



Amherst Island Wind Project **2019 Post-Construction Mortality** **Monitoring Report**

Prepared for:
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NATURAL RESOURCE SOLUTIONS INC.

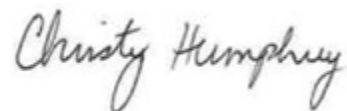
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**Amherst Island Wind Project
2019 Post-Construction Mortality Monitoring Report**

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Executive Summary

Natural Resource Solutions Inc. was retained to conduct three (3) years of post-construction monitoring at the operational Amherst Island Wind Project, located in Loyalist Township, Lennox and Addington County, Ontario. This wind energy facility has a generating capacity of 74.3MW and consists of 26 turbines in an agricultural landscape dominated by pasture. Occasional wooded habitats, wetlands, and aquatic features are also present in the areas surrounding the project infrastructure. This report provides the detailed methods and results from the first year of post-construction monitoring for bird and bat mortality conducted at the Amherst Island Wind Project in 2019.

During twice weekly searches from May 1 to October 31, 2019, a total of 28 bird mortalities were documented within the search areas around the subset of 10 turbines. Observed bird mortalities consisted mostly of landbird species considered common in the province. Using correction factors for searcher efficiency, scavenger removal, and proportion of area searched, an estimated bird mortality rate of 4.77 birds/turbine/year (1.66 birds/MW/year) was determined for the Amherst Island Wind Project. This is below the provincial threshold of 14 birds/turbine/year. No significant bird mortality events were documented.

During searches for raptor mortalities at applicable turbines, a total of three (3) raptor mortalities were documented in the search areas around the turbines. Raptor mortalities were comprised of one (1) each of Peregrine Falcon (*Falco peregrinus*), Rough-legged Hawk (*Buteo lagopus*), and American Kestrel (*Falco sparverius*). The estimated raptor mortality rate for the Amherst Island Wind Project is 0.19 raptors/turbine/year (0.07 raptors/MW/year). This is below the provincial threshold of 0.2 raptors/turbine/year.

During twice weekly searches from May 1 to October 31, 2019, a total of 35 bat mortalities were documented within the search areas around the subset of 10 turbines. Bat mortalities of both migratory and resident species were documented, including Hoary Bat (*Lasiurus cinereus*), Silver-haired Bat (*Lasionycteris noctivagans*), Eastern Red Bat (*Lasiurus borealis*), Big Brown Bat (*Eptesicus fuscus*), and Little Brown Myotis (*Myotis lucifugus*). The first three species above are considered long-distance migratory species which over-winter outside of Ontario, and accounted for 71% of the total bat mortality observations at the Amherst Island Wind Project in 2019. Using correction factors for searcher efficiency, scavenger removal, and proportion of area searched, an estimated bat mortality rate of 5.36 bats/turbine/year (1.88 bats/MW/year) was determined for the Amherst Island Wind Project. This is below the provincial threshold of 10 bats/turbine/year.

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1.0 Introduction

Natural Resource Solutions Inc. (NRSI) was retained to conduct the first year of post-construction monitoring at the operational Amherst Island Wind Project (Amherst Island WP), located in Loyalist Township in Lennox and Addington County, Ontario. The Amherst Island WP consists of 26 wind energy generating turbines with a total nameplate capacity of 74.3MW. The project area and turbine locations can be seen on Map 1.

Post-construction mortality monitoring at the Amherst Island WP in 2019 included bird and bat mortality monitoring, searcher efficiency trials, scavenger removal trials, raptor mortality monitoring and visibility class mapping of substrates searched. These surveys were conducted in accordance with provincial guidelines and project approval conditions to assess the potential impacts of this wind energy generating facility on local and migratory birds and bats.

The purpose of this report is to provide the detailed methods and results from the first year of post-construction mortality monitoring conducted at the Amherst Island WP.

For the purposes of this report, NRSI will frequently use the terms 'mortality' and 'carcass'. The term 'mortality' will refer to dead birds and bats that were found in the vicinity of turbines at the Amherst Island WP. The term 'carcass' will refer to dead birds and bats that have been placed beneath wind turbines by NRSI staff for the purposes of searcher efficiency and/or scavenger removal trials.

2.0 Mortality Monitoring Methodology

2.1 Mortality Monitoring

2.1.1 Sample Locations

For wind energy projects consisting of greater than 10 turbines, a subset of at least 30% of turbines (minimum 10 turbines) is required to be monitored (OMNR 2011a, OMNR 2011b). In accordance with these requirements, a subset of 10 turbines (38.5%) were selected by Stantec Consulting Ltd. in consultation with the Ministry of Natural Resources and Forestry (Stantec 2013). NRSI conducted mortality monitoring at this subset of 10 turbines in 2019, following the monitoring period and search frequency described below. The subset of turbines that were monitored at the Amherst Island WP in 2019 is shown on Map 1.

2.1.2 Monitoring Period and Search Frequency

NRSI biologists conducted twice weekly (3 and 4 day intervals) mortality monitoring for birds and bats at the subset of 10 turbines during the entire monitoring period of May 1 to October 31, 2019. For the purposes of this monitoring program, searches in May and June are considered to have been completed in Spring, July and August in Summer, and September and October in Fall.

Mortality monitoring specific to raptors occurred for the full duration of the year, as follows:

- Once weekly at all 26 turbines in January, February, and March (Winter 1),
- Once weekly at the 10 subset turbines in April (Winter 1),
- Twice weekly (3 and 4 day intervals) at the 10 subset turbines in May through October (Spring, Summer, and Fall, as defined above),
- Once weekly at the 10 subset turbines in November (Winter 2), and
- Once weekly at all 26 turbines in December (Winter 2).

In addition, raptor mortality monitoring was conducted once per month from May to November (inclusive) at the remaining 16 turbines.

As a result of turbine maintenance, inclement weather or other safety concerns, some turbines could not be searched on particular scheduled dates. This relatively minor

adjustment to the monitoring protocol is not expected to impact the results or conclusions presented in this report. The dates when turbines were not able to be searched are listed in Table 1.

Table 1. Summary of Regular Search Days When Turbines Could Not Be Searched (2019)

Date (2019)	Date Turbine Next Searched (2019) ¹	Turbine(s)	Rationale
December 6	December 13 ¹	S30	Turbine Maintenance
		S07, S13, S14, S28, S33	Inclement Weather

¹ Due to a variety of factors which may include the duration of turbine maintenance, weather conditions, the location of the project, and/or staff availability, this turbine could not be searched again until the next regularly scheduled search day.

2.1.3 Sample Area and Survey Duration

NRSI biologists conducted mortality searches within a 50m radius of each turbine base. Mortality searches were conducted using linear transects, spaced approximately 5m apart. Any mortality that was incidentally observed beyond the search radius was still documented, photographed, and collected, but was not included in formal calculations of estimated mortality rates. In order to maintain a consistent search effort, mortality searches followed a consistent search time throughout each month of searching. When searching all 26 turbines during January-March and December for raptor mortalities, a search time of 20 minutes per turbine was used. At the subset of 10 turbines, a search time of 20 minutes per turbine was used during the months of April and November, and 30 minutes per turbine during the months of May, June and October. In an attempt to increase the searcher efficiency values, and ultimately the accuracy of the estimated mortality rates, the search effort was increased to 40 minutes per turbine during the months of July, August, and September at the subset turbines.

2.1.4 Data Collection

During each visit to conduct mortality searches, all appropriate information was documented, including weather conditions, date, time, and observer. The mortality monitoring data collection sheet has been provided in Appendix I.

In addition to general information collected on each visit, a variety of specific information was recorded upon encountering any mortality. This detailed information collected for each mortality, as shown on the data sheet provided in Appendix I, included species (if

identifiable), sex of the individual (if identifiable), condition, estimated time since death, any apparent injuries, direction and distance from turbine base, substrate type and visibility class, and a unique mortality identification number for future reference. Specific UTM coordinates and photographs were also taken for each specimen to allow for further analysis, if necessary.

2.2 Scavenger Removal Trials

As per the *Environmental Effects Monitoring Plan for Wildlife* (EEMP, Stantec 2013) carcasses for small birds, bats and raptors were used for scavenger removal trials to determine scavenging rate. Carcasses of small birds and bats were combined into one trial applicable to both. A separate trial was conducted for raptor carcasses. Due to the difficulty in obtaining a sufficient number of fresh raptor carcasses, waterfowl carcasses were occasionally used in place of raptors as they represent similarly-sized surrogates. This minor substitution is not expected to have any material result on the annual corrected mortality rate for raptors. The monitoring program for each trial type (small birds/bats and raptors) are detailed in the sections below.

2.2.1 Small Birds and Bats

Scavenger removal trials for small birds and bats were conducted in each of the Spring, Summer, and Fall seasons of mortality monitoring. A minimum of 10 carcasses were placed in each monitoring season. No more than five (5) carcasses were placed at one time. Carcasses were placed throughout the range of habitats and substrate types being searched during each season. Species, UTM coordinates, direction and distance from turbine base, substrate, and visibility class were all noted on a data sheet during the placement of each specimen. The scavenger removal data sheet has been provided in Appendix I.

Carcasses placed included both small bird and bat specimens, with each trial consisting of at least one-third representation of each of bird and bat carcasses. Small bird carcasses included species commonly encountered in this region of the province and ranged in size from very small to moderately-sized carcasses. Migratory bat carcasses were used in each seasonal scavenger removal trial and included Hoary Bat (*Lasiurus cinereus*), Eastern Red Bat (*Lasiurus borealis*), and Silver-haired Bat (*Lasionycteris*

noctivagans). Carcasses used in scavenger removal trials were obtained from the Royal Ontario Museum and/or were collected from operational wind energy facilities within Ontario. A list of the bird and bat species used during scavenger removal trials has been provided in Appendix II.

During each scavenger removal trial, the bird and bat carcasses were left for up to 14 days and were checked at the same frequency as mortality searches, or approximately twice per week, to note any scavenging or signs of scavenger presence. Following completion of the scavenger removal trials after 14 days, all remaining test carcasses were picked up and disposed of appropriately.

2.2.2 Raptors

Scavenger removal trials for raptors were conducted in three (3) grouped seasons: a) Winter 1, from January through April; b) combined Spring/Summer/Fall, from May through October; and c) Winter 2, November and December. A minimum of 10 carcasses were placed in each monitoring season as defined above, with the exception of Winter 2. For the Winter 2 SC trails, a sufficient quantity of fresh large bird carcasses was unavailable for the full season, therefore only 4 carcasses were placed. Given the short duration of the Winter 2 season, this avoids bias in the trial resulting from saturation of large carcasses available to scavengers. This same rationale was used to combine the Spring/Summer/Fall seasons for the raptor scavenger removal trial, particularly given that large bird mortality rates are typically low and thus the availability of large bird carcasses on the landscape would typically be low.

No more than two (2) raptor carcasses were placed at one time, and no more than two (2) carcasses were placed at any single turbine during each seasonal trial. These measures were also taken to avoid bias in the trial resulting from saturation of carcasses available to scavengers. Carcasses were placed throughout the range of habitats and substrate types being searched during each season. Species, UTM coordinates, direction and distance from turbine base, substrate, and visibility class were all noted on a data sheet during the placement of each specimen. The scavenger removal data sheet has been provided in Appendix I. A list of the large bird species used during scavenger removal trials has been provided in Appendix II.

During each scavenger removal trial, the large bird carcasses were left for up to four (4) search events during each season (4 weeks in Winter 1 and Winter 2, and 14 days in the Spring/Summer/Fall). Carcasses were checked at the same frequency as mortality searches, or approximately once per week in the Winter seasons and twice per week in the Spring/Summer/Fall season, to note any scavenging or signs of scavenger presence.

2.3 Searcher Efficiency Trials

In conjunction with mortality searches, NRSI conducted searcher efficiency trials on staff that conducted mortality searches at the Amherst Island WP. Similar to scavenger removal trials, searcher efficiency trials must be conducted at least once per season (Spring, Summer, and Fall), and on each searcher and in each visibility class that was searched during that season. In order to obtain more accurate results and to account for seasonal changes in groundcover, weather, or soil saturation, NRSI conducted monthly searcher efficiency trials from May to October. In accordance with the EEMP (Stantec 2013), searcher efficiency trials were not conducted for raptor mortalities, as large birds are highly visible and searcher efficiency results would be expected to approach very closely to 1.0, if not 1.0 itself.

During each trial, searchers were tested without their knowledge through the placement of a minimum of 10 test carcasses per visibility class searched by the searcher, with no more than three (3) carcasses placed on any one date. In one instance, the searcher was tested with nine (9) carcasses in one visibility class searched and 11 carcasses in the other visibility class searched, instead of 10 in each. In each of June and July, one of the searchers was not able to be tested with 10 carcasses in each visibility class due to the number of their search days being less than the number of days required for a full trial sample, considering that no more than three (3) carcasses can be placed on any one search date. Therefore, the searcher was tested with as many carcasses as possible, including eight (8) carcasses in one visibility class and (7) in the other, in each month. These very minor deviations are not expected to have any material result on the annual corrected mortality rate for birds or bats.

Carcasses were placed randomly within the search radius throughout the subset of 10 turbines at the Amherst Island WP. Distance and direction from turbine base, visibility class and substrate type, and UTM coordinates were recorded for each test carcass placed. Trial carcasses were unmarked to avoid introducing bias by alerting the searcher to the trial. Each found specimen was later compared to the total number of carcasses placed within the project area and the locations of their placement. The data sheet used for searcher efficiency trials has been provided in Appendix I.

In order to meet the understood intent of the MNRF guidelines (OMNR 2011a, OMNR 2011b) to limit searcher bias, NRSI has not physically marked carcasses at this project, as it could influence the results of the trial and alert the searcher to an ongoing searcher efficiency trial. Instead, NRSI biologists collect detailed location information of the trial carcass with date placed, UTM coordinates, distance and direction from the turbine, and mapped location of the carcass. All collected carcasses are compared to these detailed date, location and species information to distinguish between trial carcasses and actual turbine mortalities. These steps have been taken to ensure that the location of the carcass, along with species information, is well documented for future reference if there is uncertainty about whether or not an observed carcass is a turbine-related fatality or a trial carcass.

Searcher efficiency carcasses included both bird and bat specimens, with each trial consisting of at least one-third representation of each of bird and bat carcasses. Bird carcasses used in the searcher efficiency trials included species commonly encountered in this region of the province and varied in size from very small to moderate-sized carcasses. Bat carcasses used during searcher efficiency trials consisted of the three (3) migratory species known to occur within Ontario, including Hoary Bat, Eastern Red Bat, and Silver-haired Bat. Carcasses used in searcher efficiency trials were obtained from the Royal Ontario Museum and/or were collected from operational wind energy facilities within Ontario. A list of the bird and bat species used during searcher efficiency trials has been provided in Appendix III.

2.4 Proportion of Area Searched

Following Ministry of Natural Resources and Forestry (MNRF) guidelines, visibility class maps were completed by searchers at a minimum frequency of once per season (OMNR 2011a, OMNR 2011b). Due to the potential for changing conditions, NRSI completed visibility class maps once per month from May to October to provide additional information to increase the accuracy of the estimated mortality rates. Visibility class maps were completed once per season in each of Winter 1 and Winter 2 due to the lack of vegetation growth and relatively consistent search substrates.

Visibility class mapping was completed for the 50m search radius at each turbine. This mapping categorized habitats according to visibility classes recommended by the MNRF (OMNR 2011a, OMNR 2011b). These include visibility classes 1 through 4, in addition to areas which may be deemed “unsearchable”, such as aquatic features, areas deemed safety hazards, or other areas where searching was not possible. Mapping of these visibility classes within each search radius was conducted and calculated as per a repeatable methodology using a combination of these visibility class field maps, review of aerial photographs, and use of Geographic Information System (GIS) software. The data sheet used to record visibility class mapping has been provided in Appendix I.

In order to help increase the accuracy of searcher efficiency rates and minimize the influence of the proportion of area searched on the bird and bat mortality estimates, the majority of the search radii at the subset of 10 turbines were maintained at visibility class 1 and 2 through occasional plowing and mowing, as needed, for the duration of the growing season (May through October), wherever possible. Small areas of other visibility classes were present, particularly near the limit of the 50m radii. When small and temporary areas of other visibility classes were present, they were searched thoroughly until scheduled vegetation maintenance could occur. As a result, the majority of the 50m radius at each turbine was searched for the duration of the 2019 monitoring period. Some areas were determined to be visibility classes that were not searched as part of this monitoring program (i.e. visibility classes 3 and 4). In these cases, the appropriate proportion of area searched was calculated and used for final mortality estimates. Visibility class maps of each turbine in each month are provided in Appendix VII.

Maintenance of the 50m search radius was only completed when necessary to maintain appropriate visibility and it also followed a strict schedule developed by NRSI that ensured the maintenance activities were completed in a manner to minimize or eliminate any potential negative influence on the mortality monitoring, searcher efficiency trials and scavenger removal trials. The maintenance of the search areas is expected to increase the accuracy of the final estimated mortality rates at the Amherst Island WP.

3.0 Scavenger Removal Trial Results

Scavenging activity at the Amherst Island WP was low to moderate throughout the monitoring seasons, with higher scavenging activity noted in Winter 2, specific to raptors. Details on the date placed, species, distance and direction from turbine, visibility class, dates checked and by whom, UTM coordinates, and whether the carcass was scavenged have been provided in Appendix II.

3.1 Small Birds and Bats

Table 2 shows the results from the seasonal scavenger removal trials conducted for small birds and bats at the Amherst Island WP.

Table 2. Number of Carcasses Remaining During Scavenger Removal Trials for Small Birds and Bats at the Amherst Island WP (2019)

Number of Carcasses Remaining					
Spring Trial (May/June)					
Turbine	Visit 0	Visit 1	Visit 2	Visit 3	Visit 4
S01	1	1	1	1	1
S05	1	1	1	1	1
S07	1	1	1	1	1
S14	1	1	1	0	0
S28	1	1	1	1	1
S02	1	0	0	0	0
S03	1	0	0	0	0
S18	1	1	1	0	0
S22	1	1	1	1	1
S36	1	1	0	0	0
Total	10	8	7	5	5
Summer Trial (July/August)					
Turbine	Visit 0	Visit 1	Visit 2	Visit 3	Visit 4
S02	1	0	0	0	0
S18	1	0	0	0	0
S07	1	1	1	1	1
S14	1	0	0	0	0
S36	1	1	1	1	1
S28	1	1	1	1	0
S01	1	1	1	1	1
S03	1	1	1	1	1
S22	1	1	1	1	1
S05	1	1	1	0	0
S18	1	1	1	1	1

Number of Carcasses Remaining					
S36	1	1	1	1	1
Total	12	9	9	8	7
Fall Trial (September/October)					
Turbine	Visit 0	Visit 1	Visit 2	Visit 3	Visit 4
S01	1	1	0	0	0
S03	1	1	1	1	1
S05	1	1	1	1	1
S22	1	1	0	0	0
S36	1	1	1	0	0
S02	1	0	0	0	0
S07	1	1	1	1	1
S14	1	1	1	0	0
S18	1	0	0	0	0
S28	1	1	1	1	1
Total	10	8	6	4	4

To address the small bird/bat scavenger removal rates for each of the specific monitoring periods, NRSI has used the following equation recommended by the MNRF:

$$Sc = \frac{n_{\text{visit1}} + n_{\text{visit2}} + n_{\text{visit3...}}}{n_{\text{visit0}} + n_{\text{visit1}} + n_{\text{visit2...}}}$$

Sc: proportion of carcasses not removed by scavengers

n_{visit0} : total number of carcasses placed

$n_{\text{visit1}} - n_{\text{visit3...}}$: numbers of carcasses remaining on visits 1 through 3 etc.

Using the scavenger removal results presented in Table 2, and the equation provided by the MNRF, the seasonal scavenger removal rates for small birds and bats have been determined as follows:

$$\begin{aligned} SC_{\text{Spring}} &= (8 + 7 + 5 + 5) / (10 + 8 + 7 + 5) \\ &= 25 / 30 \\ &= \mathbf{0.83} \end{aligned}$$

$$\begin{aligned} SC_{\text{Summer}} &= (9 + 9 + 8 + 7) / (12 + 9 + 9 + 8) \\ &= 33 / 38 \\ &= \mathbf{0.87} \end{aligned}$$

$$\begin{aligned} SC_{\text{Fall}} &= (8 + 6 + 4 + 4) / (10 + 8 + 6 + 4) \\ &= 22 / 28 \\ &= \mathbf{0.79} \end{aligned}$$

The above scavenger removal rates represent the proportion of carcasses still remaining from one visit to the next. These values generally represent low to moderate scavenging activity throughout the year. The above scavenger removal rates for small birds/bats will be used to calculate the estimated small bird/bat mortality rates in Sections 6.0 and 8.0.

3.2 Raptors

Table 3 shows the results from the seasonal scavenger removal trials conducted for raptors at the Amherst Island WP.

Table 3. Number of Carcasses Remaining During Scavenger Removal Trials for Raptors at the Amherst Island WP (2019)

Number of Carcasses Remaining					
Winter 1 Trial (January-April)					
Turbine	Visit 0	Visit 1	Visit 2	Visit 3	Visit 4
S30	1	1	1	1	1
S33	1	1	1	1	1
S13	1	1	1	1	1
S34	1	1	1	1	1
S19	1	1	1	1	1
S19	1	1	0	0	0
S27	1	1	1	1	1
S09	1	1	1	1	1
S29	1	1	1	1	1
S16	1	1	1	1	1
Total	10	10	9	9	9
Spring/Summer/Fall Trial (May-October)					
Turbine	Visit 0	Visit 1	Visit 2	Visit 3	Visit 4
S36	1	1	1	1	0
S22	1	1	1	1	1
S05	1	1	1	1	1
S01	1	1	1	1	1
S28	1	1	0	0	0
S01	1	1	1	1	1
S02	1	1	1	1	1
S14	1	1	1	1	0
S07	1	1	1	1	1
S18	1	1	1	1	1
S05	1	1	1	1	1
S22	1	1	1	1	1
Total	12	12	11	11	9
Winter 2 Trial (November-December)					

Number of Carcasses Remaining					
Turbine	Visit 0	Visit 1	Visit 2	Visit 3	Visit 4
S18	1	1	0	0	0
S28	1	0	0	0	0
S04	1	0	0	0	0
S11	1	1	1	1	0
Total	4	2	1	1	0

Using the scavenger removal results presented in Table 3, and the equation provided by the MNRF, the seasonal scavenger removal rates for raptors have been determined as follows:

$$\begin{aligned}
 SC_{\text{Winter1}} &= (10 + 9 + 9 + 9) / (10 + 10 + 9 + 9) \\
 &= 37 / 38 \\
 &= \mathbf{0.97}
 \end{aligned}$$

$$\begin{aligned}
 SC_{\text{Spring/}} &= (12 + 11 + 11 + 9) / (12 + 12 + 11 + 11) \\
 \text{Summer/Fall} &= 43 / 46 \\
 &= \mathbf{0.93}
 \end{aligned}$$

$$\begin{aligned}
 SC_{\text{Winter2}} &= (2 + 1 + 1 + 0) / (4 + 2 + 1 + 1) \\
 &= 4 / 8 \\
 &= \mathbf{0.50}
 \end{aligned}$$

The above scavenger removal rates represent the proportion of raptor carcasses still remaining from one visit to the next. These values generally represent very low scavenging activity in the first winter (Winter 1; January through April) as well as the Spring/Summer/Fall. However, in the second winter (i.e. Winter 2; November-December), scavenging of raptors was much higher. The above raptor scavenging removal rates will be used to calculate the estimated raptor mortality rates in Section 7.0.

4.0 Searcher Efficiency Trial Results

Searcher efficiency rates at the Amherst Island WP during the 2019 monitoring season were moderate in the spring season, but increased to very high in the summer and fall seasons. Results of the monthly searcher efficiency trials are summarized in Table 4. Details on the searcher and tester, species, distance and direction from turbine, habitat, substrate, visibility class, UTM coordinates, and whether the carcass was found or scavenged have been provided in Appendix III.

Table 4. Results of Searcher Efficiency Trials at the Amherst Island WP (2019)

Searcher	Carcasses Found	Carcasses Placed	Carcasses Scavenged	Searcher Efficiency	Proportion of Turbines Searched
Spring 2019					
Searcher B	12	20	0	0.60	0.79
Searcher D ¹	N/A	N/A	N/A	0.60	0.03
Searcher E	9	15	0	0.60	0.18
Summer 2019					
Searcher B	18	22	3	0.95	0.75
Searcher E	12	15	0	0.80	0.08
Searcher F ¹	N/A	N/A	N/A	0.88	0.06
Searcher G ¹	N/A	N/A	N/A	0.88	0.11
Fall 2019					
Searcher B	20	20	0	1.00	0.94
Searcher G ¹	N/A	N/A	N/A	1.00	0.06

¹ These searchers searched on no more than four (4) dates in the identified season and therefore could not be properly tested for searcher efficiency following MNRF guidelines (i.e. seven (7) search days are required for proper testing in two (2) visibility classes as no more than three (3) carcasses can be placed at a time). In these circumstances, the average result obtained by the other regular searchers in each month was used for these searchers.

Based on the information collected during detailed searcher efficiency trials and the equations recommended by the MNRF, overall searcher efficiency (SeO) was calculated for each of the monitoring months as follows:

$$Se = \frac{\text{number of test carcasses found}}{\text{number of test carcasses placed} - \text{number of carcasses scavenged}}$$

$$SeO = Se_A(\text{proportion of turbines searched}) + Se_B(\text{proportion of turbines searched})...$$

$$SeO_{\text{Spring}} = 0.60 (0.79) + 0.60 (0.03) + 0.60 (0.18) = \mathbf{0.60}$$

$$SeO_{\text{Summer}} = 0.95 (0.75) + 0.80 (0.08) + 0.88 (0.06) + 0.88 (0.11) = \mathbf{0.93}$$

$$SeO_{\text{Fall}} = 1.00 (0.94) + 1.00 (0.06) = \mathbf{1.00}$$

These searcher efficiency values represent moderate to high searcher efficiency rates, largely due to the additional search effort and steps to keep the search areas in low visibility classes (i.e. clear and more easily searched) to increase the accuracy of the estimated mortality rate. These values will be used to calculate the estimated avian and bat mortality rates in Sections 6.0 and 8.0.

5.0 Proportion of Area Searched

Visibility class mapping was completed every month from May to October within the 50m search radius of each of the 10 subset turbines in order to reflect any changes in groundcover and resulting visibility classes. In addition, visibility class mapping was completed as often as necessary in the winter months to characterize the remaining turbines in the project which contributed to the estimate of raptor mortality, resulting in mapping completed once in Winter 1 and once in Winter 2 for all turbines. All visibility class maps have been provided in Appendix VII.

Visibility class mapping was used in combination with GIS software to determine the specific area and sizes of each of the applicable visibility classes identified with the turbine search areas. During the 2019 monitoring program, NRSI biologists searched all areas of visibility class 1 and 2 during the months of May through November, which is reflected in the proportion of area searched (Ps) calculated for all 10 turbines during each of those monitoring months, as shown in Table 5. During the winter months, all visibility classes were searched, with the exception of some unsearchable areas including woodlands, watercourses or other large obstacles. These values will be used to calculate the estimated avian, raptor and bat mortality rates in Sections 6.0, 7.0, and 8.0, respectively.

Table 5. Proportion of Area Searched at the Amherst Island WP (2019)

Month	Total Searched Area (m ²)	Number of Turbines Searched Regularly	Total Search Radius (m ²)	Proportion of Area Searched (Ps)
January	203,939	26	204,100	1.00
February	203,939	26	204,100	1.00
March	203,939	26	204,100	1.00
April	78,500	10	78,500	1.00
May	76,375	10	78,500	0.97
June	76,799	10	78,500	0.98
July	67,051	10	78,500	0.85
August	67,094	10	78,500	0.85
September	72,836	10	78,500	0.93
October	77,997	10	78,500	0.99
November	78,093	10	78,500	0.99
December	203,939	26	204,100	1.00

6.0 Avian Mortality Results

6.1 Avian Mortalities

During the 2019 mortality monitoring period at the Amherst Island WP, NRSI biologists found 28 bird mortalities within the 50m radius of the monitoring subset of 10 turbines between May and October. The majority of the mortalities that could be identified to the species level were confirmed to be small landbirds or shorebirds, generally representing a variety of common species for this area of the province. The most commonly observed mortalities were of Red-eyed Vireo (*Vireo olivaceus*) (n=4), Wilson's Snipe (*Gallinago delicata*) and Killdeer (*Charadrius vociferous*) (n=3 each). Three (3) bird mortalities could not be identified to the species level due to advanced decomposition and/or scavenging activity, but were identified as passerine species (i.e. non-raptors).

A list of avian mortalities observed during the carcass searches has been provided in Appendix IV.

6.2 Temporal Distribution of Avian Mortalities

Bird mortalities were generally observed throughout the year, although the greatest number of mortalities was observed in the spring (May/June), with the greatest number of mortalities specifically documented in May (n=7). The distribution of avian mortalities by date can be seen in Figure 1.

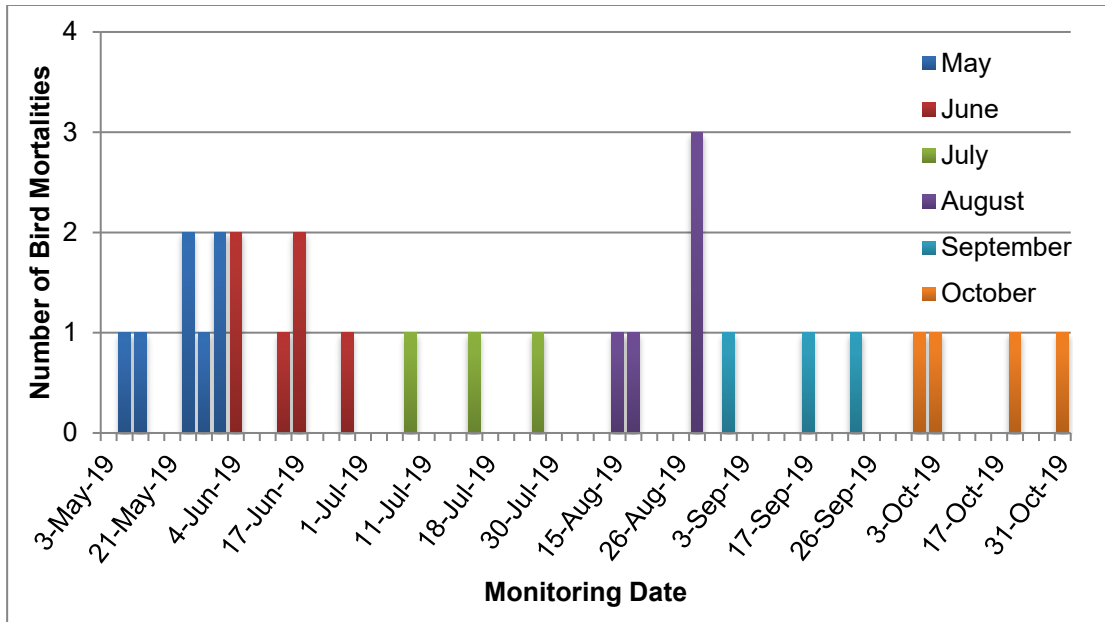


Figure 1. Bird Mortalities Observed by Date at the Amherst Island WP (2019)

6.3 Spatial Distribution of Avian Mortalities

Avian mortalities were observed at all 10 subset turbines and were relatively evenly distributed across turbines (see Figure 2 below), ranging from one (1) at multiple turbines to five (5) at S28. Details regarding each avian mortality, including date, time, location, and species, are summarized in Appendix IV and turbine maps identifying the location of each observed mortality have been provided in Appendix VI.

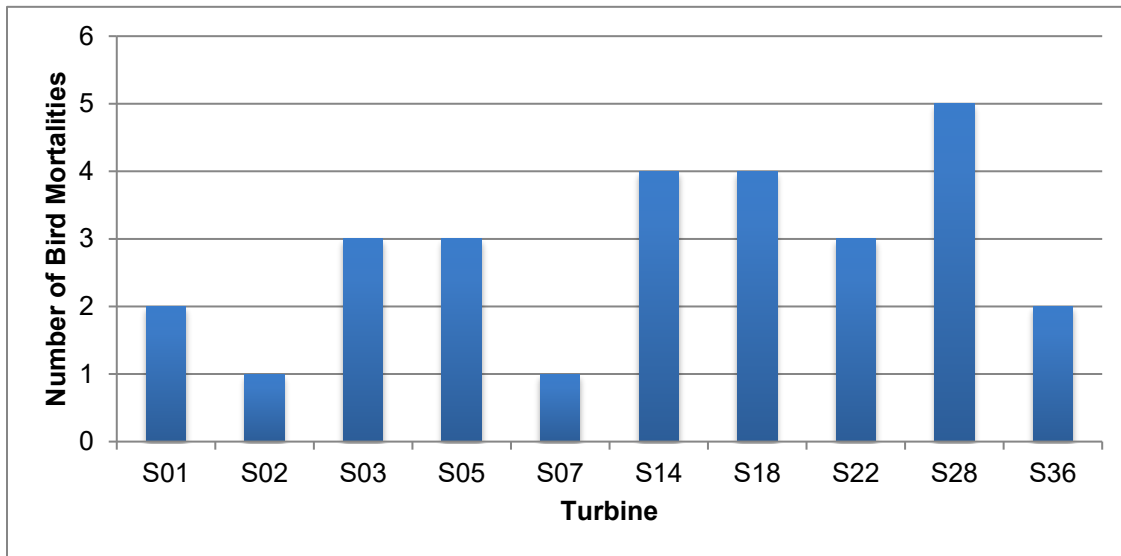


Figure 2. Bird Mortalities Observed by Turbine at the Amherst Island WP (2019)

6.4 Corrected (Estimated) Avian Mortality

In accordance with the *Bird and Bird Habitats: Guidelines for Wind Power Projects* (OMNR 2011b), estimated avian mortality rates have been presented by individual turbines or turbine group. Since searcher efficiency and scavenger removal rates have been collected specifically for the 10-turbine subset for birds, NRSI is presenting estimated mortality rates by this same turbine group.

Based on the field observations at the Amherst Island WP, NRSI biologists have compiled the searcher efficiency trial results, scavenger removal trial results, proportion of area searched, and direct mortality observations into an equation that will be used to estimate the total avian mortality at the Amherst Island WP in 2019. The equation recommended by the MNRF is found below:

$$C = c / (Se*Sc*Ps)$$

C: Corrected (Estimated) Mortality Rate
c: actual observed mortalities
Se: overall searcher efficiency
Sc: proportion of remaining carcasses
Ps: proportion of area searched

Using the equation and variables described above, the estimated avian mortality rates by month have been presented below:

$$\begin{aligned} C_{\text{May}} &= 7 / (0.60*0.83*0.97) = 7 / 0.4831 = \mathbf{14.49 \text{ birds}} \\ &= \mathbf{1.45 \text{ birds/turbine}} \text{ (0.51 birds/MW)} \\ C_{\text{June}} &= 6 / (0.60*0.83*0.98) = 6 / 0.4880 = \mathbf{12.30 \text{ birds}} \\ &= \mathbf{1.23 \text{ birds/turbine}} \text{ (0.43 birds/MW)} \\ C_{\text{July}} &= 3 / (0.93*0.87*0.85) = 3 / 0.6877 = \mathbf{4.36 \text{ birds}} \\ &= \mathbf{0.44 \text{ birds/turbine}} \text{ (0.15 birds/MW)} \\ C_{\text{August}} &= 5 / (0.93*0.87*0.85) = 5 / 0.6877 = \mathbf{7.27 \text{ birds}} \\ &= \mathbf{0.73 \text{ birds/turbine}} \text{ (0.25 birds/MW)} \\ C_{\text{September}} &= 3 / (1.00 *0.79*0.93) = 3 / 0.7347 = \mathbf{4.08 \text{ birds}} \\ &= \mathbf{0.41 \text{ birds/turbine}} \text{ (0.14 birds/MW)} \\ C_{\text{October}} &= 4 / (1.00*0.79*0.99) = 4 / 0.7821 = \mathbf{5.11 \text{ birds}} \\ &= \mathbf{0.51 \text{ birds/turbine}} \text{ (0.18 birds/MW)} \end{aligned}$$

Using the appropriate variables and equations recommended by the MNRF, the corrected (estimated) avian mortality at the Amherst Island WP in 2019 was calculated. Table 6 shows the monthly estimated mortality rates as well as the overall estimated avian mortality rate at the Amherst Island WP, as calculated by turbine group.

Table 6. Corrected Bird Mortality Rates Based on Mortality Monitoring at the Amherst Island WP (2019)

Month (2019)	Observed Avian Mortalities	Corrected Mortality (birds/turbine)	Corrected Mortality (birds/MW)
May	7	1.45	0.51
June	6	1.23	0.43
July	3	0.44	0.15
August	5	0.73	0.25
September	3	0.41	0.14
October	4	0.51	0.18
TOTAL	28	4.77	1.66

Based on the information collected during the 2019 post-construction monitoring period, the anticipated impact of this facility on birds is characterized by an estimated mortality rate of **4.77 birds/turbine/year** (1.66 birds/MW/year), as calculated by turbine group.

6.5 Mortalities Documented Near Significant Bird Habitats

Based on the proximity of the project to several significant bird habitats, additional consideration is required for turbines within 120m of any significant bird habitat to evaluate potential effects to nearby habitats. Table 7 below outlines the turbines located within 120m of significant bird habitats, the number of total bird mortalities documented at those turbines, and the total number of habitat-specific bird mortalities documented. Bird Significant Wildlife Habitats within 120m of the Amherst Island WP are shown on Map 2.

Table 7. Bird Mortalities Documented at Turbines within 120m of Significant Bird Habitat

Habitat Name	Turbines Within 120m ¹	Total Bird Mortalities	Target Bird Mortalities ²
Landbird Migratory Stopover Area <i>Migratory Songbirds and Raptors, April-May, August-October</i>			
ML1	S03, S09	4	1
ML2	S05	3	1
ML3	S36	2	2

Habitat Name	Turbines Within 120m ¹	Total Bird Mortalities	Target Bird Mortalities ²
ML4	S02, S07, S14, S18, S26	10	6
ML5	S26	0	0
Marsh Bird Breeding Habitat <i>Marsh Bird Indicator Species, May-June</i>			
MBB1	S36	2	0
Woodland Area-sensitive Bird Breeding Habitat <i>Woodland Area-sensitive Indicator Species, Breeding Bird Period, Late May – Early July</i>			
ABB1	S03, S09	3	0
Open Country Bird Breeding Habitat <i>Open Country Indicator Species, Breeding Bird Period, Late May – Early July</i>			
OCB2	S03, S05, S09, S11, S16, S20, S34	7	0
OCB3	S01, S22, S04, S29, S31	5	0
OCB4	S31	0	0
OCB5	S36, S19, S21, S37	5	0
OCB6	S02, S07, S14, S27, S37	6	0
OCB7	S18, S13, S26, S30	5	0
OCB8	S28	5	0
Shrub/Early Successional Bird Breeding Habitat <i>Shrub/Early Successional Indicator Species, Breeding Bird Period, Late May – Early July</i>			
SSB4	S07, S18, S13	5	0
SSB5	S22	3	0

1: Turbines in bold font are those searched twice-weekly from May to October for bird mortalities.

2: Target species are indicator species that are found during the appropriate seasons, as defined by the DRAFT Significant Wildlife Habitat Ecoregion 6E Criterion Schedule (OMNR 2012), which have been used to determine significance of habitats during pre-construction surveys.

No target species (i.e. indicator species during the appropriate significant seasonality for the Significant Wildlife Habitat) mortalities were documented at any turbines within 120m of significant Marsh Bird Breeding Habitat, Woodland Area-sensitive Bird Breeding Habitat, Open Country Bird Breeding Habitat, or Shrub/Early Successional Bird Breeding Habitat. However, some mortalities of migratory landbirds were documented during migration at turbines located within 120m of significant Landbird Migratory Stopover Areas, including:

- ML1: One (1) migratory raptor during the migratory period across the two (2) turbines located within 120m of the habitat (American Kestrel, *Falco sparverius*, May 21);
- ML2: One (1) migratory songbird during the migratory period at the one (1) turbine located within 120m of the habitat (Red-eyed Vireo, October 1);
- ML3: Two (2) migratory songbirds during the migratory period at the one (1) turbine located within 120m of the habitat (Palm Warbler, *Setophaga palmarum*, October 3 and Golden-crowned Kinglet, *Regulus satrapa*, October 31); and

- ML4: Six (6) migratory songbirds during the migratory period across the five (5) turbines located within 120m of the habitat (Warbler sp., May 10; American Redstart, *Setophaga ruticilla*, May 31; Purple Martin, *Progne subis*, August 15; Bobolink, *Dolichonyx oryzivorus*, August 19; and two (2) Cedar Waxwings, *Bombycilla cedrorum*, August 29).

Overall, no more than six (6) target bird mortalities were observed at any turbine within 120m of a Significant Wildlife Habitat.

7.0 Raptor Mortality Results

7.1 Raptor Mortalities

Mortality searches for raptors were conducted once weekly in January, February, March, and December at all 26 turbines. In addition, searches were conducted twice weekly in conjunction with avian and bat mortality searches from May through October and once weekly in April and November at the subset of 10 turbines. These surveys resulted in the observation of three (3) raptor mortalities at the Amherst Island WP, including one (1) mortality of each of Peregrine Falcon (*Falco peregrinus*), Rough-legged Hawk (*Buteo lagopus*) and American Kestrel.

Raptor mortalities were documented in January (n=2) and May (n=1), and were each observed at a different turbine, including one (1) at each of S03, S04 and S05.

Of the three (3) raptor mortalities documented by NRSI biologists during the 2019 monitoring season, two (2) of these, Peregrine Falcon and Rough-legged Hawk, are provincially-tracked species in Ontario; however, the Natural Heritage Information Centre (NHIC) specifically notes that only breeding occurrences of each species are to be tracked (MNR 2019). Since both mortalities were documented in January, well outside the breeding season, these occurrences have been considered to represent untracked records of these species and have therefore been considered the same as untracked raptor mortalities in the calculation of mortality estimates below.

A list of raptor mortalities observed during the carcass searches has been provided in Appendix IV, and turbine maps identifying the location of each observed mortality have been provided in Appendix VI.

7.2 Corrected (Estimated) Raptor Mortality

Using an assumed searcher efficiency value of 1.00 along with the compiled seasonal scavenger removal trial results for raptors, the proportion of area searched for January and May respectively (the months when raptor mortalities occurred), and direct mortality observations, the estimated raptor mortality rate is as follows:

$$C_{\text{January}} = 2 / (1.00 * 0.97 * 1.00) = 2 / 0.9700 = \mathbf{2.06 \text{ raptors}}$$

$$= 2.06 \text{ raptors} / 26 \text{ turbines} = \mathbf{0.08 \text{ raptors/turbine}}$$

$$= 2.06 \text{ raptors} / 74.3\text{MW} = 0.03 \text{ raptors/MW}$$

$$C_{\text{May}} = 1 / (1.00 * 0.93 * 0.97) = 1 / 0.9021 = \mathbf{1.11 \text{ raptors}}$$

$$= 1.11 \text{ raptors} / 10 \text{ turbines} = \mathbf{0.11 \text{ raptors/turbine}}$$

$$= 1.11 \text{ raptors} / 28.58\text{MW} = 0.04 \text{ raptors/MW}$$

Based on the information collected during the 2019 post-construction monitoring period, the anticipated impact of this facility on raptors is characterized by an estimated mortality rate of **0.19 raptors/turbine/year** (0.07 raptors/MW/year).

7.3 Monthly Raptor Surveys

Monthly mortality searches for raptors were conducted from May to November at the turbines which are not included in the subset of 10 turbines regularly monitored during that period. These monthly searches resulted in no additional raptor mortalities documented at the Amherst Island WP.

7.4 Mortalities Documented Near Significant Raptor Habitats

Based on the proximity of the project to significant raptor wintering area habitat, additional consideration is required for turbines within 120m of any significant bird habitat to evaluate potential effects to nearby habitats. Table 8 outlines the number of raptor mortalities documented at each turbine found within 120m of significant raptor habitat at the Amherst Island WP in 2019.

Table 8. Raptor Mortalities Documented at Turbines within 120m of Significant Raptor Habitat

Habitat Name	Turbines Within 120m ¹	Total Documented Raptor Mortalities	Target Raptor Mortalities ²
Raptor Wintering Area Habitat <i>Overwintering Raptors, January -March, November-December</i>			
RWA2	S03, S05 , S09, S11, S16, S20, S34	2	0
RWA3	S01, S22 , S04, S29, S31	1	1
RWA4	S31	0	0
RWA5	S36 , S19, S21, S37	0	0
RWA6	S02, S07, S14, S18 , S13, S26, S27, S30, S37	0	0
RWA7	S28 , S26, S33	0	0

¹: Turbines in bold font are those searched once-weekly in April, twice-weekly from May to October, and once-weekly in November for raptor mortalities.

2: Target species are indicator species that are found during the appropriate seasons, as defined by the DRAFT Significant Wildlife Habitat Ecoregion 6E Criterion Schedule (OMNR 2012), which have been used to determine significance of habitats during pre-construction surveys.

Only one (1) target raptor mortality (i.e. an indicator species during the appropriate season) was documented at the Amherst Island WP. This observation was a Rough-legged Hawk found on January 15, 2019, which is during the seasonality associated with the significant raptor wintering area (RWA3).

8.0 Bat Mortality Results

8.1 Bat Mortalities

During the 2019 mortality monitoring period at the Amherst Island WP, NRSI biologists documented 35 bat mortalities within the 50m radius of the subset of 10 turbines searched. In addition, one (1) live Eastern Red Bat (*Lasiurus borealis*) and one (1) live Silver-haired Bat (*Lasionycteris noctivagans*) were encountered while completing mortality monitoring at the subset of 10 turbines. Neither bat showed any visible signs of injury and both appeared to behave normally. As a result, the bats were moved outside of the 50m search radius and placed on nearby trees. In the case of the Eastern Red Bat, a biologist returned to the relocation site the following day to check on the Eastern Red Bat and noted the bat was not present. Upon placing on a nearby tree, the Silver-haired Bat flew away immediately. As these bats are assumed to have recovered, they have not been included in the calculation of estimated mortality rates below.

Bat mortalities observed by NRSI biologists represented five (5) different species, including the resident species Big Brown Bat (*Eptesicus fuscus*) and Little Brown Myotis (*Myotis lucifugus*), as well as all three (3) long-distance migratory species; Hoary Bat, Eastern Red Bat, and Silver-haired Bat. The most abundant species observed was Eastern Red Bat (n=10), followed by Big Brown Bat (n=9), Hoary Bat (n=9), Silver-haired Bat (n=6) and Little Brown Myotis (n=1). Observed mortalities of the three (3) migratory bat species combine to represent 71% of all documented mortalities.

A detailed examination of bat mortalities at the Amherst Island WP is included in the following sections. Detailed information regarding each bat mortality observed during carcass searches has been provided in Appendix V.

8.2 Temporal Distribution of Bat Mortalities

Bat mortalities were observed throughout the monitoring period between late May and mid- to late September, but were most commonly observed during July (n=10) and August (n=17), which combined to account for 77% of all bat mortalities. No more than two (2) bat mortalities were documented on a given search day (see Figure 3).

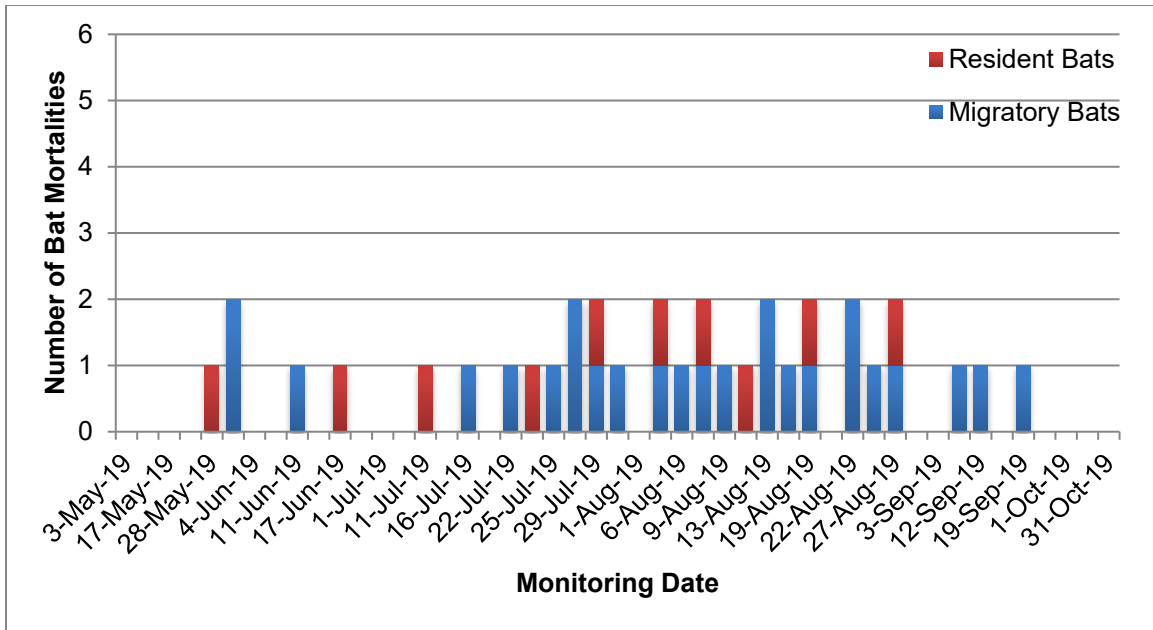


Figure 3. Bat Mortalities Observed by Date at the Amherst Island WP (2019)

Patterns of migratory bat mortalities appear to be generally consistent with the expected migratory time periods for these species, with increases in migratory bat mortalities during the mid- to late-summer. Overall, bat mortality was most commonly observed during the months of July and August, corresponding to the onset of the volant period for juvenile bats (July) and the start of the summer swarming and fall migration periods for bats (late July and August).

8.3 Spatial Distribution of Bat Mortalities

Bat mortalities were observed at nine (9) of the 10 subset turbines at the Amherst Island WP in 2019. There were no bat mortalities observed at S22. The number of mortalities observed at the remaining nine (9) turbines varied, ranging from one (1) mortality at S28 to seven (7) mortalities at S05 and S36 (Figure 4).

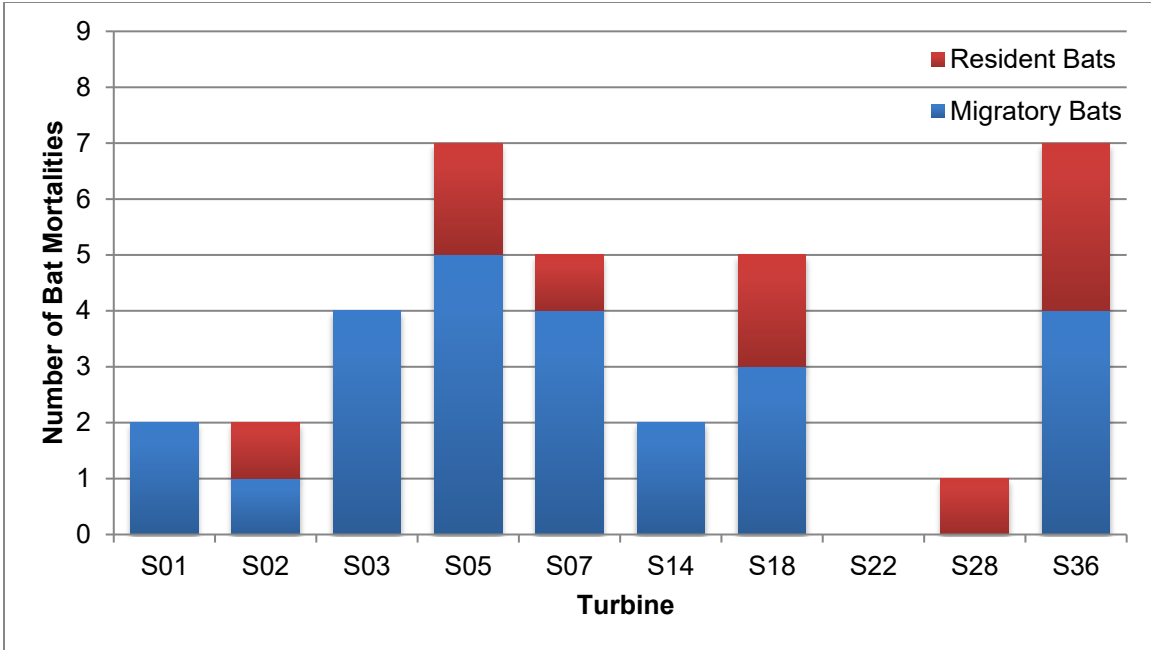


Figure 4. Bat Mortalities Observed by Turbine at the Amherst Island WP (2019)

Distance and direction of bat mortalities from each of the turbine bases were also documented for each observed mortality. Bat mortalities were found throughout the area searched by NRSI biologists, ranging in distance from 1m to 49m from the turbine base, and averaging a distance of approximately 27m from the turbine base. The overall distribution of mortalities by distance class can be seen in Figure 5. Maps identifying the locations of each observed mortality by turbine are included in Appendix VI.

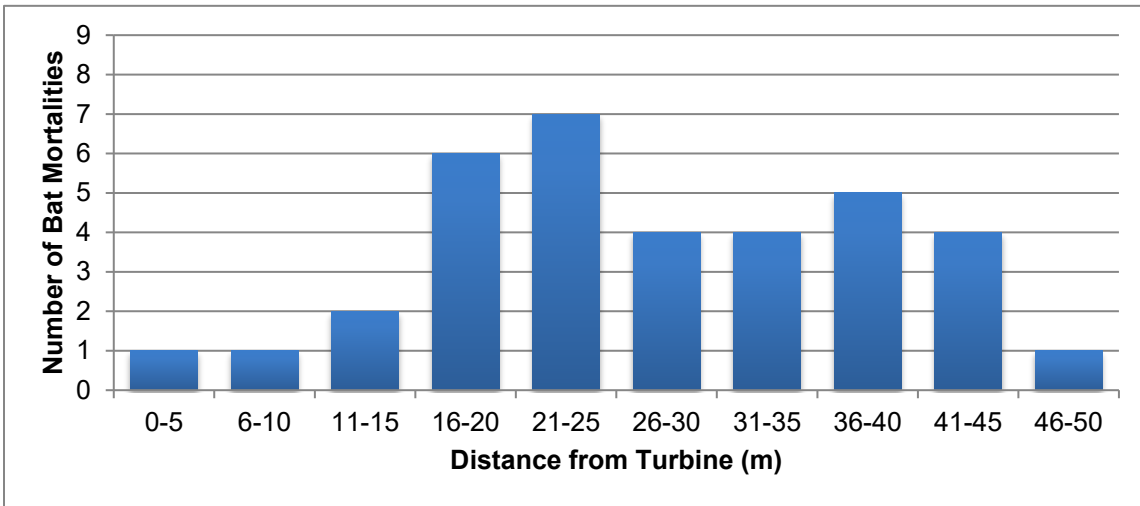


Figure 5. Bat Mortalities Observed by Distance from Turbine at the Amherst Island WP (2019)

8.4 Corrected (Estimated) Bat Mortality

Based on the field observations at the Amherst Island WP, NRSI biologists have compiled the appropriate searcher efficiency trials, scavenger removal trials, proportion of area searched, and direct mortality values in an equation that will be used to estimate the total bat mortality at the Amherst Island WP in 2019. The equation recommended by the MNRF is found below:

$$C = c / (Se * Sc * Ps)$$

C: Corrected (Estimated) Mortality Rate
c: actual observed mortalities
Se: overall searcher efficiency
Sc: proportion of remaining carcasses
Ps: proportion of area searched

Using the equation and variables described above, the estimated bat mortality rates by month have been presented below:

$$\begin{aligned} C_{\text{May}} &= 3 / (0.60 * 0.83 * 0.97) = 3 / 0.4831 = \mathbf{6.21 \text{ bats}} \\ &= \mathbf{0.62 \text{ bats/turbine}} \text{ (0.22 bats/MW)} \\ \\ C_{\text{June}} &= 2 / (0.60 * 0.83 * 0.98) = 2 / 0.4880 = \mathbf{4.10 \text{ bats}} \\ &= \mathbf{0.41 \text{ bats/turbine}} \text{ (0.14 bats/MW)} \\ \\ C_{\text{July}} &= 10 / (0.93 * 0.87 * 0.85) = 10 / 0.6877 = \mathbf{14.54 \text{ bats}} \\ &= \mathbf{1.45 \text{ bats/turbine}} \text{ (0.51 bats/MW)} \\ \\ C_{\text{August}} &= 17 / (0.93 * 0.87 * 0.85) = 17 / 0.6877 = \mathbf{24.72 \text{ bats}} \\ &= \mathbf{2.47 \text{ bats/turbine}} \text{ (0.87 bats/MW)} \\ \\ C_{\text{September}} &= 3 / (1.00 * 0.79 * 0.93) = 3 / 0.7347 = \mathbf{4.08 \text{ bats}} \\ &= \mathbf{0.41 \text{ bats/turbine}} \text{ (0.14 bats/MW)} \\ \\ C_{\text{October}} &= 0 / (1.00 * 0.79 * 0.99) = 0 / 0.7900 = \mathbf{0.00 \text{ bats}} \\ &= \mathbf{0.00 \text{ bats/turbine}} \text{ (0.00 bats/MW)} \end{aligned}$$

Using the appropriate variables and recommended equations provided by the MNRF, NRSI has determined the corrected (estimated) bat mortality of the Amherst Island WP

in 2019. Each of the corrected monthly rates and the corrected annual mortality rate for the Amherst Island WP can be seen in Table 9.

Table 9. Corrected Bat Mortality Rates Based on Mortality Monitoring at the Amherst Island WP (2019)

Month (2019)	Observed Bat Mortalities	Corrected Mortality (bats/turbine)	Corrected Mortality (bats/MW)
May	3	0.62	0.22
June	2	0.41	0.14
July	10	1.45	0.51
August	17	2.47	0.87
September	3	0.41	0.14
October	0	0.00	0.00
TOTAL	35	5.36	1.88

Based on the information collected during the 2019 post-construction monitoring period, the anticipated impact of this facility on bats is characterized by a corrected mortality rate of **5.36 bats/turbine/year** (1.88 bats/MW/year).

9.0 Mortality Thresholds and Notifications

In accordance with the appropriate MNRF guidelines, project approval conditions, and other commitments made as part of the monitoring program, several mortality thresholds and notification requirements for the Amherst Island WP have been established. The status of each threshold and confirmation of notifications, where applicable, have been described in the following sections.

9.1 Annual Bird Mortality

The annual bird mortality threshold for the Amherst Island WP is 14 birds/turbine/year, calculated by individual turbine or turbine group. Based on an estimated rate of 4.77 birds/turbine/year, as calculated by turbine group, the Amherst Island WP remains below this threshold. Since the results are below the established threshold, no notification is required.

9.2 Annual Raptor Mortality

The annual raptor mortality threshold for the Amherst Island WP is 0.2 raptors/turbine/year (or 0.1 raptors/turbine/year for provincially tracked raptors). Based on an estimated rate of 0.19 raptors/turbine/year, and no mortalities of provincially tracked raptors during their tracked seasons, the Amherst Island WP remains below these thresholds. Since the results are below the established thresholds, no notification is required.

9.3 Annual Bat Mortality

The annual bat mortality threshold for the Amherst Island WP is 10 bats/turbine/year. Based on an estimated rate of 5.36 bats/turbine/year, the Amherst Island WP remains below this threshold. Since the results are below the established threshold, no notification is required.

9.4 Significant Bird Mortality Event

Significant bird mortality events have been defined by the MNRF as single-day mortality events with 10 or more birds at any one turbine or 33 or more birds (including raptors) at multiple turbines. Neither of these single-day mortality events was noted at the Amherst

Island WP during the 2019 monitoring year. As no significant bird mortality event occurred, no notification is required.

9.5 Bird Mortality Documented Near Significant Bird Habitats

As identified in the EEMP for the Amherst Island WP (Stantec 2013), bird mortality at turbines located within 120m of significant bird habitats should also be considered separately from project-wide mortality rates. No target bird mortalities (i.e. indicator species during the appropriate seasons within 120m of identified habitats) were documented at turbines within 120m of significant Marsh Bird Breeding Habitat, Woodland Area-sensitive Bird Breeding Habitat, Open Country Bird Breeding Habitat, or Shrub/Early Successional Bird Breeding Habitat. At the significant Landbird Migratory Stopover Area habitats, target bird mortality was not documented to be greater than six (6) target birds at turbines within 120m of any individual significant habitat in 2019, ranging from zero (0) target birds at the one (1) turbine within 120m of ML5 to a combined six (6) target bird mortalities at the five (5) turbines within 120m of ML4.

In addition, mortality of target overwintering raptors was limited to a single target mortality, a Rough-legged Hawk documented on January 15th within 120m of significant raptor overwintering area RWA3.

Based on the observed results within 120m of the applicable Significant Wildlife Habitats, there has not been significant mortality of target birds at turbines within 120m of the applicable habitats. As such, no notification is required.

9.6 Species at Risk Mortality Event

Any Species at Risk (SAR; MECP 2019) mortality documented during post-construction mortality monitoring at the Amherst Island WP requires formal notification to the MNRF and MECP within 24 hours (or next business day) of a confirmed species identification. In accordance with this requirement, a notification was sent to the MNRF and MECP within 24 hours (or next business day), following a confirmed identification of any SAR mortality at the Amherst Island WP.

10.0 Summary and Conclusions

NRSI was retained to conduct post-construction monitoring at the operational Amherst Island WP. The Amherst Island WP consists of 26 wind energy generating turbines, with a total nameplate capacity of 74.3MW.

Post-construction monitoring at the Amherst Island WP in 2019 included bird, bat and raptor mortality monitoring, and the corresponding searcher efficiency trials, scavenger removal trials, and visibility class mapping required to calculate estimated mortality rates. These surveys were conducted to assess the potential impacts of this wind energy generating facility on local and migratory birds and bats.

A total of 28 avian mortalities were documented at the Amherst Island WP during the 2019 monitoring period. Based on the observed avian mortalities in 2019, the potential impact of this facility was largely associated with common migratory songbirds. Given the number of observed avian mortalities, searcher efficiency rates, scavenger removal rates, proportion of area searched, and the equation recommended by the MNRF, a corrected (estimated) avian mortality rate of **4.77 birds/turbine/year** (1.66 birds/MW/year), as calculated by turbine group, has been determined for the Amherst Island WP. This estimated mortality rate is below the provincial threshold level of 14 birds/turbine/year established by the MNRF guidelines. No significant bird mortality events of 10 or more birds at any one turbine or 33 or more birds (including raptors) at multiple turbines on a single survey date were observed during the monitoring program in 2019.

Three (3) raptor mortalities were documented at the Amherst Island WP during the 2019 monitoring period. Based on the observed raptor mortalities, a corrected (estimated) raptor mortality rate of **0.19 raptors/turbine/year** (0.07 raptors/MW/year) has been determined for the Amherst Island WP. This raptor mortality rate is below the provincial threshold level of 0.2 raptors/turbine/year established by the MNRF guidelines. No mortalities of provincially tracked raptors were observed during applicable seasons in which observations are tracked.

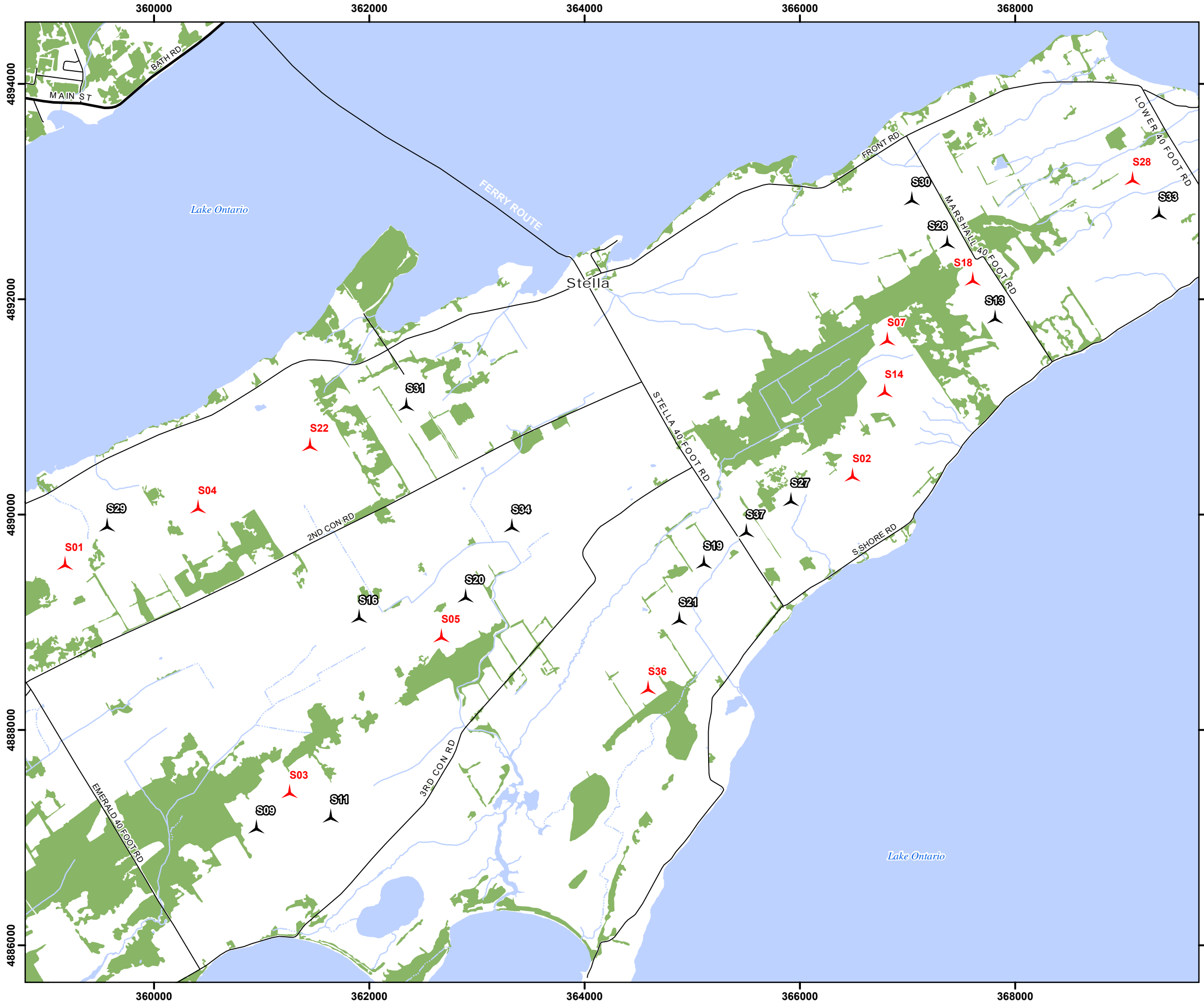
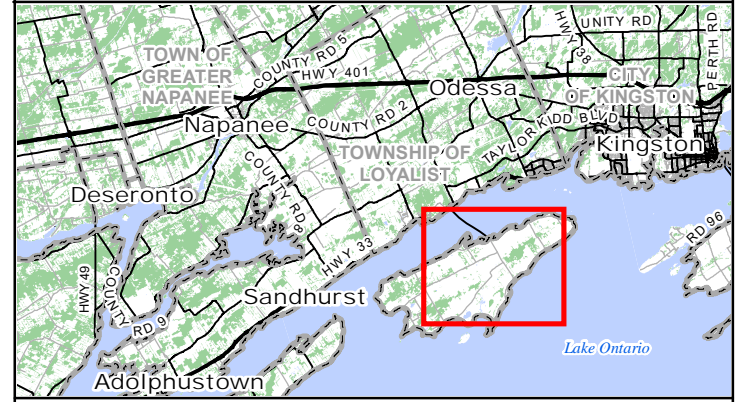
A total of 35 bat mortalities were documented during the 2019 mortality monitoring period at the Amherst Island WP. Migratory bat species were the most commonly observed mortalities at the project. Based on the observed bat mortalities, searcher efficiency rates, scavenger removal rates, proportion of area searched, and equations recommended by the MNRF, a corrected (estimated) bat mortality rate of **5.36 bats/turbine/year** (1.88 bats/MW/year) has been determined for the Amherst Island WP. This estimated bat mortality rate is below the provincial threshold level of 10 bats/turbine/year established by the MNRF guidelines.

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Maps

Amherst Island Wind Project Mortality Monitoring Turbines



Legend

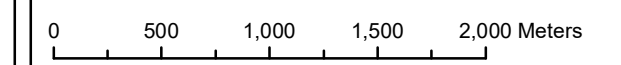
- Turbine¹
- Subset Turbine¹
- Highway
- Secondary Road
- Permanent Watercourse
- Intermittent Watercourse
- Water Body
- Wooded Area

¹The search frequency of all turbines is described in Section 2.1.2 of the Post-Construction Mortality Monitoring Report

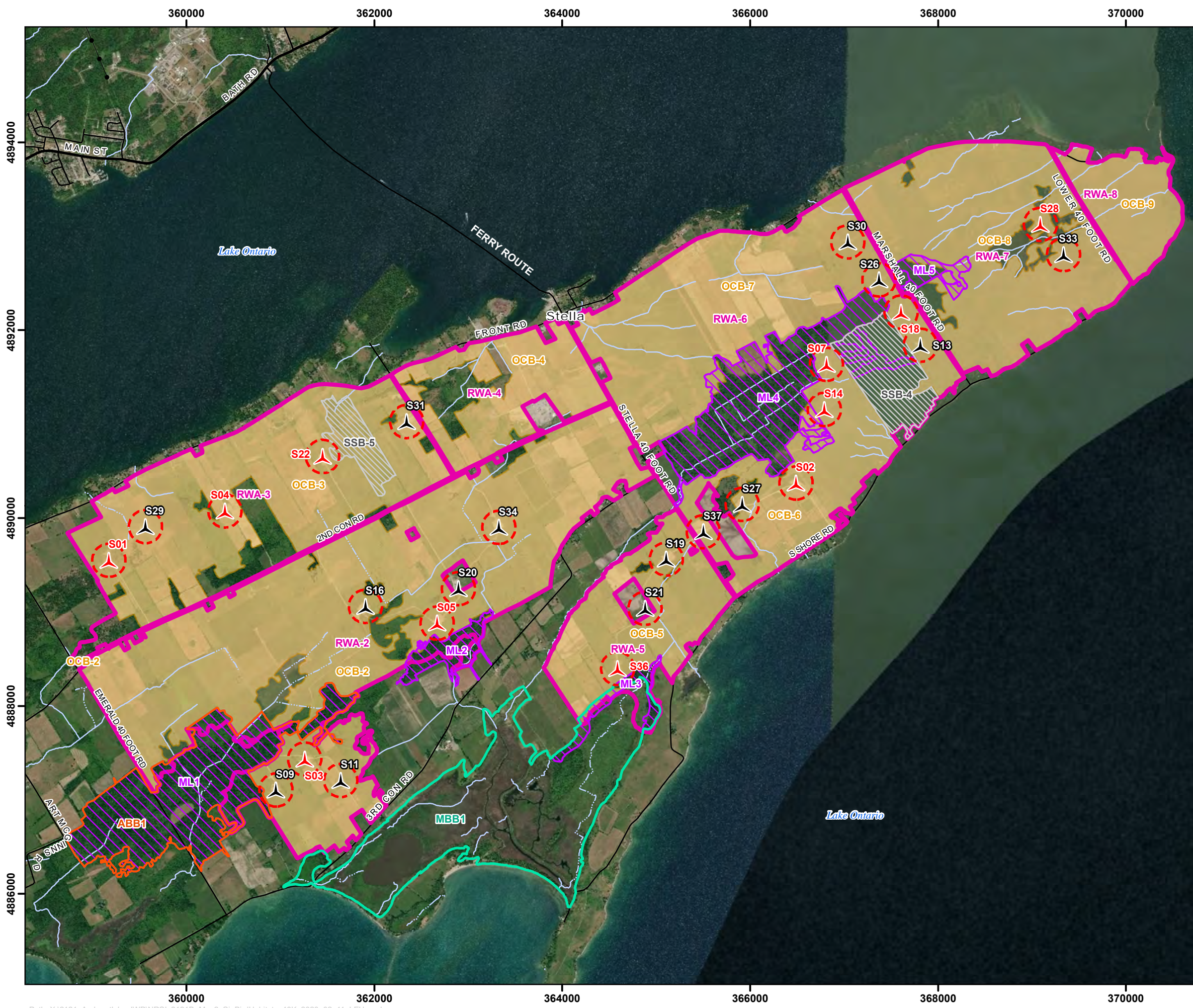
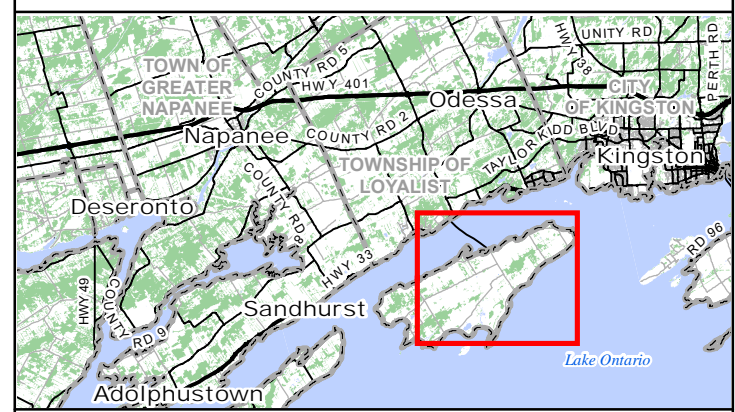


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Project: 2121 Date: February 13, 2020	NAD83 - UTM Zone 18 Size: 11x17" 1:35,000
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Amherst Island Wind Project Significant Bird Habitats



Legend

- Turbine¹
- Subset Turbine¹
- 120m from Blade Tip
- Utility Line
- Highway
- Primary Road
- Secondary Road
- Permanent Watercourse
- Intermittent Watercourse
- Raptor Wintering Area (RWA)
- Landbird Migratory Stopover Area (ML)
- Marsh Breeding Bird Habitat (MBB)
- Woodland Area-sensitive Breeding Bird Habitat (ABB)
- Open Country Breeding Bird Habitat (OCB)
- Shrub/Early Successional Bird Breeding Habitat (SSB)

¹The search frequency of all turbines is described in Section 2.1.2 of the Post-Construction Mortality Monitoring Report



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Project: 2121B Date: February 12, 2020	NAD83 - UTM Zone 18 Size: 11x17" 1:40,000
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0 0.5 1 1.5 2 2.5 Kilometers

Appendix I
Post-construction Monitoring Data Sheets

Searcher Efficiency Data Form

Project Name: _____ Project #: _____

Date: _____ Time: _____ hrs

Searcher: _____ Placed By: _____

Condition of Carcasses: Fresh Thawed Carcasses marked (and how)? _____

WEATHER

Temp: _____ °C *Wind Speed: _____ Wind Direction (from): _____ Visibility: High Medium Low

Cloud Cover (%): _____ Cloud Height: High Medium Low Precipitation: Rain Fog Snow None _____

Additional Weather or Other Comments: _____

	Time Placed (24hr)	Turbine #	Species	Distance From Turbine	Direction from Turbine	Habitat/Substrate	Visibility Class	UTM	Found By Searcher (Y/N)	Found After Search (Y/N)
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

*Beaufort Wind Scale: 0 calm; 1 smoke drifts; 2 wind felt on face; 3 leaves in motion; 4 small branches move; 5 small trees sway; 6 large branches move; 7 whole trees in motion; 8 twigs break off and hard to walk; 9 light structural damage; 10 tree uprooted

Placement Location Sketches (Draw access road for each sketch)

N ↑

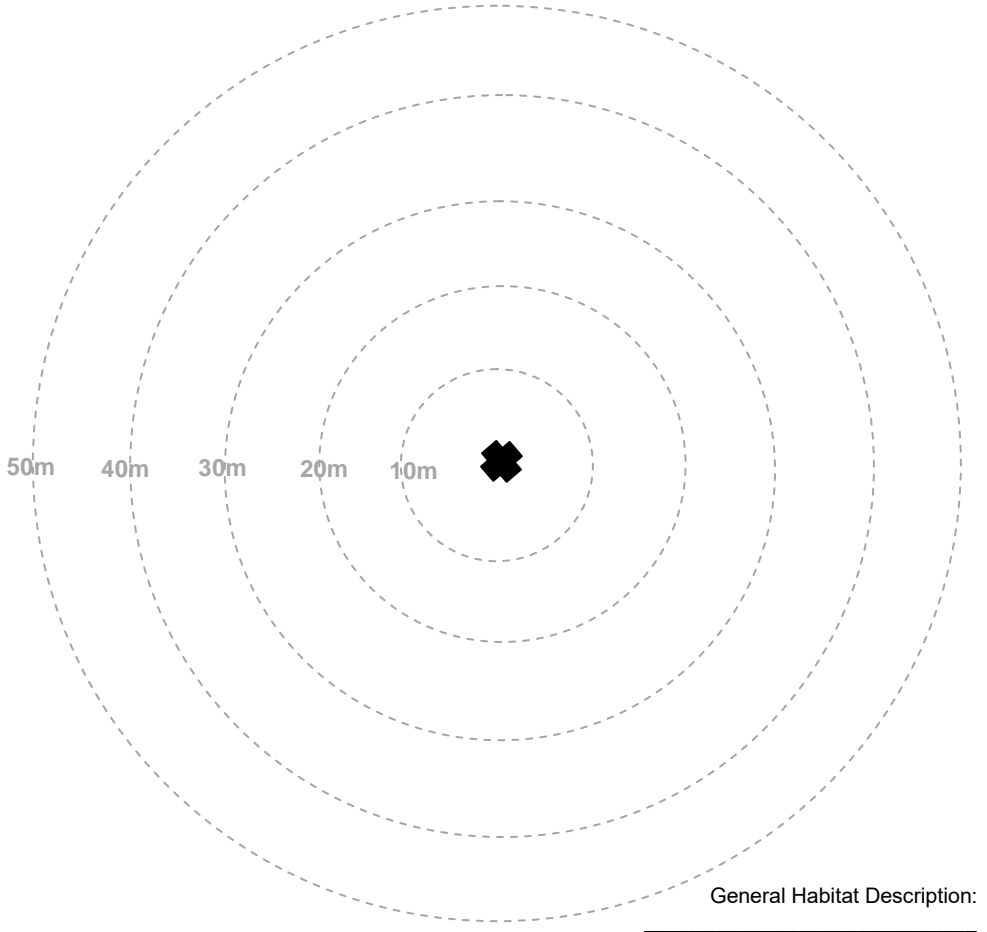
1	2	3	4	5	6	7	8	9	10
X	X	X	X	X	X	X	X	X	X
T#___	T#___	T#___	T#___	T#___	T#___	T#___	T#___	T#___	T#___

Visibility Class Map

Project Name: _____ Project #: _____ Turbine #: _____ Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

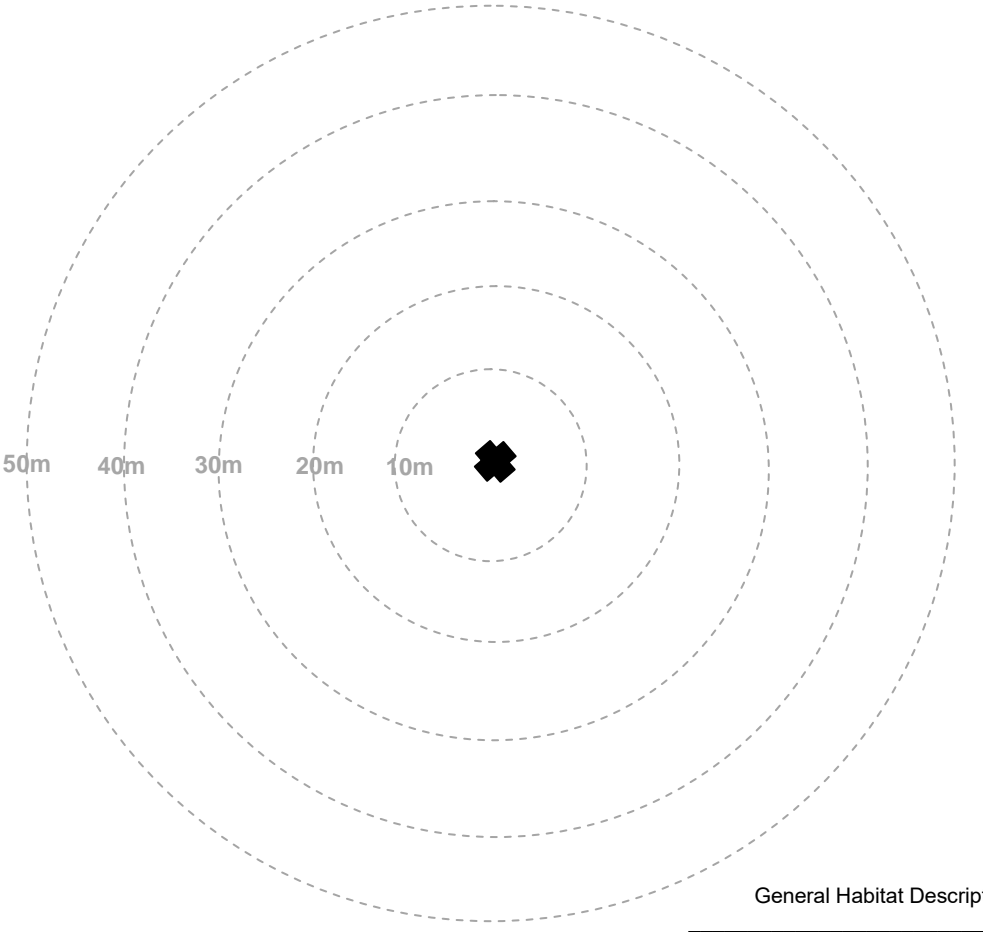
Date (DD/MM/YY): ___/___/___
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



General Habitat Description: _____

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



General Habitat Description: _____

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Appendix II
Scavenger Removal Trial Results

Appendix II
 2121B Amherst Island WP
 2019 Scavenger Removal Trial Results

Small Birds and Bats Trials

Spring (May/June)

Carcass Number	Turbine	Species	Distance from Turbine Base (m)	Direction from Turbine Base (°)	UTM (Zone 18T)		Visibility Class	Test Day	Date	Carcass Present	Signs of Scavenging	Tester
					Easting	Northing						
1	S01	Ruby-crowned Kinglet	34	110	359207	4889539	1	Day 0	3-May-19	Y	Carcass placed	Searcher B
								Day 4	7-May-19	Y	None	Searcher B
								Day 7	10-May-19	Y	None	Searcher B
								Day 11	14-May-19	Y	None	Searcher B
								Day 14	17-May-19	Y	None	Searcher B
2	S05	Hoary Bat	18	130	362685	4888871	1	Day 0	3-May-19	Y	Carcass placed	Searcher B
								Day 4	7-May-19	Y	None	Searcher B
								Day 7	10-May-19	Y	None	Searcher B
								Day 11	14-May-19	Y	None	Searcher B
								Day 14	17-May-19	Y	None	Searcher B
3	S07	Hoary Bat	27	15	366812	4891668	2	Day 0	3-May-19	Y	Carcass placed	Searcher B
								Day 4	7-May-19	Y	None	Searcher B
								Day 7	10-May-19	Y	None	Searcher B
								Day 11	14-May-19	Y	None	Searcher B
								Day 14	17-May-19	Y	None	Searcher B
4	S14	American Woodcock	46	25	366806	4891200	1	Day 0	3-May-19	Y	Carcass placed	Searcher B
								Day 4	7-May-19	Y	None	Searcher B
								Day 7	10-May-19	Y	None	Searcher B
								Day 11	14-May-19	N	Carcass removed, only a few feathers remain	Searcher B
								Day 14	17-May-19	N	No further signs	Searcher B
5	S28	White-throated Sparrow	6	285	369024	4893122	1	Day 0	3-May-19	Y	Carcass placed	Searcher B
								Day 4	7-May-19	Y	None	Searcher B
								Day 7	10-May-19	Y	None	Searcher B
								Day 11	14-May-19	Y	None	Searcher B
								Day 14	17-May-19	Y	None	Searcher B
6	S02	Blackburnian Warbler	15	90	366504	4890372	2	Day 0	4-Jun-19	Y	Carcass placed	Searcher B
								Day 3	7-Jun-19	N	Carcass removed	Searcher B
								Day 7	11-Jun-19	N	-	Searcher E
								Day 9	13-Jun-19	N	-	Searcher E
								Day 13	17-Jun-19	N	-	Searcher E
7	S03	Veery	23	330	361238	4887449	2	Day 0	4-Jun-19	Y	Carcass placed	Searcher B
								Day 3	7-Jun-19	N	Carcass removed	Searcher B
								Day 7	11-Jun-19	N	-	Searcher E
								Day 9	13-Jun-19	N	-	Searcher E
								Day 13	17-Jun-19	N	-	Searcher E
8	S18	Hoary Bat	49	310	367564	4892219	2	Day 0	4-Jun-19	Y	Carcass placed	Searcher B
								Day 3	7-Jun-19	Y	None	Searcher B
								Day 7	11-Jun-19	Y	None	Searcher E
								Day 9	13-Jun-19	N	Carcass removed	Searcher E
								Day 13	17-Jun-19	N	-	Searcher E
9	S22	Eastern Red Bat	2	175	361430	4890649	1	Day 0	4-Jun-19	Y	Carcass placed	Searcher B
								Day 3	7-Jun-19	Y	None	Searcher B
								Day 7	11-Jun-19	Y	None	Searcher E
								Day 9	13-Jun-19	Y	None	Searcher E
								Day 13	17-Jun-19	Y	None	Searcher E
10	S36	American Robin	33	225	364572	4888371	2	Day 0	4-Jun-19	Y	Carcass placed	Searcher B
								Day 3	7-Jun-19	Y	Feathers only	Searcher B
								Day 7	11-Jun-19	N	Feathers gone	Searcher E
								Day 9	13-Jun-19	N	-	Searcher E
								Day 13	17-Jun-19	N	-	Searcher E

Summer (July/August)

Carcass Number	Turbine	Species	Distance from Turbine Base (m)	Direction from Turbine Base (°)	UTM (Zone 18T)		Visibility Class	Test Day	Date	Carcass Present	Signs of Scavenging	Tester
					Easting	Northing						
1	S02	Tree Swallow	25	275	366464	4890369	1	Day 0	4-Jul-19	Y	Carcass placed	Searcher B
								Day 4	8-Jul-19	N	Carcass removed	Searcher B
								Day 7	11-Jul-19	N	-	Searcher B
								Day 11	15-Jul-19	N	-	Searcher B
								Day 14	18-Jul-19	N	-	Searcher B
2	S18	Ruby-crowned Kinglet	19	65	367621	4892207	1	Day 0	4-Jul-19	Y	Carcass placed	Searcher B
								Day 4	8-Jul-19	N	Carcass removed	Searcher B
								Day 7	11-Jul-19	N	-	Searcher B
								Day 11	15-Jul-19	N	-	Searcher B
								Day 14	18-Jul-19	N	-	Searcher B
3	S36	Silver-haired Bat	36	265	364553	4888384	1	Day 0	4-Jul-19	Y	Carcass placed	Searcher B
								Day 4	8-Jul-19	Y	None	Searcher B
								Day 7	11-Jul-19	Y	None	Searcher B
								Day 11	15-Jul-19	Y	None	Searcher B
								Day 14	18-Jul-19	Y	None	Searcher B
4	S07	Tree Swallow	42	225	366786	4897602	1	Day 0	4-Jul-19	Y	Carcass placed	Searcher E
								Day 4	8-Jul-19	Y	None	Searcher E
								Day 7	11-Jul-19	Y	None	Searcher E
								Day 11	15-Jul-19	Y	None	Searcher B
								Day 14	18-Jul-19	Y	None	Searcher B
5	S14	Hoary Bat	33	40	366808	4891190	2	Day 0	4-Jul-19	Y	Carcass placed	Searcher E
								Day 4	8-Jul-19	N	Carcass removed	Searcher E
								Day 7	11-Jul-19	N	-	Searcher E
								Day 11	15-Jul-19	N	-	Searcher B
								Day 14	18-Jul-19	N	-	Searcher B
6	S28	Fox Sparrow	18	50	369106	4893135	2	Day 0	1-Aug-19	Y	Carcass placed	Searcher B
								Day 3	4-Aug-19	Y	None	Searcher B
								Day 7	8-Aug-19	Y	None	Searcher B
								Day 11	12-Aug-19	Y	None	Searcher B
								Day 14	15-Aug-19	N	Carcass removed	Searcher B
7	S01	Hoary Bat	32	20	359181	4889585	2	Day 0	2-Aug-19	Y	Carcass placed	Searcher B
								Day 4	6-Aug-19	Y	None	Searcher B
								Day 7	9-Aug-19	Y	None	Searcher B
								Day 11	13-Aug-19	Y	None	Searcher B
								Day 14	16-Aug-19	Y	None	Searcher B
8	S03	Hoary Bat	23	140	361273	4887423	1	Day 0	2-Aug-19	Y	Carcass placed	Searcher B
								Day 4	6-Aug-19	Y	None	Searcher B
								Day 7	9-Aug-19	Y	None	Searcher B
								Day 11	13-Aug-19	Y	None	Searcher B
								Day 14	16-Aug-19	Y	None	Searcher B
9	S22	Black-and-white Warbler	8	25	361451	4890664	1	Day 0	2-Aug-19	Y	Carcass placed	Searcher B
								Day 4	6-Aug-19	Y	Moved slightly	Searcher B
								Day 7	9-Aug-19	Y	No further signs	Searcher B
								Day 11	13-Aug-19	Y	No further signs	Searcher B
								Day 14	16-Aug-19	Y	No further signs	Searcher B
10	S05	Chestnut-sided Warbler	49	70	362712	4888906	2	Day 0	9-Aug-19	Y	Carcass placed	Searcher B
								Day 4	13-Aug-19	Y	None	Searcher B
								Day 7	16-Aug-19	Y	None	Searcher B
								Day 11	20-Aug-19	N	Carcass removed	Searcher B
								Day 14	23-Aug-19	N	-	Searcher B
11	S18	Blackburnian Warbler	40	45	367633	4892225	2	Day 0	15-Aug-19	Y	Carcass placed	Searcher B
								Day 4	19-Aug-19	Y	None	Searcher B
								Day 7	22-Aug-19	Y	None	Searcher B
								Day 11	26-Aug-19	Y	None	Searcher B
								Day 14	29-Aug-19	Y	Wings remain	Searcher B
12	S36	Hermit Thrush	44	335	364568	4888440	2	Day 0	15-Aug-19	Y	Carcass placed	Searcher B
								Day 4	19-Aug-19	Y	None	Searcher B
								Day 7	22-Aug-19	Y	None	Searcher B
								Day 11	26-Aug-19	Y	None	Searcher B
								Day 14	29-Aug-19	Y	None	Searcher B

Fall (September/October)

Carcass Number	Turbine	Species	Distance from Turbine Base (m)	Direction from Turbine Base (°)	UTM (Zone 18T)		Visibility Class	Test Day	Date	Carcass Present	Signs of Scavenging	Tester
					Easting	Northing						
1	S01	Yellow-bellied Sapsucker	8	200	359171	4889544	2	Day 0	3-Sep-19	Y	Carcass placed	Searcher B
								Day 3	6-Sep-19	Y	None	Searcher B
								Day 7	10-Sep-19	N	Carcass removed	Searcher B
								Day 10	13-Sep-19	N	-	Searcher B
								Day 14	17-Sep-19	N	-	Searcher B
2	S03	Blue Jay	36	50	361285	4887460	1	Day 0	3-Sep-19	Y	Carcass placed	Searcher B
								Day 3	6-Sep-19	Y	Scavenged, feathers only	Searcher B
								Day 7	10-Sep-19	Y	No further signs	Searcher B
								Day 10	13-Sep-19	Y	No further signs	Searcher B
								Day 14	17-Sep-19	Y	No further signs	Searcher B
3	S05	Hoary Bat	25	10	362669	4888906	2	Day 0	3-Sep-19	Y	Carcass placed	Searcher B
								Day 3	6-Sep-19	Y	None	Searcher B
								Day 7	10-Sep-19	Y	None	Searcher B
								Day 10	13-Sep-19	Y	None	Searcher B
								Day 14	17-Sep-19	Y	None	Searcher B
4	S22	Silver-haired Bat	47	195	361453	4890610	1	Day 0	3-Sep-19	Y	Carcass placed	Searcher B
								Day 3	6-Sep-19	Y	None	Searcher B
								Day 7	10-Sep-19	N	Carcass removed	Searcher B
								Day 10	13-Sep-19	N	-	Searcher B
								Day 14	17-Sep-19	N	-	Searcher B
5	S36	Nashville Warbler	12	190	364591	4888388	1	Day 0	5-Sep-19	Y	Carcass placed	Searcher B
								Day 4	9-Sep-19	Y	None	Searcher B
								Day 7	12-Sep-19	Y	None	Searcher B
								Day 11	16-Sep-19	N	Carcass removed	Searcher B
								Day 14	19-Sep-19	N	-	Searcher B
6	S02	Yellow-bellied Sapsucker	47	120	366536	4890360	2	Day 0	3-Oct-19	Y	Carcass placed	Searcher B
								Day 4	7-Oct-19	N	Carcass removed	Searcher B
								Day 7	10-Oct-19	N	-	Searcher B
								Day 11	14-Oct-19	N	-	Searcher G
								Day 14	17-Oct-19	N	-	Searcher B
7	S07	Blackburnian Warbler	19	165	366824	4891624	2	Day 0	3-Oct-19	Y	Carcass placed	Searcher B
								Day 4	7-Oct-19	Y	None	Searcher B
								Day 7	10-Oct-19	Y	None	Searcher B
								Day 11	14-Oct-19	Y	None	Searcher G
								Day 14	17-Oct-19	Y	None	Searcher B
8	S14	Hoary Bat	31	295	366759	4891164	2	Day 0	3-Oct-19	Y	Carcass placed	Searcher B
								Day 4	7-Oct-19	Y	None	Searcher B
								Day 7	10-Oct-19	Y	None	Searcher B
								Day 11	14-Oct-19	N	Carcass removed	Searcher G
								Day 14	17-Oct-19	N	-	Searcher B
9	S18	Hoary Bat	9	50	367617	4892196	1	Day 0	3-Oct-19	Y	Carcass placed	Searcher B
								Day 4	7-Oct-19	N	Carcass removed	Searcher B
								Day 7	10-Oct-19	N	-	Searcher B
								Day 11	14-Oct-19	N	-	Searcher G
								Day 14	17-Oct-19	N	-	Searcher B
10	S28	Chestnut-sided Warbler	30	150	369121	4893119	1	Day 0	3-Oct-19	Y	Carcass placed	Searcher B
								Day 4	7-Oct-19	Y	None	Searcher B
								Day 7	10-Oct-19	Y	None	Searcher B
								Day 11	14-Oct-19	Y	None	Searcher G
								Day 14	17-Oct-19	Y	Carcass moved	Searcher B

Raptor Trials

Winter 1 (January-April)

Carcass Number	Turbine	Species	Distance from Turbine Base (m)	Direction from Turbine Base (°)	UTM (Zone 18T)		Visibility Class	Test Day	Date	Carcass Present	Signs of Scavenging	Tester
					Easting	Northing						
1	S30	Red-tailed Hawk	37	315	367004	4892950	1	Day 0	11-Jan-19	Y	Carcass placed	Searcher A
								Day 6	17-Jan-19	Y	None	Searcher A
								Day 14	25-Jan-19	Y	None	Searcher A
								Day 20	31-Jan-19	Y	None	Searcher A
								Day 28	8-Feb-19	Y	None	Searcher A
2	S33	Red-tailed Hawk	18	114	369355	4892802	1	Day 0	17-Jan-19	Y	Carcass placed	Searcher A
								Day 8	25-Jan-19	Y	None	Searcher A
								Day 14	31-Jan-19	Y	None	Searcher A
								Day 22	8-Feb-19	Y	None	Searcher A
								Day 29	15-Feb-19	Y	None	Searcher A
3	S13	Turkey Vulture	30	275	367783	4891835	1	Day 0	25-Jan-19	Y	Carcass placed	Searcher A
								Day 6	31-Jan-19	Y	None	Searcher A
								Day 14	8-Feb-19	Y	None	Searcher A
								Day 21	15-Feb-19	Y	None	Searcher A
								Day 28	22-Feb-19	Y	None	Searcher A
4	S34	Red-tailed Hawk	7	14	363332	4859898	1	Day 0	30-Jan-19	Y	Carcass placed	Searcher A
								Day 7	6-Feb-19	Y	Carcass moved slightly	Searcher A
								Day 15	14-Feb-19	Y	No further signs	Searcher A
								Day 20	19-Feb-19	Y	No further signs	Searcher A
								Day 27	26-Feb-19	Y	No further signs	Searcher A
5	S19	Turkey Vulture	47	76	365149	4889584	2	Day 0	8-Feb-19	Y	Carcass placed	Searcher A
								Day 6	14-Feb-19	Y	None	Searcher A
								Day 12	20-Feb-19	Y	None	Searcher A
								Day 19	27-Feb-19	Y	None	Searcher A
								Day 26	6-Mar-19	Y	None	Searcher A
6	S19	Red-tailed Hawk	32	302	365071	4889567	2	Day 0	8-Feb-19	Y	Carcass placed	Searcher A
								Day 6	14-Feb-19	Y	None	Searcher A
								Day 12	20-Feb-19	N	Carcass removed	Searcher A
								Day 19	27-Feb-19	N	-	Searcher A
								Day 26	6-Mar-19	N	-	Searcher A
7	S27	Red-tailed Hawk	50	125	365958	4890113	1	Day 0	14-Feb-19	Y	Carcass placed	Searcher A
								Day 6	20-Feb-19	Y	None	Searcher A
								Day 13	27-Feb-19	Y	Carcass moved slightly	Searcher A
								Day 20	6-Mar-19	Y	No further signs	Searcher A
								Day 28	14-Mar-19	Y	No further signs	Searcher A
8	S09	Turkey Vulture	14	35	360952	4887120	1	Day 0	20-Feb-19	Y	Carcass placed	Searcher A
								Day 7	27-Feb-19	Y	Carcass moved slightly	Searcher A
								Day 14	6-Mar-19	Y	No further signs	Searcher A
								Day 22	14-Mar-19	Y	Carcass moved slightly	Searcher A
								Day 29	21-Mar-19	Y	No further signs	Searcher A
9	S29	Turkey Vulture	50	190	359563	4889860	1	Day 0	26-Feb-19	Y	Carcass placed	Searcher A
								Day 7	5-Mar-19	Y	None	Searcher A
								Day 15	13-Mar-19	Y	None	Searcher A
								Day 22	20-Mar-19	Y	None	Searcher A
								Day 29	27-Mar-19	Y	None	Searcher A
10	S16	Red-tailed Hawk	50	248	361863	4889035	1	Day 0	5-Mar-19	Y	Carcass placed	Searcher A
								Day 8	13-Mar-19	Y	None	Searcher A
								Day 15	20-Mar-19	Y	None	Searcher A
								Day 22	27-Mar-19	Y	None	Searcher A
								Day 38	12-Apr-19	Y	None	Searcher B

Spring/Summer/Fall (May-October)

Carcass Number	Turbine	Species	Distance from Turbine Base (m)	Direction from Turbine Base (°)	UTM (Zone 18T)		Visibility Class	Test Day	Date	Carcass Present	Signs of Scavenging	Tester
					Easting	Northing						
1	S36	Mallard	41	175	364611	4888360	2	Day 0	3-May-19	Y	Carcass placed	Searcher B
								Day 4	7-May-19	Y	None	Searcher B
								Day 7	10-May-19	Y	None	Searcher B
								Day 11	14-May-19	Y	Carcass partially eaten	Searcher B
								Day 14	17-May-19	N	Carcass removed, some feathers remain.	Searcher B
2	S22	Turkey Vulture	27	215	361426	4890637	1	Day 0	3-May-19	Y	Carcass placed	Searcher B
								Day 4	7-May-19	Y	None	Searcher B
								Day 7	10-May-19	Y	None	Searcher B
								Day 11	14-May-19	Y	None	Searcher B
								Day 14	17-May-19	Y	None	Searcher B
3	S05	Turkey Vulture	14	200	362669	4888867	1	Day 0	4-Jun-19	Y	Carcass placed	Searcher B
								Day 3	7-Jun-19	Y	None	Searcher B
								Day 7	11-Jun-19	Y	None	Searcher E
								Day 10	14-Jun-19	Y	None	Searcher E
								Day 14	17-Jun-19	Y	None	Searcher E
4	S01	Mallard	38	285	359135	4889559	2	Day 0	4-Jun-19	Y	Carcass placed	Searcher B
								Day 4	7-Jun-19	Y	None	Searcher B
								Day 7	11-Jun-19	Y	Some feathers moved	Searcher E
								Day 11	14-Jun-19	Y	No further signs	Searcher E
								Day 14	17-Jun-19	Y	No further signs	Searcher E
5	S28	Red-tailed Hawk	43	115	369136	4893117	2	Day 0	4-Jul-19	Y	Carcass placed	Searcher E
								Day 4	8-Jul-19	Y	Carcass moved	Searcher E
								Day 7	11-Jul-19	N	Carcass removed	Searcher E
								Day 11	15-Jul-19	N	-	Searcher B
								Day 14	18-Jul-19	N	-	Searcher B
6	S01	Mallard	25	205	359167	4889526	1	Day 0	4-Jul-19	Y	Carcass placed	Searcher E
								Day 4	8-Jul-19	Y	Carcass moved	Searcher E
								Day 7	11-Jul-19	Y	None	Searcher E
								Day 11	15-Jul-19	Y	None	Searcher B
								Day 14	18-Jul-19	Y	None	Searcher B
7	S02	Red-tailed Hawk	8	35	366495	4890380	1	Day 0	1-Aug-19	Y	Carcass placed	Searcher B
								Day 4	4-Aug-19	Y	None	Searcher B
								Day 7	8-Aug-19	Y	None	Searcher B
								Day 11	12-Aug-19	Y	None	Searcher B
								Day 14	15-Aug-19	Y	None	Searcher B
8	S14	Turkey Vulture	46	120	366833	4891136	2	Day 0	1-Aug-19	Y	Carcass placed	Searcher B
								Day 4	4-Aug-19	Y	None	Searcher B
								Day 7	8-Aug-19	Y	None	Searcher B
								Day 11	12-Aug-19	Y	None	Searcher B
								Day 14	15-Aug-19	N	Carcass removed	Searcher B
9	S07	Mallard	45	250	366776	4891608	2	Day 0	5-Sep-19	Y	Carcass placed	Searcher B
								Day 4	9-Sep-19	Y	None	Searcher B
								Day 7	12-Sep-19	Y	Skin and feathers gone around the neck	Searcher B
								Day 11	16-Sep-19	Y	No further signs	Searcher B
								Day 14	19-Sep-19	Y	No further signs	Searcher B
10	S18	Red-tailed Hawk	18	185	367592	4892185	1	Day 0	5-Sep-19	Y	Carcass placed	Searcher B
								Day 4	9-Sep-19	Y	None	Searcher B
								Day 7	12-Sep-19	Y	None	Searcher B
								Day 11	16-Sep-19	Y	Carcass moved, wings/skeleton remain	Searcher B
								Day 14	19-Sep-19	Y	No further signs	Searcher B
11	S05	Turkey Vulture	25	330	362655	4888905	1	Day 0	4-Oct-19	Y	Carcass placed	Searcher B
								Day 3	7-Oct-19	Y	None	Searcher B
								Day 6	10-Oct-19	Y	None	Searcher B
								Day 10	14-Oct-19	Y	None	Searcher G
								Day 13	17-Oct-19	Y	None	Searcher B
12	S22	Red-tailed Hawk	36	355	361442	4890694	2	Day 0	4-Oct-19	Y	Carcass placed	Searcher B
								Day 3	7-Oct-19	Y	None	Searcher B
								Day 6	10-Oct-19	Y	None	Searcher B
								Day 10	14-Oct-19	Y	None	Searcher G
								Day 13	17-Oct-19	Y	None	Searcher B

Winter 2 (November-December)

Carcass Number	Turbine	Species	Distance from Turbine Base (m)	Direction from Turbine Base (°)	UTM (Zone 18T)		Visibility Class	Test Day	Date	Carcass Present	Signs of Scavenging	Tester
					Easting	Northing						
1	S18	Turkey Vulture	28	55	367321	4892216	1	Day 0	14-Nov-19	Y	Carcass placed	Searcher B
								Day 7	21-Nov-19	Y	None	Searcher B
								Day 14	28-Nov-19	N	Carcass removed	Searcher B
								Day 22	6-Dec-19	N	-	Searcher B
								Day 29	13-Dec-19	N	-	Searcher B
2	S28	Turkey Vulture	7	340	369085	4893134	2	Day 0	14-Nov-19	Y	Carcass placed	Searcher B
								Day 7	21-Nov-19	N	Carcass removed	Searcher B
								Day 14	28-Nov-19	N	-	Searcher B
								Day 22	6-Dec-19	N	-	Searcher B
								Day 29	13-Dec-19	N	-	Searcher B
3	S04	Mallard	18	95	360428	4890076	2	Day 0	3-Dec-19	Y	Carcass placed	Searcher B
								Day 6	9-Dec-19	N	Carcass removed	Searcher B
								Day 14	17-Dec-19	N	-	Searcher B
								Day 19	22-Dec-20	N	-	Searcher B
								Day 30	2-Jan-20	N	-	Searcher B
4	S11	Turkey Vulture	49	160	361674	4887167	1	Day 0	13-Dec-19	Y	Carcass placed	Searcher B
								Day 5	18-Dec-19	Y	None	Searcher B
								Day 9	22-Dec-19	Y	None	Searcher B
								Day 20	2-Jan-20	Y	None	Searcher B
								Day 27	9-Jan-20	N	Carcass removed, canid paw prints in the snow	Searcher B

Appendix III
Searcher Efficiency Trial Results

**Appendix III
2121B Amherst Island Wind Project
2019 Searcher Efficiency Trial Results**

Spring 2019 Searcher Efficiency Trial

Date	Searcher	No.	Turbine	Species	Distance (m)	Direction (°)	General Habitat	Visibility Class	UTM (18T)		Found (Y/N)	Scavenged (Y/N)
									Easting	Northing		
7/May/19	Searcher B	1	S02	Hoary Bat	36	190	Bare soil	1	366483	4890337	Y	-
		2	S36	White-throated Sparrow	25	30	Gravel	1	364599	4888422	Y	-
10/May/19	Searcher B	3	S07	Veery	20	20	Grass	2	366816	4891665	N	N
		4	S28	Hoary Bat	6	75	Gravel	1	369099	4893128	N	N
16/May/19	Searcher B	5	S03	Yellow-bellied Sapsucker	39	290	Grass	2	361216	4887438	Y	-
		6	S01	Golden-crowned Kinglet	47	180	Bare soil	1	359171	4889503	N	N
		7	S22	Eastern Red Bat	43	40	Grass	2	361455	4890703	N	N
24/May/19	Searcher B	8	S18	Hoary Bat	5	5	Gravel	1	367611	4892202	Y	-
		9	S28	American Robin	28	310	Weeds	2	369083	4893145	Y	-
		10	S02	Hoary Bat	14	90	Weeds	2	366498	4890372	N	N
4/Jun/19	Searcher B	11	S01	Fox Sparrow	25	250	Weeds	2	359149	4889533	Y	-
		12	S22	Hoary Bat	40	145	Gravel	1	361473	4890624	Y	-
		13	S05	Yellow-bellied Sapsucker	12	280	Weeds	2	362652	4888879	Y	-
17/Jun/19	Searcher B	14	S14	Yellow-bellied Sapsucker	30	20	Weeds	2	366794	4891190	Y	-
		15	S07	Fox Sparrow	47	290	Weeds	2	366763	4891641	Y	-
		16	S02	Hoary Bat	38	180	Bare soil	1	366494	4890335	Y	-
24/Jun/19	Searcher B	17	S14	Hoary Bat	48	30	Grass	2	366805	4891205	N	N
		18	S28	Tree Swallow	14	50	Bare soil	1	369103	4893134	N	N
		19	S18	Yellow-bellied Sapsucker	46	320	Grass	2	367574	4892227	Y	-
27-Jun-19	Searcher B	20	S02	Hoary Bat	27	275	Bare soil	1	366462	4890378	N	N

Spring 2019 Searcher Efficiency Trial Continued

Date	Searcher	No.	Turbine	Species	Distance (m)	Direction (°)	General Habitat	Visibility Class	UTM (18T)		Found (Y/N)	Scavenged (Y/N)
									Easting	Northing		
13-Jun-19	Searcher E	1	S22	Fox Sparrow	41	200	Weeds	2	361428	4890620	Y	-
		2	S01	Hoary Bat	5	120	Gravel	1	359180	4889550	N	N
		3	S36	Black-and-white Warbler	24	250	Bare soil	1	364546	4888396	N	N
17-Jun-19	Searcher E	4	S05	Yellow Warbler	37	335	Weeds	2	362656	4888915	N	N
		5	S22	Hoary Bat	17	270	Gravel	1	361429	4890652	Y	-
		6	S01	Yellow-bellied Sapsucker	43	210	Weeds	2	359173	4889508	Y	-
20-Jun-19	Searcher E	7	S36	Hoary Bat	17	60	Grass	2	364603	4888411	Y	-
		8	S03	Tree Swallow	36	295	Grass	2	361225	4887447	Y	-
		9	S01	Nashville Warbler	48	200	Gravel	1	359189	4889510	Y	-
24-Jun-19	Searcher E	10	S05	Ruby-crowned Kinglet	24	135	Gravel	1	362690	4888882	N	N
		11	S03	Hoary Bat	14	95	Gravel	1	361273	4887443	N	N
		12	S36	Hermit Thrush	35	210	Weeds	2	364557	4888419	Y	-
27-Jun-19	Searcher E	13	S05	Hoary Bat	27	185	Grass	2	362663	4888856	Y	-
		14	S22	Yellow-bellied Sapsucker	5	40	Gravel	1	361455	4890660	Y	-
		15	S03	Tree Swallow	49	95	Gravel	1	361302	4887436	N	N

Summer 2019 Searcher Efficiency Trial

Date	Searcher	No.	Turbine	Species	Distance (m)	Direction (°)	General Habitat	Visibility Class	UTM (18T)		Found (Y/N)	Scavenged (Y/N)
									Easting	Northing		
8-Jul-19	Searcher B	1	S36	Yellow-bellied Sapsucker	34	50	Weeds	2	364619	4888415	Y	-
		2	S02	Hoary Bat	26	245	Gravel	1	366465	4890359	Y	-
		3	S18	Nashville Warbler	3	140	Concrete	1	367612	4892190	Y	-
9-Jul-19	Searcher B	4	S22	Hoary Bat	48	50	Weeds	2	361478	4890692	Y	-
		5	S05	House Sparrow	24	20	Gravel	1	362678	4888905	Y	-
11-Jul-19	Searcher B	6	S02	Hoary Bat	7	25	Weeds	2	366494	4890381	Y	-
		7	S02	Hermit Thrush	35	245	Gravel	1	366463	4890349	Y	-
		8	S36	Fox Sparrow	17	280	Weeds	2	346567	4888394	Y	-
12-Jul-19	Searcher B	9	S01	Hoary Bat	16	115	Gravel	1	359192	4889550	Y	-
		10	S03	Tree Swallow	41	30	Weeds	2	361280	4887485	Y	-
15-Aug-19	Searcher B	11	S18	Baltimore Oriole	41	320	Grass	2	367573	4892222	N	Y
		12	S28	Nashville Warbler	20	240	Grass	2	369077	4893114	Y	-
		13	S02	Silver-haired Bat	37	190	Bare Soil	1	366498	4890338	N	N
16-Aug-19	Searcher B	14	S03	Blue-headed Vireo	32	120	Gravel	1	361286	4887423	Y	-
		15	S01	Hoary Bat	12	265	Grass	2	359167	4889544	N	Y
		16	S22	Tree Swallow	42	110	Bare Soil	1	361491	4890660	N	Y
26-Aug-19	Searcher B	17	S18	Blue Jay	27	180	Bare Soil	1	367603	4892165	Y	-
		18	S07	Yellow-bellied Sapsucker	43	50	Grass	2	366833	4891680	Y	-
		19	S36	Silver-haired Bat	9	260	Bare Soil	1	364583	4888394	Y	-
27-Aug-19	Searcher B	20	S05	Hoary Bat	33	100	Weeds	2	362699	4888876	Y	-
		21	S22	Black-and-white Warbler	12	220	Gravel	1	361440	4890647	Y	-
		22	S01	Hoary Bat	42	300	Weeds	2	359127	4889549	Y	-

Date	Searcher	No.	Turbine	Species	Distance (m)	Direction (°)	General Habitat	Visibility Class	UTM (18T)		Found (Y/N)	Scavenged (Y/N)
									Easting	Northing		
4-Jul-19	Searcher E	1	S07	Fox Sparrow	46	255	Grass	2	366768	4891616	Y	-
		2	S14	Hoary Bat	5	40	Gravel	1	366798	4891161	Y	-
		3	S28	Yellow Warbler	27	125	Gravel	1	369116	4893115	Y	-
5-Jul-19	Searcher E	4	S22	Yellow-bellied Sapsucker	14	90	Grass	2	361461	4890657	Y	-
		5	S01	Hoary Bat	39	210	Weeds	2	359164	4889514	N	N
		6	S01	Black-and-white Warbler	9	30	Gravel	1	359178	4889559	N	N
8-Jul-19	Searcher E	7	S07	Hoary Bat	37	215	Gravel	1	366787	4891606	Y	-
		8	S14	Yellow-bellied Sapsucker	12	160	Weeds	2	366796	4891147	Y	-
		9	S28	Wilson's Warbler	27	60	Weeds	2	369119	4893129	Y	-
9-Jul-19	Searcher E	10	S03	Hoary Bat	41	295	Grass	2	361218	4887448	Y	-
		11	S03	Yellow-bellied Sapsucker	5	40	Gravel	1	361261	4887427	Y	-
		12	S01	Hermit Thrush	32	155	Gravel	1	359188	4889523	Y	-
11-Jul-19	Searcher E	13	S07	White-throated Sparrow	46	220	Grass	2	366783	4891599	N	N
		14	S14	Wilson's Warbler	24	40	Gravel	1	366810	4891179	Y	-
		15	S28	Hoary Bat	13	100	Gravel	1	369104	4893124	Y	-

Fall 2019 Searcher Efficiency Trial

Date	Searcher	No.	Turbine	Species	Distance (m)	Direction (°)	General Habitat	Visibility Class	UTM (18T)		Found (Y/N)	Scavenged (Y/N)
									Easting	Northing		
5-Sep-19	Searcher B	1	S14	Hoary Bat	16	50	Gravel	1	366801	4891171	Y	-
		2	S02	Fox Sparrow	44	155	Grass	2	366505	4890334	Y	-
		3	S36	Blue-headed Vireo	42	285	Bare Soil	1	364553	4888416	Y	-
12-Sep-19	Searcher B	4	S28	American Robin	22	225	Weeds	2	369084	4893112	Y	-
		5	S14	Hoary Bat	37	320	Weeds	2	366762	4891185	Y	-
		6	S07	Hermit Thrush	7	340	Gravel	1	366808	4891647	Y	-
13-Sep-19	Searcher B	7	S22	Silver-haired Bat	21	150	Gravel	1	361458	4890642	Y	-
		8	S01	Blue-headed Vireo	43	300	Weeds	2	359132	4889571	Y	-
		9	S05	White-throated Sparrow	12	320	Gravel	1	362660	4888891	Y	-
24-Sep-19	Searcher B	10	S03	Hoary Bat	35	140	Grass	2	361285	4887411	Y	-
4-Oct-19	Searcher B	11	S22	Hoary Bat	19	130	Gravel	1	361460	4890646	Y	-
		12	S01	Yellow-bellied Sapsucker	28	200	Weeds	2	359165	4889524	Y	-
		13	S03	Wilson's Warbler	39	95	Gravel	1	361293	4887414	Y	-
17-Oct-19	Searcher B	14	S36	Fox Sparrow	45	20	Gravel	1	364600	4888444	Y	-
		15	S02	Hoary Bat	9	300	Weeds	2	366479	4890378	Y	-
		16	S07	Yellow-bellied Sapsucker	25	145	Weeds	2	366831	4891619	Y	-
21-Oct-19	Searcher B	17	S28	Hoary Bat	46	240	Grass	2	369074	4893083	Y	-
		18	S18	Ruby-crowned Kinglet	38	60	Gravel	1	367623	4892232	Y	-
24-Oct-19	Searcher B	19	S14	Nashville Warbler	34	350	Grass	2	366768	4891183	Y	-
		20	S05	Hoary Bat	49	60	Gravel	1	362691	4888928	Y	-

Appendix IV
Avian Mortalities

Appendix IV
2121B Amherst Island Wind Project
2019 Avian Mortalities

Visibility Class: 1 ≥90% bare ground, vegetation ≤15cm tall
 2 ≥25% bare ground, vegetation ≤15cm tall
 3 ≤25% bare ground, <25% of vegetation is >30cm tall
 4 little or no bare ground, ≥ 25% of vegetation is >30cm tall

Condition Code: I Injured or dying
 F Freshly dead
 E Early decomposition
 M Moderate decomposition
 A Advanced decomposition
 C Complete Decomposition
 S Scavenged

Date	Turbine	Start Time	End Time	Dog Used (Y/N)	Days Since Last Search	Temp.	Cloud Cover (%)	Precipitation	Wind Speed (Beaufort Scale)	Wind Direction	Species	Sample ID	Sex (M/F/U)	Easting	Northing	Distance from Turbine (m)	Direction from Turbine (°)	Condition Code	Estimated Time Since Death (hrs)	Observed Injuries	Substrate/Habitat	Visibility Class
7-May-19	S03	8:30	9:00	N	4	12	100	Rain	3	WSW	European Starling	2121B-070519-S03-01	U	361244	4887445	14	335	E	96	Only one wing and a leg found	Bare soil	1
10-May-19	S14	14:40	15:10	N	3	12	100	Rain	4	SW	Warbler sp.	2121B-100519-S14-01	U	366756	4891175	37	290	E	48	Laceration and broken wing	Bare soil	1
24-May-19	S01	9:25	9:55	N	3	12	80	None	2	S	Red-eyed Vireo	2121B-240519-S01-01	U	359218	4889532	49	130	F	6	Broken neck	Bare soil	1
24-May-19	S22	10:10	10:40	N	3	12	80	None	2	S	Bay-breasted Warbler	2121B-240519-S02-02	M	361471	4890866	28	80	E	48	Broken wing and leg, laceration on left side	Bare soil	1
28-May-19	S22	8:15	8:45	N	4	10	100	Rain	4	ENE	Swainson's Thrush	2121B-280519-S22-01	U	361483	4890669	38	85	E	24	Broken neck	Bare soil	1
31-May-19	S22	15:25	15:55	N	3	12	30	None	2	NE	Magnolia Warbler	2121B-310518-S22-01	F	361433	4890626	35	220	M	48	Laceration on left side	Bare soil	1
31-May-19	S14	16:50	17:20	N	3	12	30	None	2	NE	American Redstart	2121B-310518-S14-01	M	366830	4891153	39	110	A	72	Body lacerations	Bare soil	1
4-Jun-19	S03	11:40	12:10	N	4	9	90	None	4	S	Wilson's Snipe	2121B-040619-S03-01	U	361218	4887450	46	310	F	6	Broken neck	Grass	2
4-Jun-19	S14	12:26	12:56	N	4	14	99	None	4	SSW	Wilson's Snipe	2121B-040619-S14-01	U	366827	4891158	35	70	E	48	None apparent	Bare soil	2
13-Jun-19	S28	13:15	13:45	N	2	12	100	None	4	SSE	Swallow sp.	2121B-130619-S28-01	U	369046	4893121	45	230	F	24	Only the tail found	Bare soil	1
17-Jun-19	S28	13:10	13:40	N	4	21	10	None	2	SE	Red-eyed Vireo	2121B-170619-S28-01	U	369110	4893118	20	120	A	720	None apparent	Gravel	1
17-Jun-19	S02	15:45	16:15	N	4	21	10	None	2	SE	Wilson's Snipe	2121B-170619-S02-01	U	366478	4890337	38	210	F	10	Broken neck	Bare soil	1
27-Jun-19	S14	15:30	16:00	N	3	27	20	None	4	SSW	Tree Swallow	2121B-270619-S14-01	U	366759	4891139	42	240	S	48	Only wings remain	Grass	2
9-Jul-19	S05	12:25	13:05	N	4	25	5	None	3	SSW	Tree Swallow	2121B-090719-S05-01	J	362708	4888901	42	60	F	24	Laceration on left leg	Gravel	1
16-Jul-19	S05	10:55	11:35	N	4	26	30	None	4	SSE	Killdeer	2121B-160719-S05-02	U	362625	4888885	40	290	A	240	Feathers only	Weeds	2
29-Jul-19	S18	6:55	7:35	N	4	26	20	None	3	SSW	Killdeer	2121B-290719-S18-01	U	367571	4892211	38	285	E	72	Broken neck	Weeds	2
15-Aug-19	S18	9:30	10:10	N	3	20	0	None	3	E	Purple Martin	2121B-150819-S18-01	J	367602	4892198	2	340	F	24	Lacerated abdomen	Gravel	1
19-Aug-19	S07	15:25	16:05	N	4	25	50	None	4	SW	Bobolink	2121B-190819-S07-02	F or J	366805	4891672	35	355	F	24	None apparent	Weeds	2
29-Aug-19	S18	8:10	8:50	N	3	22	75	None	4	SW	Cedar Waxwing	2121B-290819-S18-01	M	367629	4892190	22	105	E	24	Lower half missing, upper body in two parts	Gravel	1
29-Aug-19	S18	8:10	8:50	N	3	22	75	None	4	SW	Cedar Waxwing	2121B-290819-S18-02	M	367623	4892190	19	115	F	24	Broken neck	Gravel	1
29-Aug-19	S28	9:10	9:50	N	3	22	75	None	4	SW	Bobolink	2121B-290819-S28-01	F or J	369099	4893125	11	120	F	4	None apparent	Gravel	1
2-Sep-19	S28	8:05	8:45	N	4	20	100	Rain	2	W	Passerine sp.	2121B-020919-S28-01	U	369125	4893143	34	50	S	72	Only a wing found	Grass	2
17-Sep-19	S03	10:50	11:30	N	4	12	10	None	2	E	Killdeer	2121B-170919-S03-01	U	361247	4887480	43	0	M	96	Broken neck	Grass	2
24-Sep-19	S01	12:30	13:10	N	4	18	40	None	1-2	NW	Red-eyed Vireo	2121B-240919-S01-01	U	359190	4889576	25	35	F	24	Cracked skull	Grass	2
1-Oct-19	S05	7:05	7:45	N	4	20	100	Rain	2	SW	Red-eyed Vireo	2121B-011019-S05-01	U	362669	4888886	1	10	F	24	Broken neck	Concrete	1
3-Oct-19	S36	14:55	15:35	N	3	8	100	Rain	4	E	Palm Warbler	2121B-031019-S36-01	U	364554	4888404	41	240	F	24	Laceration on neck, broken left wing	Grass	2
21-Oct-19	S28	13:00	13:30	N	4	6	100	Fog	2	N	Ruby-crowned Kinglet	2121B-211019-S28-01	U	369117	4893123	22	80	E	42	Broken neck	Gravel	1
31-Oct-19	S36	10:15	10:45	N	3	12	100	Rain	4	S	Golden-crowned Kinglet	2121B-311019-S36-01	M	364511	4888408	36	290	F	24	Broken left wing	Grass	2

2019 Raptor Mortalities

Date	Turbine	Start Time	End Time	Dog Used (Y/N)	Days Since Last Search	Temp.	Cloud Cover (%)	Precipitation	Wind Speed (Beaufort Scale)	Wind Direction	Species	Sample ID	Sex (M/F/U)	Easting	Northing	Distance from Turbine (m)	Direction from Turbine (°)	Condition Code	Estimated Time Since Death (hrs)	Observed Injuries	Substrate/Habitat	Visibility Class
2-Jan-19	S05	11:45	12:05	N	<30	-8	0	None	3	NNE	Peregrine Falcon	2121B-020119-S05-01	M	362698	4888916	45	40	E	24	None apparent	Gravel	1
15-Jan-19	S04	11:02	11:22	N	6	-1	100	Snow	2	WSW	Rough-legged Hawk	2121B-150119-S04-01	U	360399	4890072	10	263	S	96	Only one leg remains	Gravel	1
21-May-19	S03	8:15	8:45	N	4	16	10	None	4	NW	American Kestrel	2121B-210519-S01-01	M	361305	4887443	49	75	S	72	Decapitated	Gravel	1

Appendix V
Bat Mortalities

Appendix V
2121B Amherst Island Wind Project
2019 Bat Mortalities

Visibility Class: 1 ≥90% bare ground, vegetation ≤15cm tall
 2 ≥25% bare ground, vegetation ≤15cm tall
 3 ≤25% bare ground, ≤25% of vegetation is >30cm tall
 4 little or no bare ground, ≥ 25% of vegetation is >30cm tall

Condition Code: I Injured or dying
 F Freshly dead
 E Early decomposition
 M Moderate decomposition
 A Advanced decomposition
 C Complete Decomposition
 S Scavenged

Date	Turbine	Start Time	End Time	Dog Used (Y/N)	Days Since Last Search	Temp.	Cloud Cover (%)	Precipitation	Wind Speed (Beaufort Scale)	Wind Direction	Species	Sample ID	Bat FA (mm)	Sex (M/F/U)	Easting	Northing	Distance from Turbine (m)	Direction from Turbine (°)	Condition Code	Estimated Time Since Death (hrs)	Observed Injuries	Substrate/ Habitat	Visibility Class
28-May-19	S18	12:10	12:40	N	4	10	100	Rain	4	ENE	Big Brown Bat	2121B-280519-S18-02	44	U	367603	4892166	31	180	E	36	None apparent	Bare soil	1
31-May-19	S18	13:30	14:00	N	3	12	30	None	2	NE	Silver-haired Bat	2121B-310519-S18-01	41	U	367607	4892222	27	15	M	60	None apparent	Gravel	1
31-May-19	S18	13:30	14:00	N	3	12	30	None	2	NE	Silver-haired Bat	2121B-310519-S18-02	40	U	367574	4892195	36	290	E	36	None apparent	Bare soil	1
11-Jun-19	S01	16:00	16:30	N	4	17	50	None	4	NW	Eastern Red Bat	2121B-110619-S01-01	39	U	359192	4889527	31	140	M-A	>72	None apparent	Gravel	1
17-Jun-19	S02	15:45	16:15	N	4	21	10	None	2	SE	Big Brown Bat	2121B-170619-S02-02	43	U	366483	4890364	8	245	F	16	Laceration right side	Gravel	1
11-Jul-19	S36	11:45	12:25	N	3	25	100	None	3	SSE	Big Brown Bat	2121B-110719-S36-01	45	U	364557	4888398	29	275	E	36	None apparent	Weeds	2
16-Jul-19	S05	10:55	11:35	N	4	26	30	None	4	SSE	Hoary Bat	2121B-160719-S05-01	59	U	362658	4888896	22	340	F	12	None apparent	Gravel	1
22-Jul-19	S07	9:50	10:30	N	4	20	100	Rain	3	NE	Hoary Bat	2121B-220719-S07-01	52	U	366832	4891643	21	75	F	11	None apparent	Gravel	2
23-Jul-19	S05	7:55	8:35	N	4	21	0	None	1	N	Big Brown Bat	2121B-230719-S05-01	45	U	362695	4888884	24	80	E	84	Laceration to throat	Gravel	1
25-Jul-19	S36	8:50	9:30	N	3	25	25	None	4	SSW	Hoary Bat	2121B-250719-S36-01	50	U	364593	4888416	17	25	F	10	Broken right wing	Gravel	1
26-Jul-19	S03	10:05	10:45	N	3	24	0	None	2	S	Hoary Bat	2121B-260719-S03-01	51	U	361263	4887453	18	15	F	12	Hole in left side of skull	Bare soil	1
26-Jul-19	S03	10:05	10:45	N	3	24	0	None	2	S	Hoary Bat	2121B-260719-S03-02	51	U	361248	4887455	20	355	F	12	Both forearms broken	Gravel	1
29-Jul-19	S28	8:00	8:40	N	4	26	20	None	3	SSW	Big Brown Bat	2121B-290719-S28-01	40	U	369106	4893121	19	110	S	10	Only the head found	Gravel	1
29-Jul-19	S36	11:30	12:10	N	4	26	20	None	3	SSW	Eastern Red Bat	Not collected	41	U	364597	4888395	7	105	I	N/A	Alive, no injuries observed	Weeds	2
29-Jul-19	S36	11:30	12:10	N	4	26	20	None	3	SSW	Eastern Red Bat	2121B-290719-S36-02	37	U	364629	4888388	41	130	F	12	None apparent	Grass	2
30-Jul-19	S05	8:15	8:55	N	3	24	30	None	4	SW	Hoary Bat	2121B-300719-S05-01	53	U	362689	4888879	20	105	E	36	Broken neck	Gravel	1
5-Aug-19	S07	8:55	9:35	N	4	26	0	None	4	SSW	Big Brown Bat	2121B-050819-S07-01	43	U	366807	4891625	17	220	E	36	Broken back of skull	Gravel	1
5-Aug-19	S14	9:40	10:20	N	4	26	0	None	4	SSW	Eastern Red Bat	2121B-050819-S14-01	40	U	366821	4891178	36	70	F	11	Broken right wing	Gravel	1
6-Aug-19	S03	11:45	12:25	N	4	30	5	None	2	SSW	Eastern Red Bat	2121B-060819-S03-01	34	U	361228	4887401	44	225	E	36	None apparent	Grass	2
8-Aug-19	S36	12:20	13:00	N	3	25	80	None	3	SW	Eastern Red Bat	2121B-080819-S36-01	38	U	364590	4888413	12	15	F	12	Broken right wing	Gravel	1
8-Aug-19	S36	12:20	13:00	N	3	25	80	None	3	SW	Big Brown Bat	2121B-080819-S36-02	48	U	364590	4888396	1	110	M	60	None apparent	Gravel	1
9-Aug-19	S03	12:00	12:40	N	3	22	10	None	4	WSW	Eastern Red Bat	2121B-090819-S03-01	39	U	361250	4887456	24	350	E	36	None apparent	Gravel	1
12-Aug-19	S18	10:10	10:50	N	4	24	30	None	4	SSW	Big Brown Bat	2121B-120819-S18-01	42	U	367624	4892186	22	105	E	36	None apparent	Gravel	1
13-Aug-19	S05	8:00	8:40	N	4	24	40	None	2	NE	Hoary Bat	2121B-130819-S05-01	54	U	362677	4888920	38	10	F	10	Broken right wing, lacerated abdomen	Bare soil	1
13-Aug-19	S01	10:40	11:20	N	4	24	40	None	2	NE	Hoary Bat	2121B-130819-S05-01	53	U	359186	4889574	24	45	F	12	Broken left wing	Grass	2
15-Aug-19	S18	9:30	10:10	N	3	20	0	None	3	E	Silver-haired Bat	2121B-150819-S18-02	39	U	367574	4892193	31	270	F	11	None apparent	Bare soil	1
19-Aug-19	S36	12:20	13:00	N	4	25	50	None	4	SW	Eastern Red Bat	2121B-190819-S36-01	41	U	364612	4888394	24	90	A	132	None apparent	Bare soil	1
19-Aug-19	S36	12:20	13:00	N	4	25	50	None	4	SW	Big Brown Bat	2121B-190819-S36-02	46	M	364586	4888441	41	355	E	36	None apparent	Gravel	1
22-Aug-19	S14	11:15	11:55	N	3	18	90	None	3	W	Hoary Bat	2121B-220819-S14-01	51	M	366821	4891184	38	60	F	12	None apparent	Gravel	1
22-Aug-19	S07	12:20	13:00	N	3	18	90	None	3	W	Eastern Red Bat	2121B-220819-S07-01	38	M	366861	4891639	49	80	F	12	Broken forearm	Bare soil	1
23-Aug-19	S05	9:35	10:15	N	3	12	0	None	3	N	Eastern Red Bat	2121B-230819-S05-01	41	F	362679	4888910	28	30	F	11	Broken left wing	Gravel	1
27-Aug-19	S05	9:05	9:45	N	4	22	100	None	5	S	Little Brown Myotis	2121B-270819-S05-01	37	U	362646	4888921	43	335	E	36	Broken left wing	Bare soil	1
27-Aug-19	S05	9:05	9:45	N	4	22	100	None	5	S	Silver-haired Bat	2121B-270819-S05-02	41	U	362706	4888877	35	105	F	10	None apparent	Grass	2
5-Sep-19	S07	12:00	12:40	N	3	20	10	None	2	SW	Eastern Red Bat	2121B-050919-S07-01	38	U	366782	4891615	36	230	F	8	Broken right wing	Grass	2
12-Sep-19	S02	13:00	13:40	N	3	15	90	None	4	E	Silver-haired Bat	2121B-120919-S03-01	40	U	366493	4890400	27	15	M	60	None apparent	Grass	2
17-Sep-19	S22	9:00	9:40	N	4	12	10	None	2	E	Silver-haired Bat	Not collected	41	U	361461	4890666	17	60	I	N/A	Alive, no injuries observed	Grass	2
19-Sep-19	S07	11:00	11:40	N	3	20	20	None	2	SW	Silver-haired Bat	2121B-190919-S07-01	42	U	366819	4891625	11	160	F	12	None apparent	Gravel	1

Appendix VI
Locations of Bird and Bat Mortalities

359125

359150

359175

359200

359225

4889600

4889600

4889575

4889575

4889550

4889550

4889525

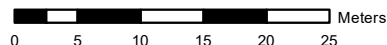
4889525

4889500

4889500



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359125






359150

359175

359200

359225

Legend

-  Turbine
-  Search Radius
-  Eastern Red Bat
-  Hoary Bat
-  Red-eyed Vireo

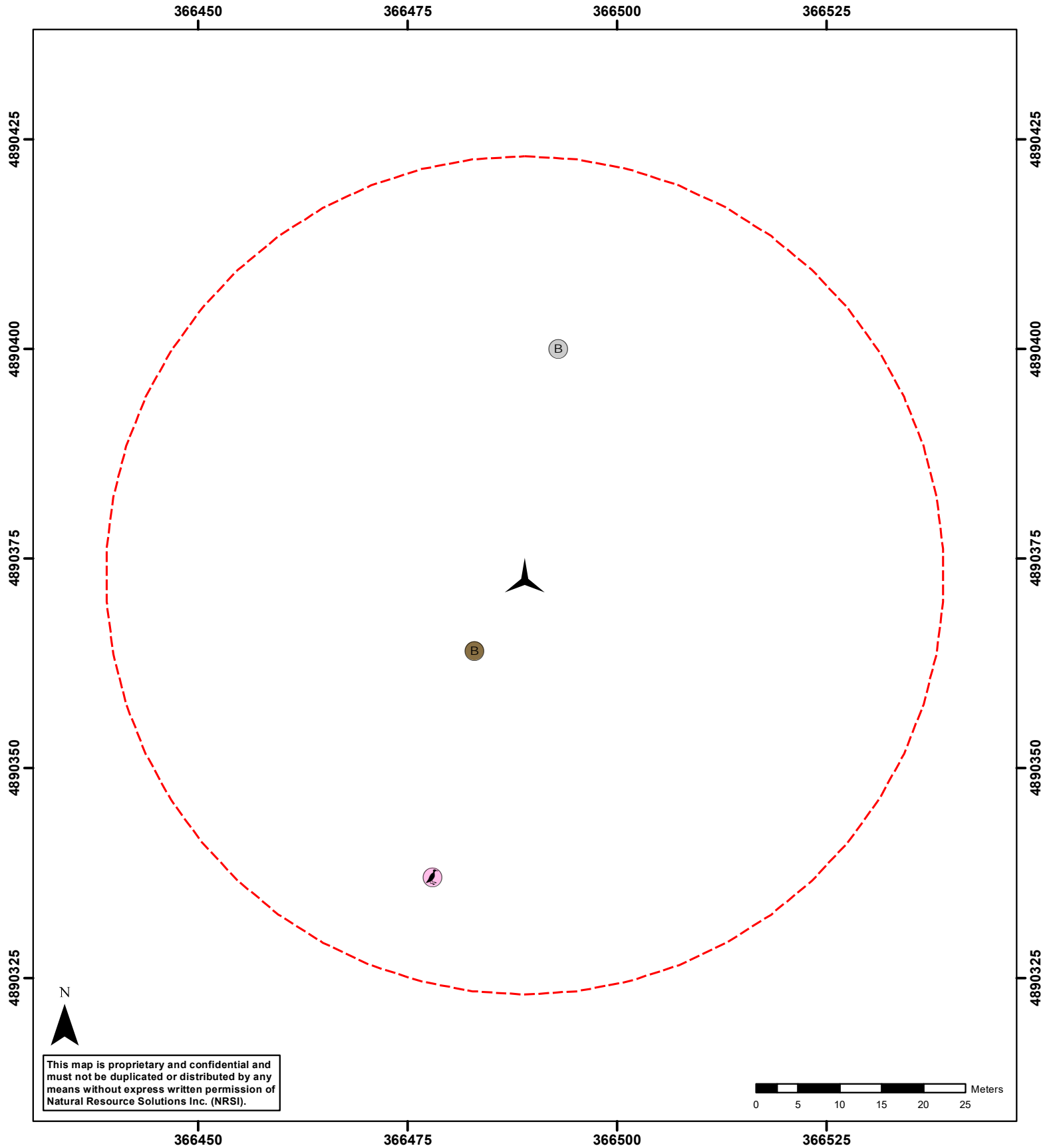
Appendix VI

**Amherst Island WP
Turbine S01 Mortalities 2019**

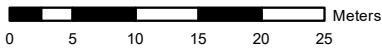
NAD83 - UTM Zone 18
Scale: 1:600 (8.5x11")

Date: December 19, 2019
Project: 2121B

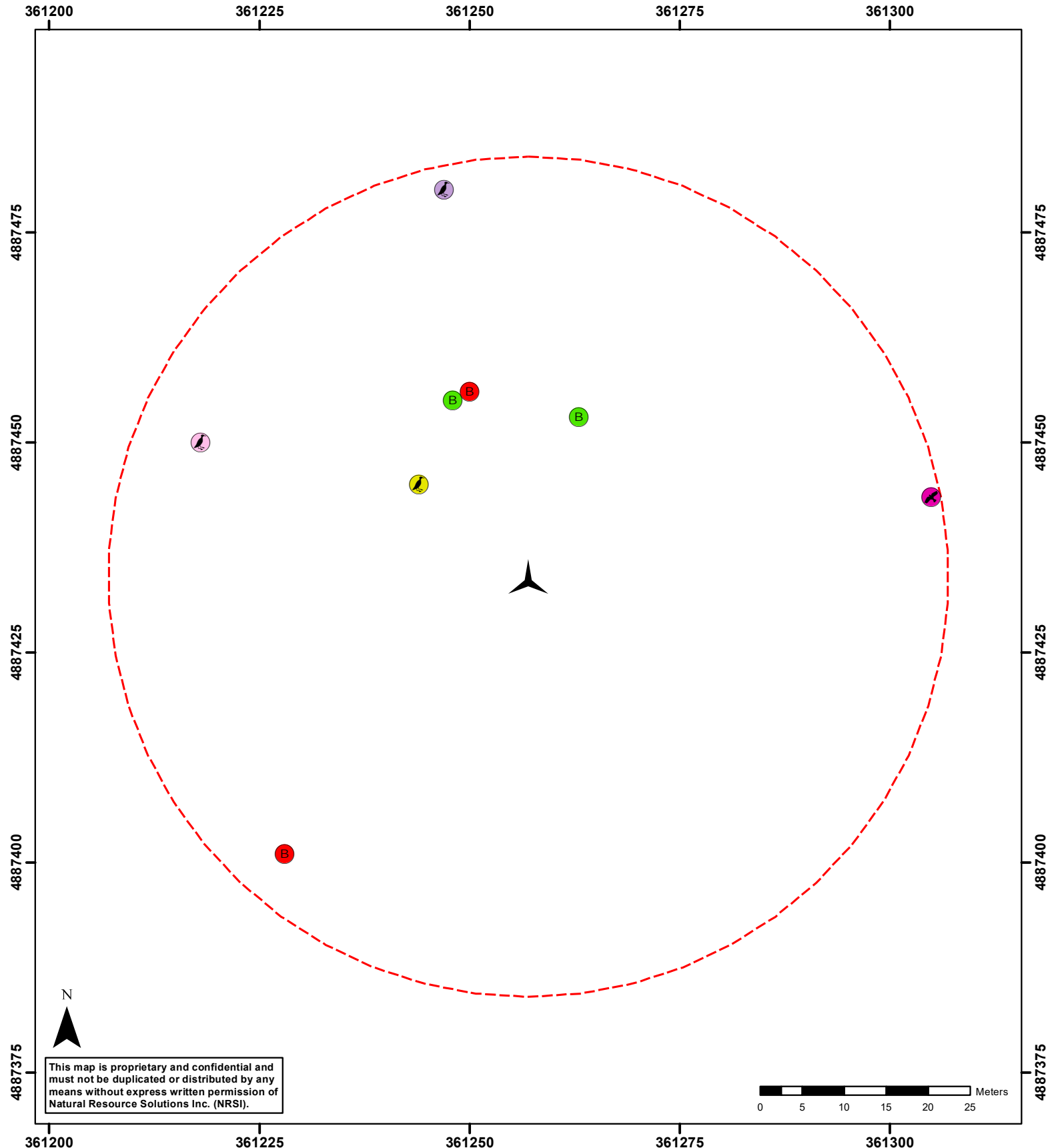




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Legend Turbine Search Radius Big Brown Bat Silver-haired Bat Wilson's Snipe		Appendix VI Amherst Island WP Turbine S02 Mortalities 2019	
NAD83 - UTM Zone 18 Scale: 1:600 (8.5x11")		Date: December 19, 2019 Project: 2121B	
 <small>Aquatic, Terrestrial and Wetland Biologists</small>			



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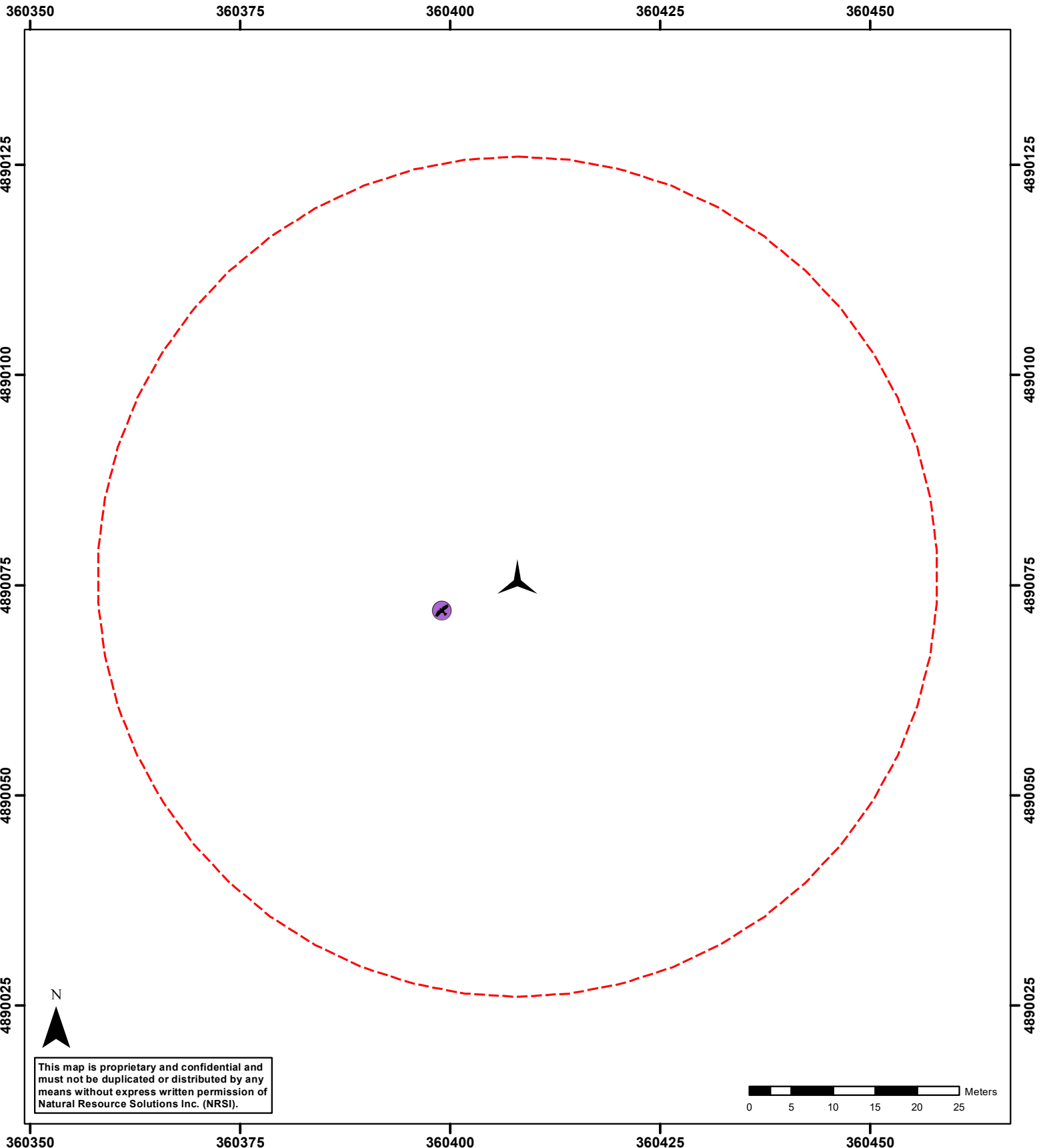
- Legend**
-  Turbine
 -  Eastern Red Bat
 -  Killdeer
 -  Search Radius
 -  Hoary Bat
 -  Wilson's Snipe
 -  European Starling
 -  American Kestrel

Appendix VI
Amherst Island WP
Turbine S03 Mortalities 2019

NAD83 - UTM Zone 18
 Scale: 1:600 (8.5x11")

Date: December 19, 2019
 Project: 2121B








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Legend

-  Turbine
-  Rough-legged Hawk
-  Search Radius

Appendix VI
Amherst Island WP
Turbine S04 Mortalities 2019

NAD83 - UTM Zone 18
 Scale: 1:600 (8.5x11")

Date: December 19, 2019
 Project: 2121B



362625

362650

362675

362700

362725

4888925

4888925

4888900

4888900

4888875

4888875

4888850

4888850

4888825

4888825



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362625












362650

362675

362700

362725

Legend

-  Turbine
-  Big Brown Bat
-  Silver-haired Bat
-  Red-eyed Vireo
-  Search Radius
-  Eastern Red Bat
-  Little Brown Myotis
-  Tree Swallow
-  Hoary Bat
-  Killdeer
-  Peregrine Falcon

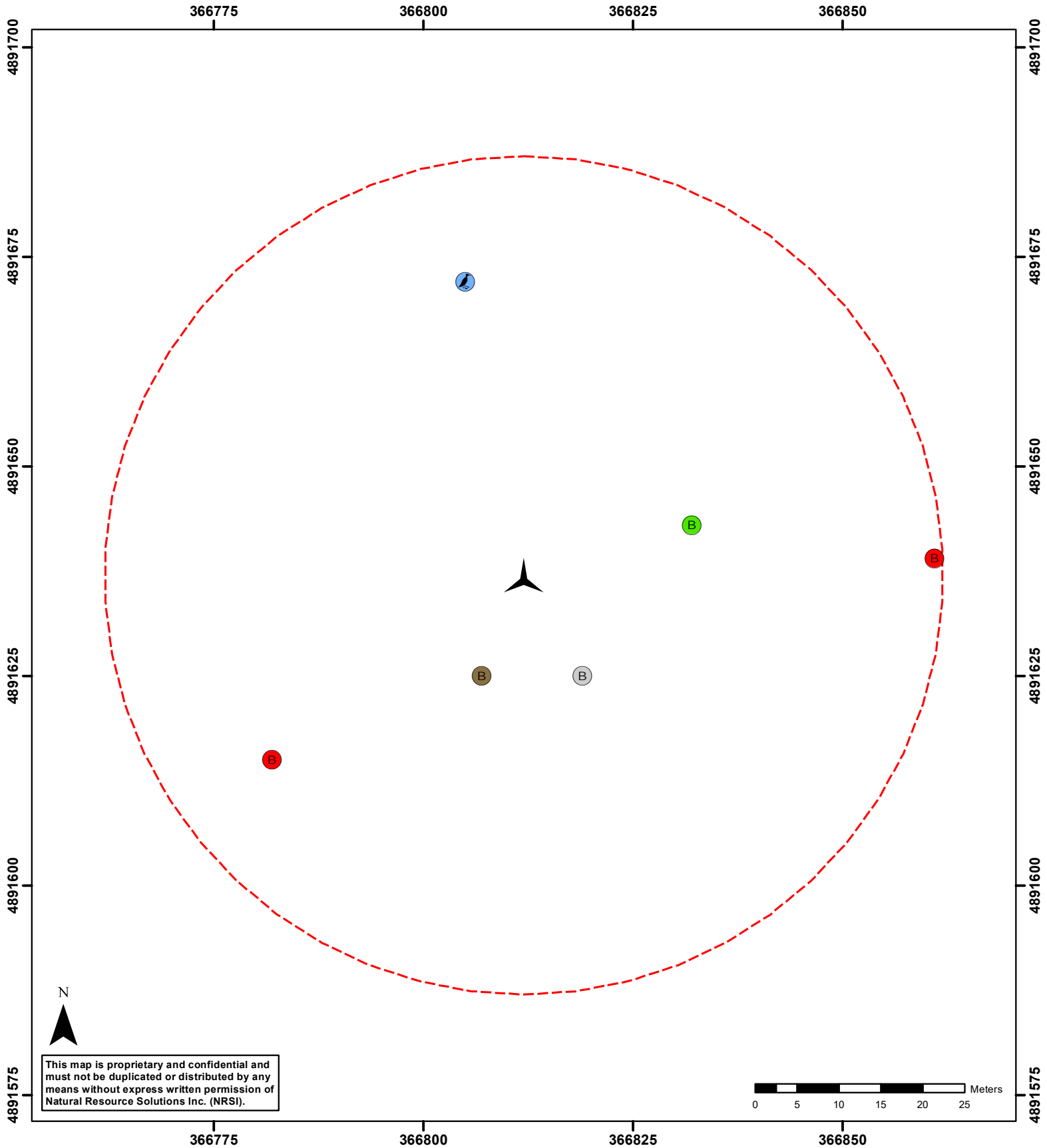
Appendix VI

Amherst Island WP Turbine S05 Mortalities 2019

NAD83 - UTM Zone 18
Scale: 1:600 (8.5x11")

Date: December 19, 2019
Project: 2121B











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Legend

-  Turbine
-  Big Brown Bat
-  Silver-haired Bat
-  Search Radius
-  Eastern Red Bat
-  Bobolink
-  Hoary Bat

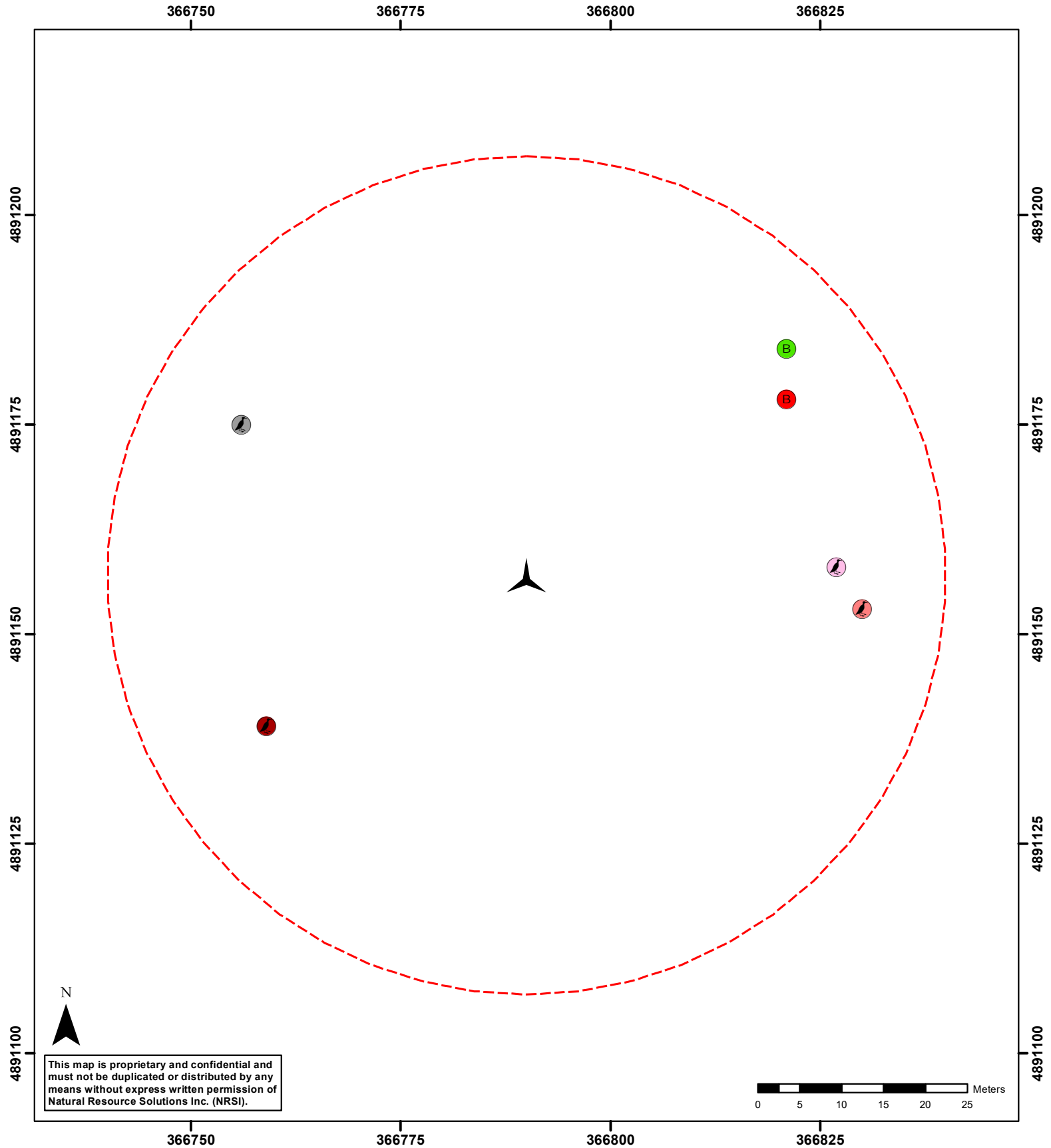
Appendix VI

**Amherst Island WP
Turbine S07 Mortalities 2019**

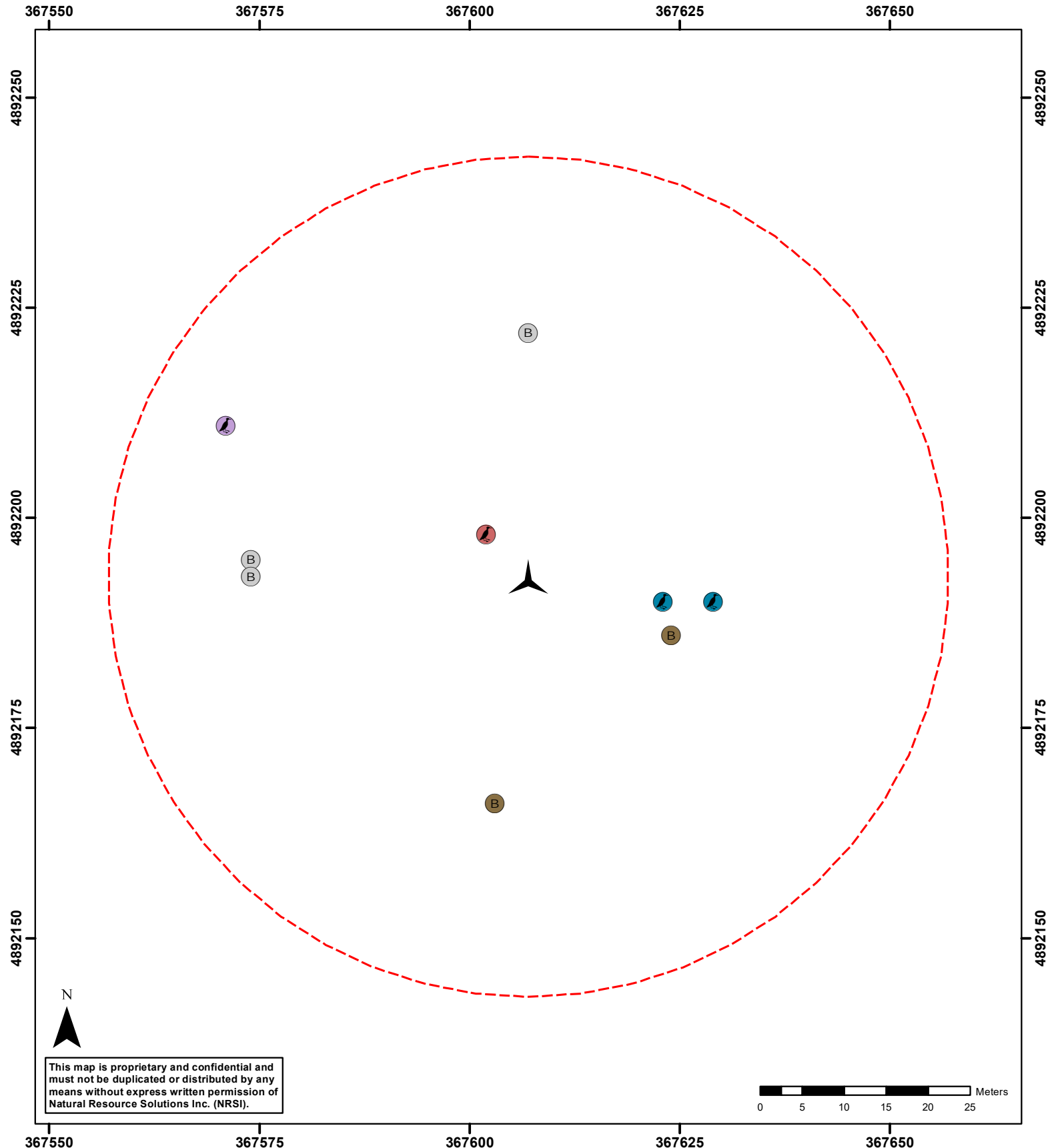
NAD83 - UTM Zone 18
Scale: 1:600 (8.5x11")

Date: December 19, 2019
Project: 2121B

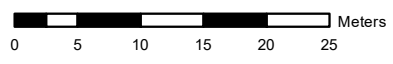




Legend Turbine Search Radius Eastern Red Bat Hoary Bat American Redstart Tree Swallow Warbler sp. Wilson's Snipe			Appendix VI Amherst Island WP Turbine S14 Mortalities 2019 <hr/> NAD83 - UTM Zone 18 Scale: 1:600 (8.5x11") <hr/> Date: December 19, 2019 Project: 2121B <hr/> NATURAL RESOURCE SOLUTIONS INC. <small>Aquatic, Terrestrial and Wetland Biologists</small>
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- Legend**
- Turbine
 - Big Brown Bat
 - Killdeer
 - Search Radius
 - Silver-haired Bat
 - Purple Martin
 - Cedar Waxwing

Appendix VI
Amherst Island WP
Turbine S18 Mortalities 2019

NAD83 - UTM Zone 18
 Scale: 1:600 (8.5x11")

Date: December 19, 2019
 Project: 2121B



361400

361425

361450

361475

361500

4890700

4890700

4890675

4890675

4890650

4890650

4890625

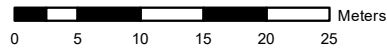
4890625

4890600

4890600



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361400






361425

361450

361475

361500

Legend

-  Turbine
-  Bay-breasted Warbler
-  Search Radius
-  Magnolia Warbler
-  Swainson's Thrush

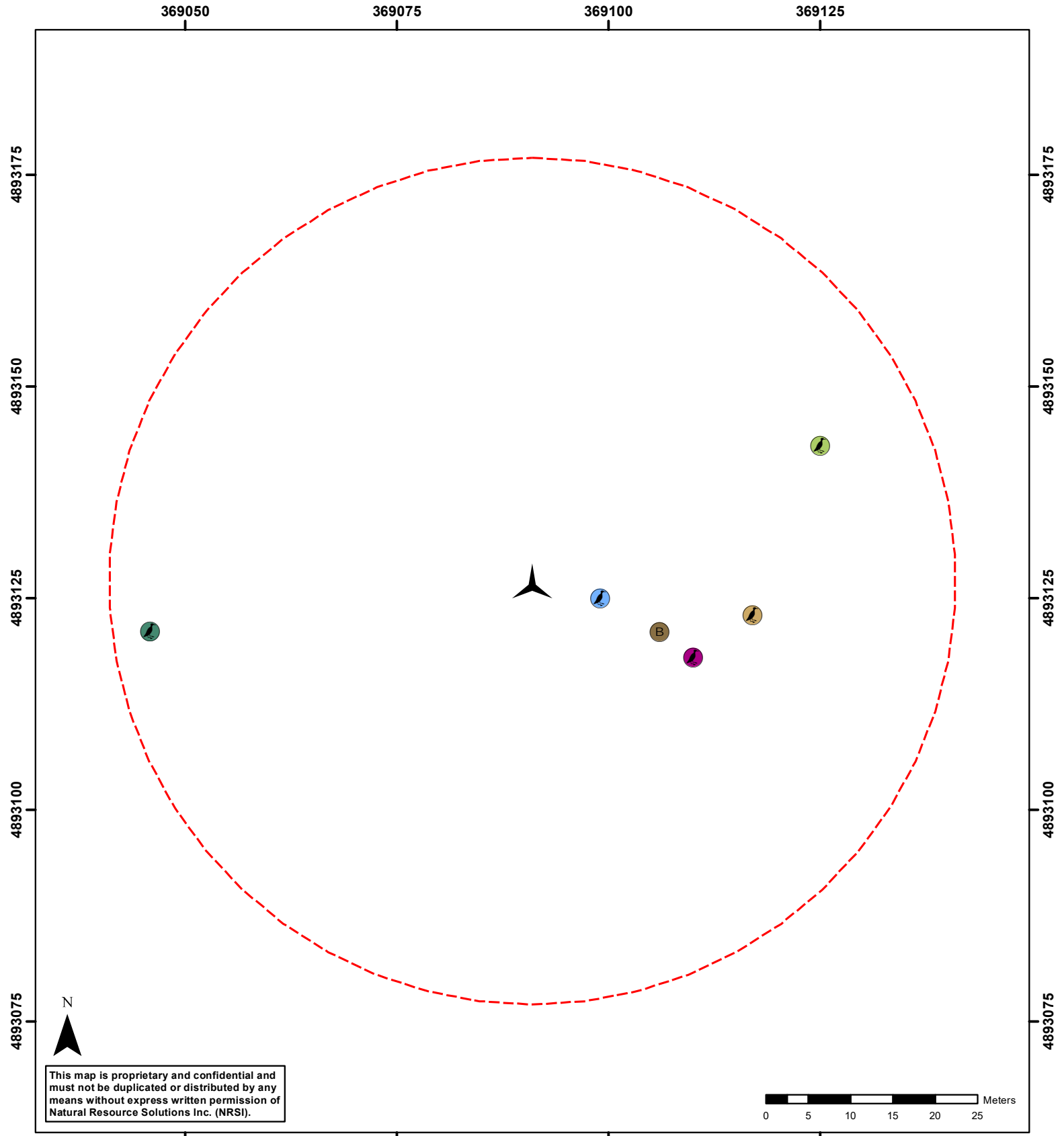
Appendix VI

**Amherst Island WP
Turbine S22 Mortalities 2019**

NAD83 - UTM Zone 18
Scale: 1:600 (8.5x11")

Date: December 19, 2019
Project: 2121B













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Legend


-  Turbine
-  Search Radius
-  Big Brown Bat
-  Bobolink
-  Passerine sp.
-  Red-eyed Vireo
-  Ruby-crowned Kinglet
-  Swallow sp.

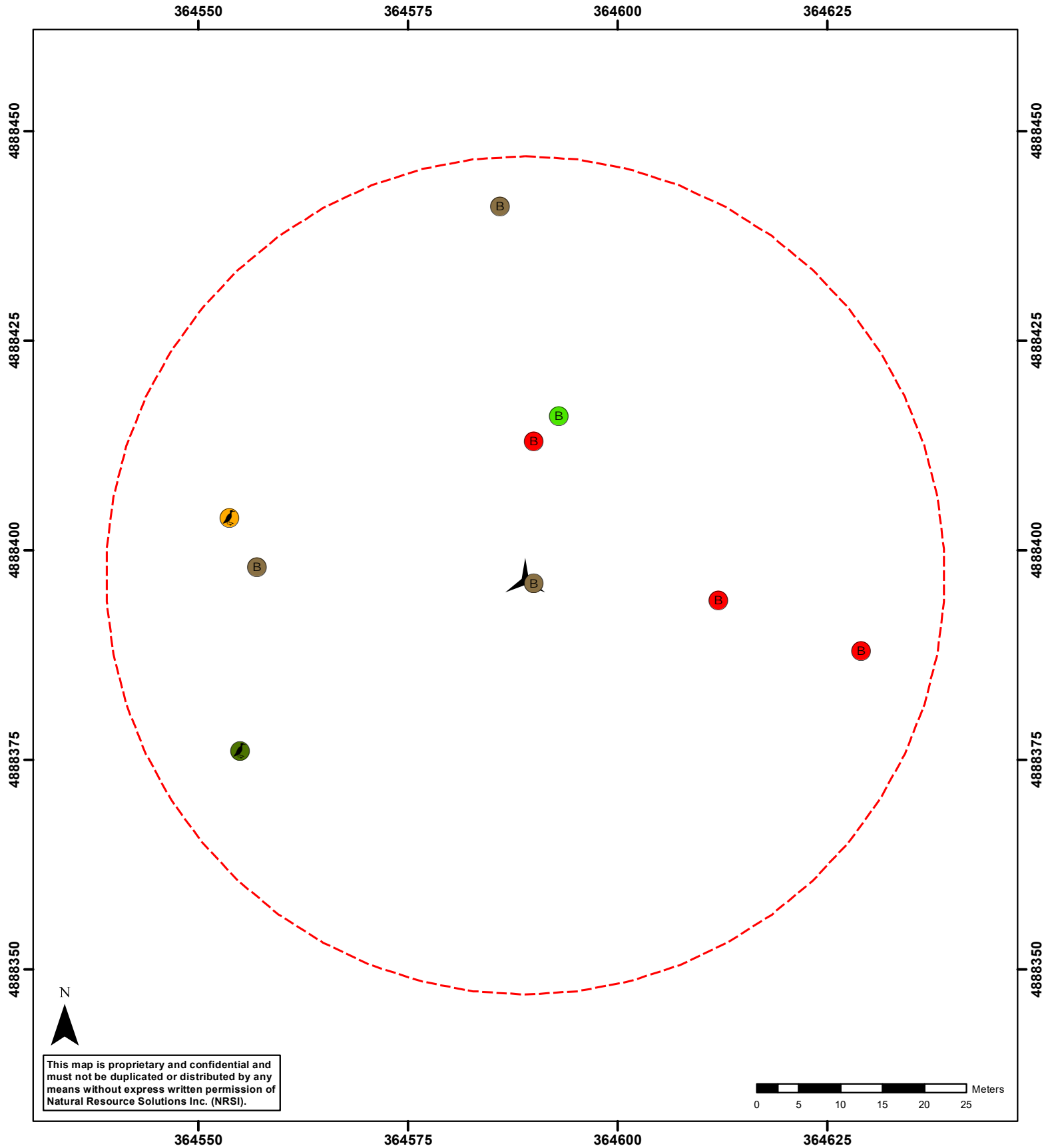
Appendix VI

Amherst Island WP

Turbine S28 Mortalities 2019

NAD83 - UTM Zone 18 Scale: 1:600 (8.5x11")	Date: December 19, 2019 Project: 2121B
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Legend Turbine Big Brown Bat Golden-crowned Kinglet Search Radius Eastern Red Bat Palm Warbler Hoary Bat			Appendix VI Amherst Island WP Turbine S36 Mortalities 2019	
NAD83 - UTM Zone 18 Scale: 1:600 (8.5x11")		Date: December 19, 2019 Project: 2121B		
NATURAL RESOURCE SOLUTIONS INC. <small>Aquatic, Terrestrial and Wetland Biologists</small>				

Appendix VII
Visibility Class Mapping

Visibility Class Map

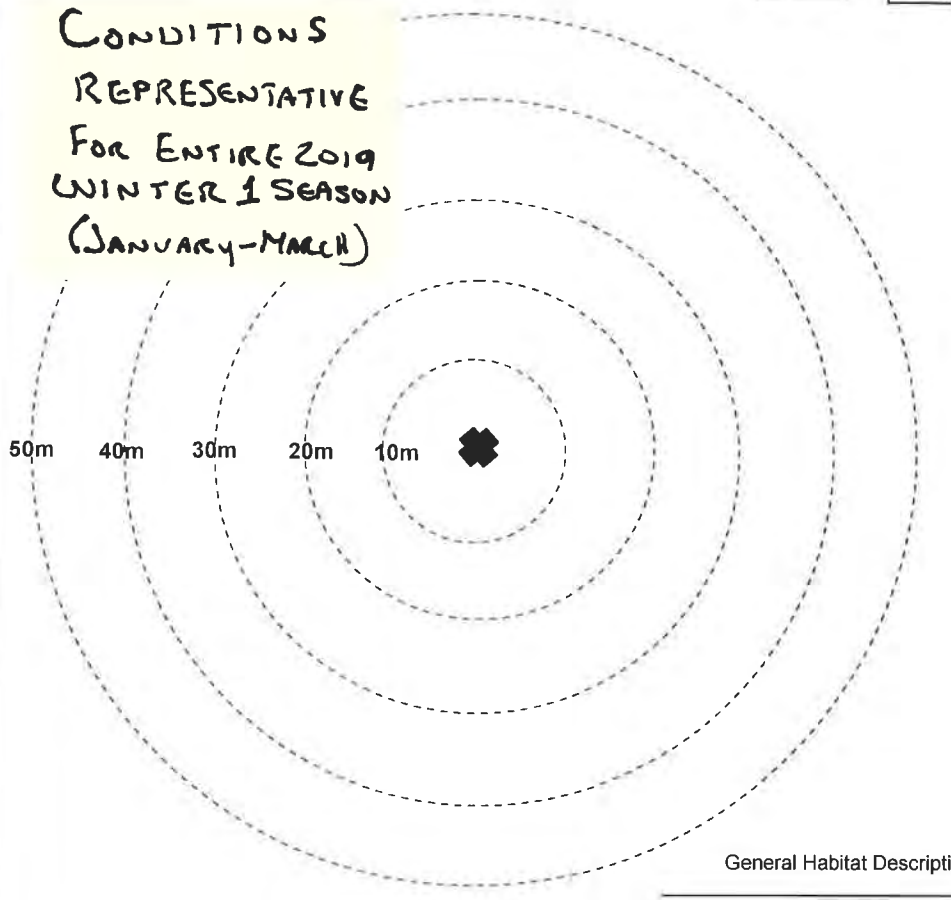
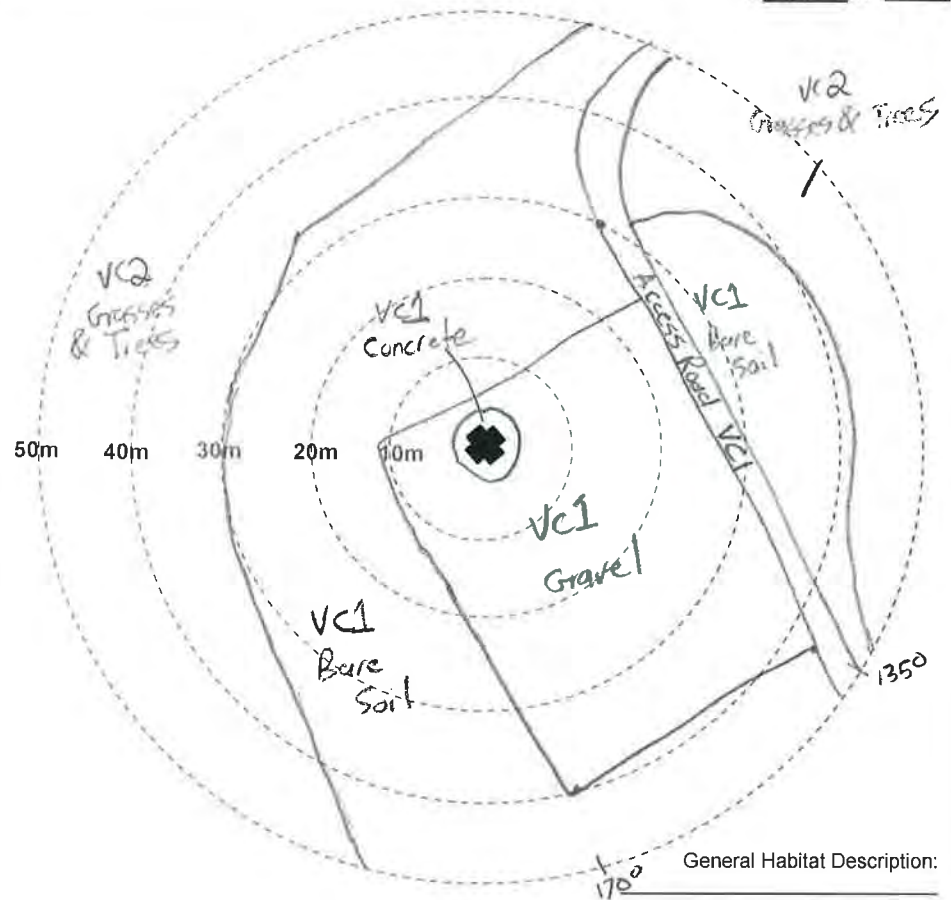
Project Name: Amherst Island WP Project #: 2121A Turbine #: 501 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 2775
 Facing East: 2776
 Facing South: 2777
 Facing West: 2778
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 11/02/19
 Observer: BAH
 Monthly/Seasonal
 Linear Transect Width: 5 m

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



CONDITIONS
 REPRESENTATIVE
 FOR ENTIRE 2019
 WINTER 1 SEASON
 (JANUARY-MARCH)

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121B Turbine #: SO1 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

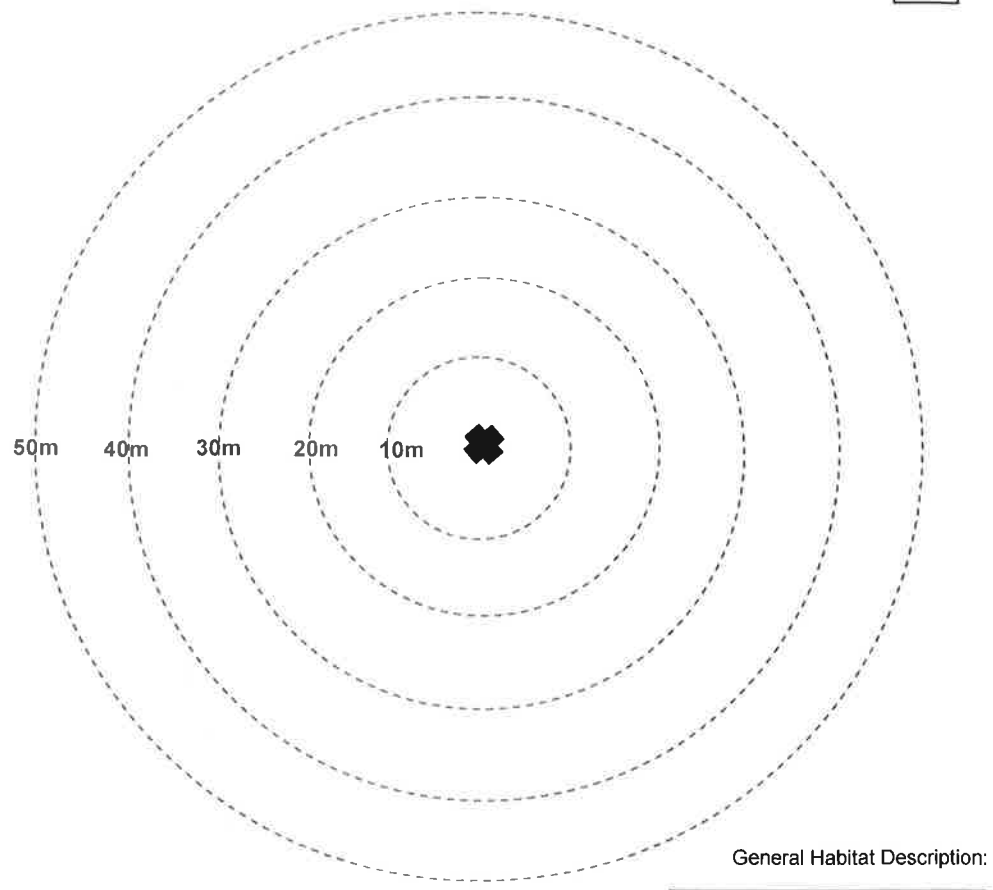
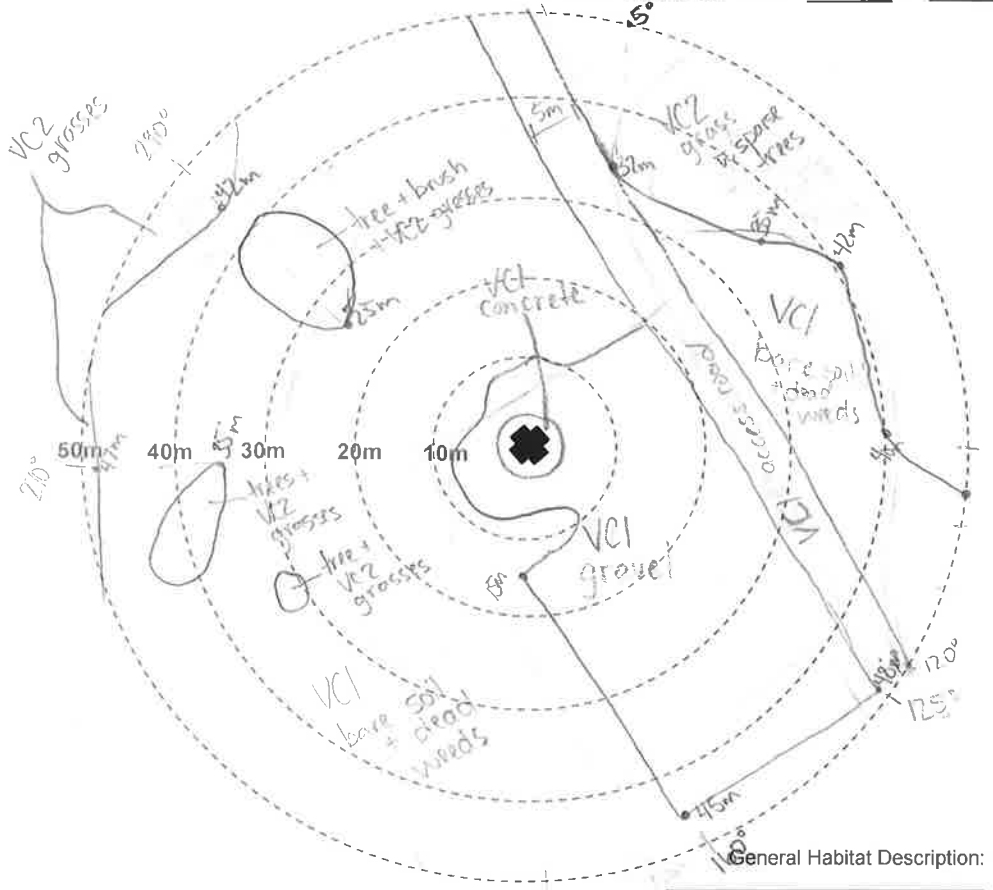
Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 05/04/19
 Observer: Shelby H.
 Monthly/Seasonal
 Linear Transect Width: 5 m



Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amber's bandUP Project #: 21212 Turbine #: 501 Degree of Slope S -2 N x 3 +0.5 degrees Slope Orientation N (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: 2117
 Facing South: 2118
 Facing West: 2119
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 17/05/19
 Observer: JLR
 Monthly/Seasonal
 Linear Transect Width: 5 m

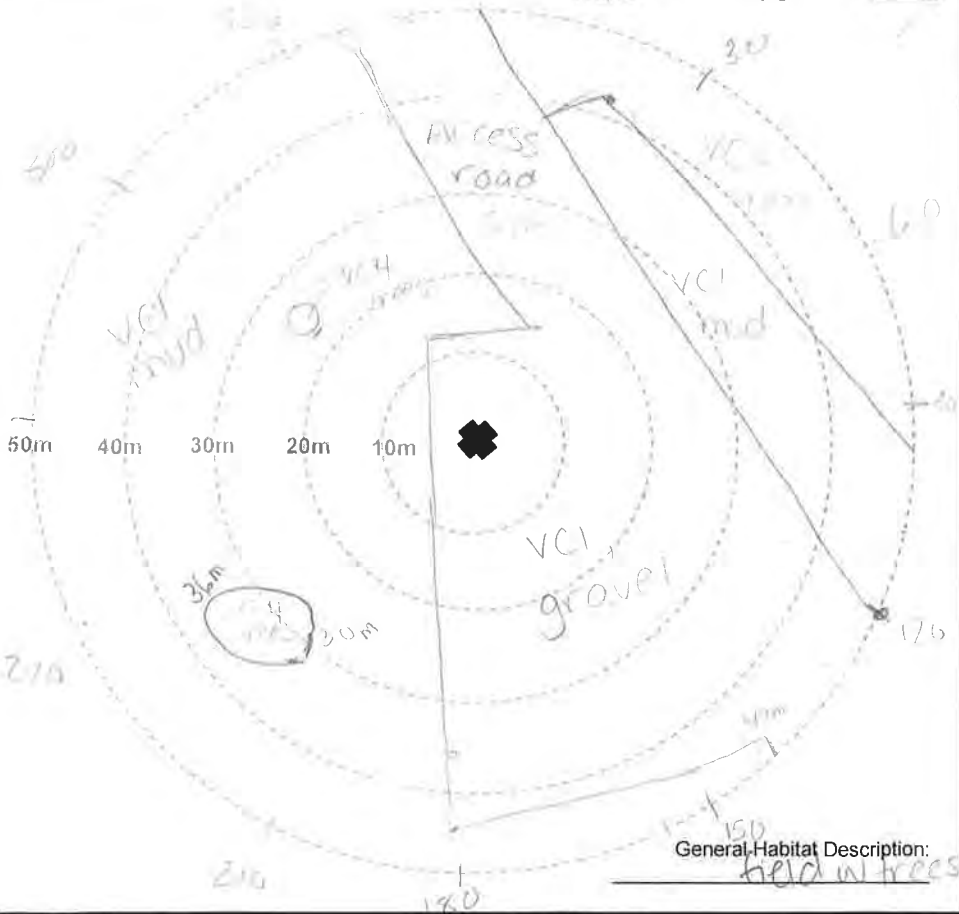
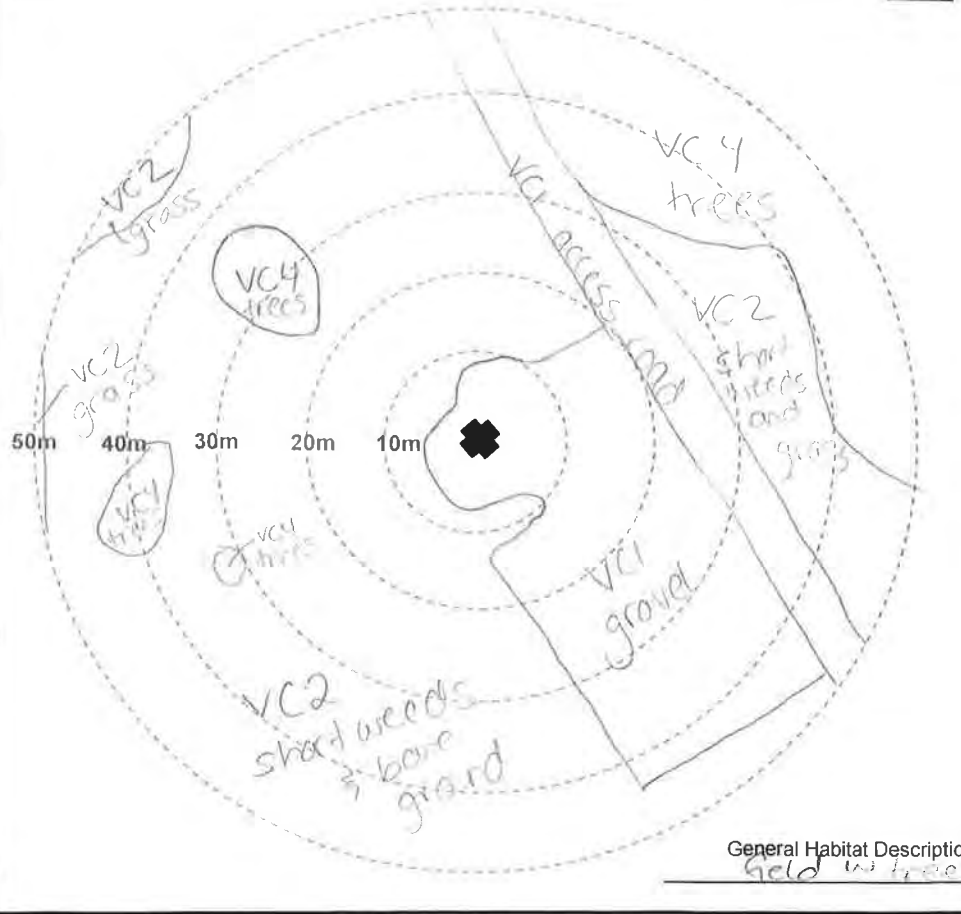


Photo Numbers (from turbine base)
 Facing North: 2168
 Facing East: 21171
 Facing South: 2170
 Facing West: 2171
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 17/06/19
 Observer: JLR
 Monthly/Seasonal
 Linear Transect Width: 5 m



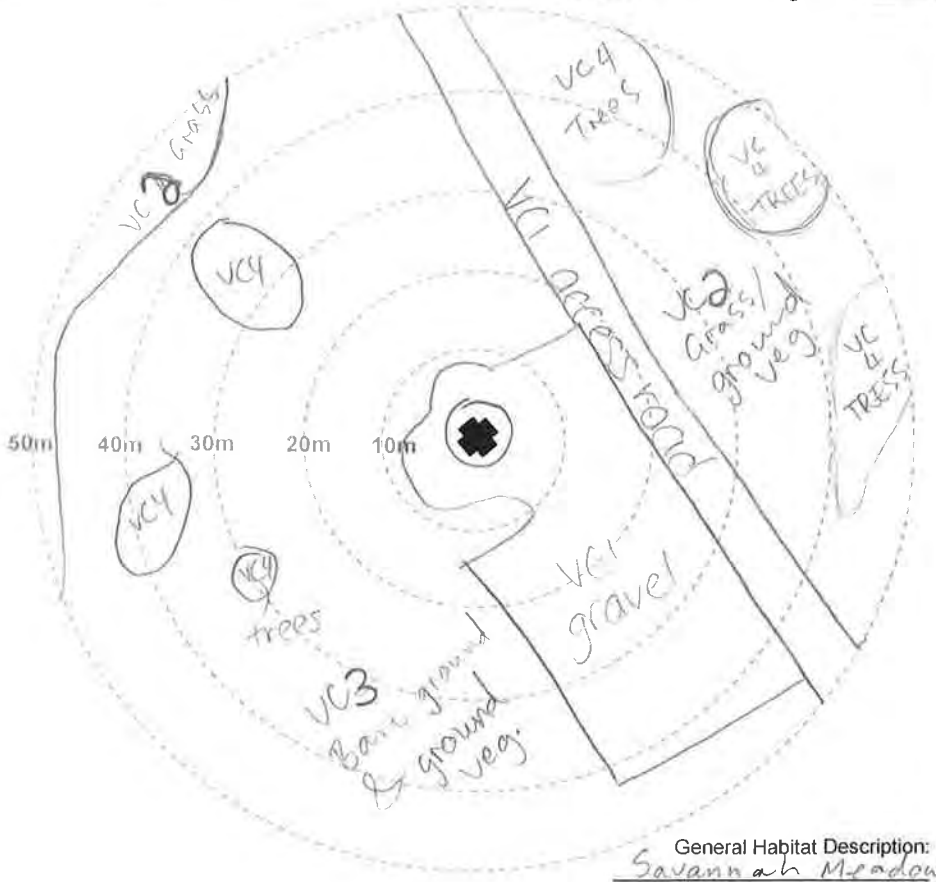
VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Ambrose Island W.P. Project #: 2121B Turbine #: 501

Photo Numbers (from turbine base)
 Facing North: 124749
 Facing East: 124750
 Facing South: 124751
 Facing West: 124752
 (sketch habitat and visibility classes)

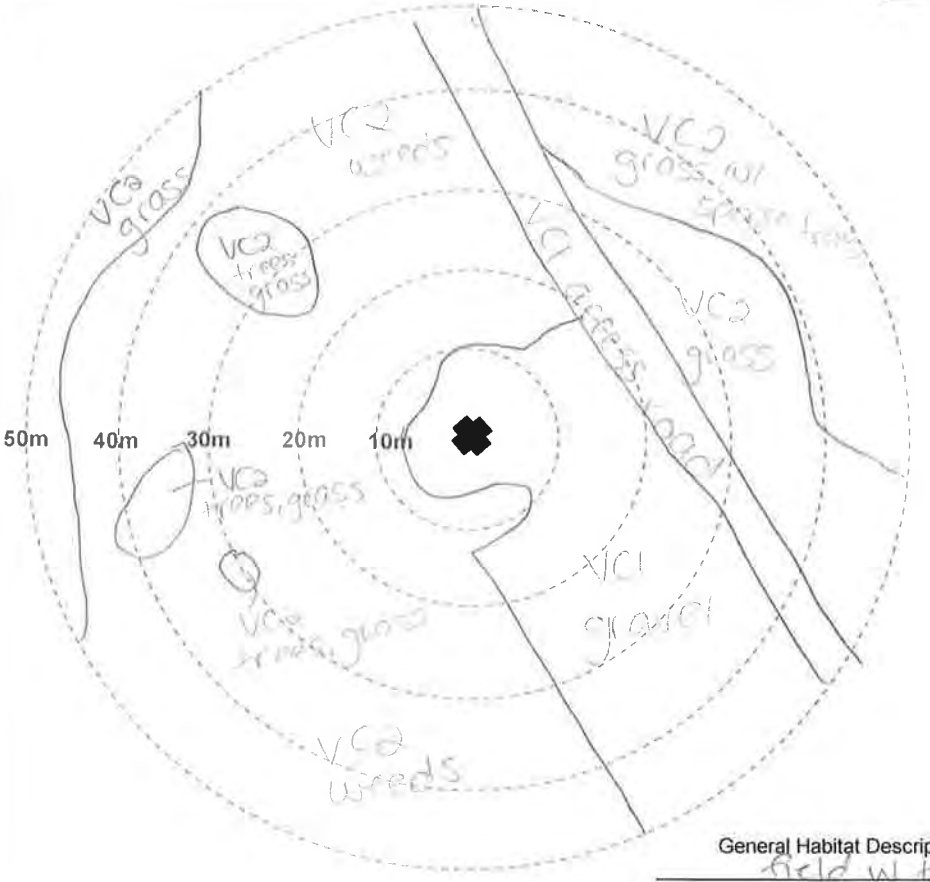
Date (DD/MM/YY): 09/07/19
 Observer: MRI
 Monthly/Seasonal
 Linear Transect Width: 5 m



General Habitat Description:
Savannah Meadow
Treed

Photo Numbers (from turbine base)
 Facing North: 2776
 Facing East: 2777
 Facing South: 2778
 Facing West: 2779
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 09/08/19
 Observer: KIP
 Monthly/Seasonal
 Linear Transect Width: 5 m



General Habitat Description:
field w/ trees

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121B Turbine #: 501

Photo Numbers (from turbine base)
 Facing North: 102914
 Facing East: 102915
 Facing South: 102916
 Facing West: 102917
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 10/09/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 5 m

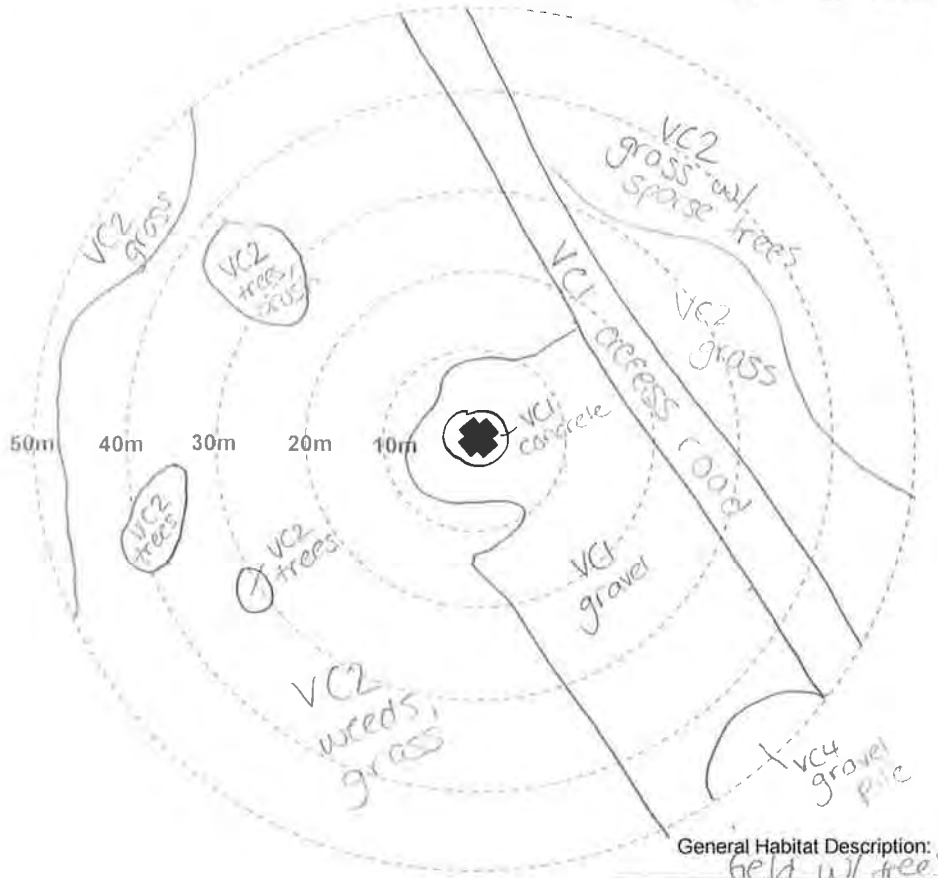
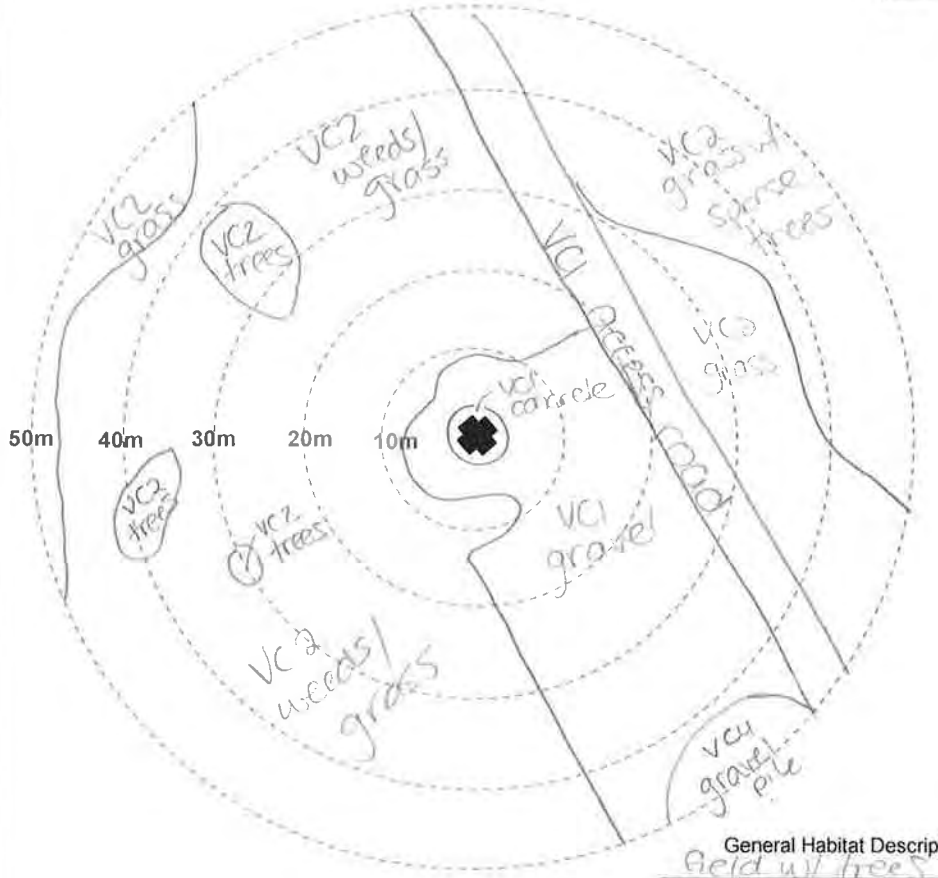


Photo Numbers (from turbine base)
 Facing North: 102911
 Facing East: 102912
 Facing South: 102913
 Facing West: 102914
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 24/10/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 5 m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

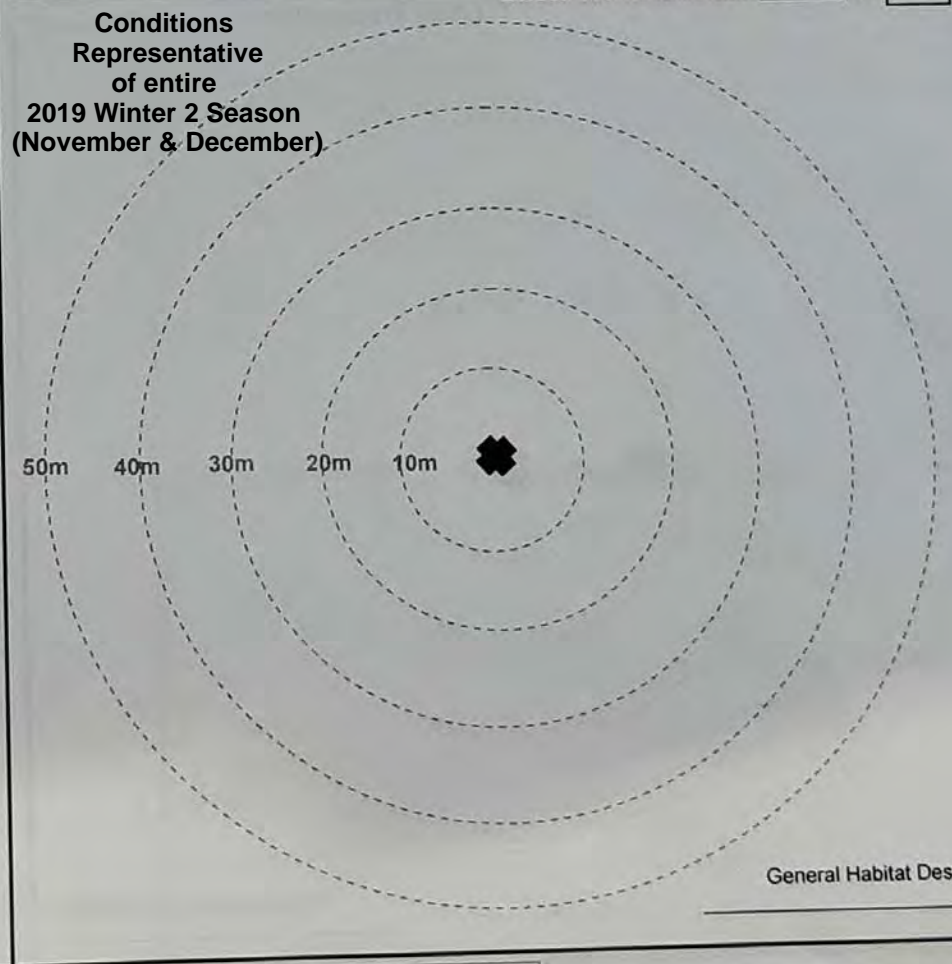
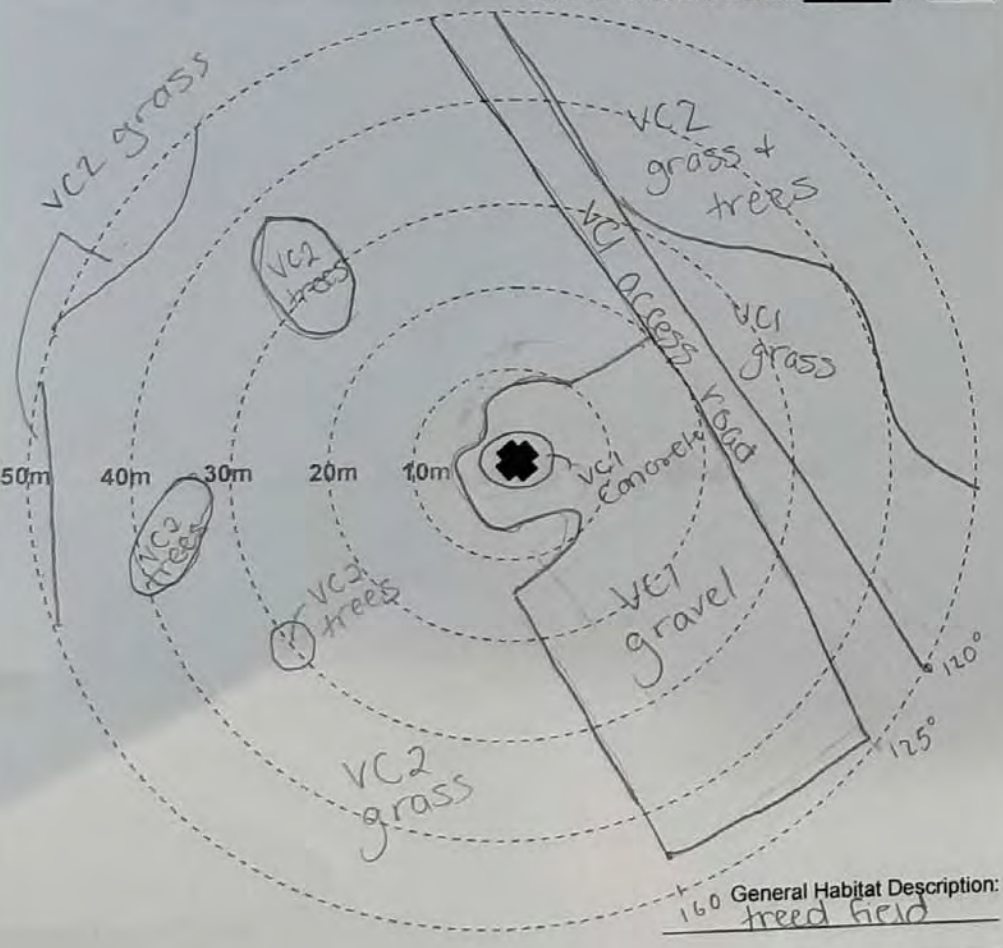
Project Name: Amherst Island WP Project #: 21218 Turbine #: 501 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 221228
 Facing East: 221229
 Facing South: 221230
 Facing West: 221231
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 22/12/19
 Observer: J4B
 Monthly/Seasonal
 Linear Transect Width: 5 m

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



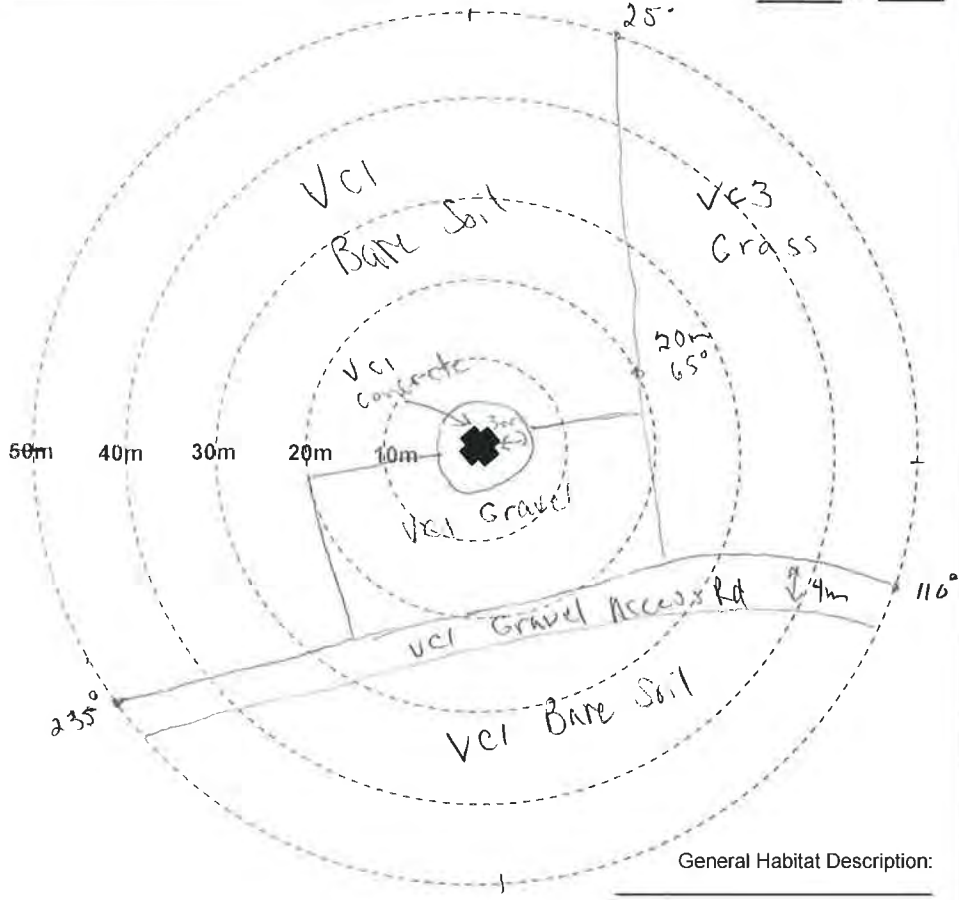
VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121A Turbine #: 502 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 3223
 Facing East: 3224
 Facing South: 3225
 Facing West: 3226
 (sketch habitat and visibility classes)

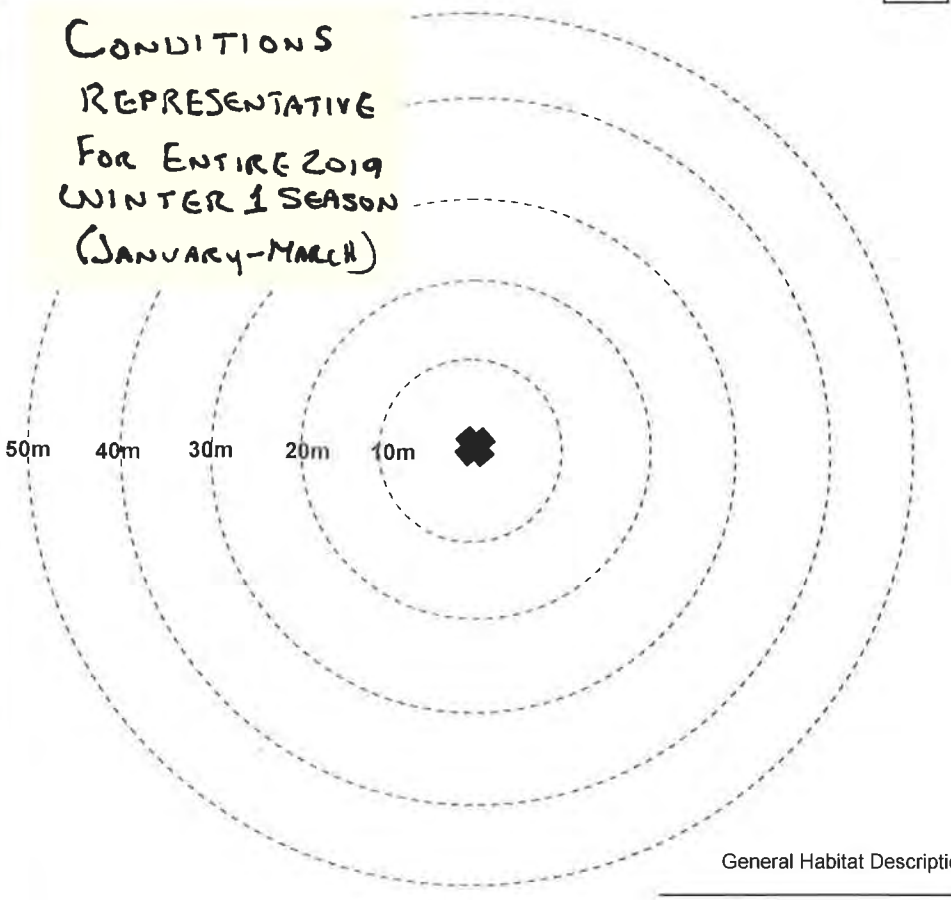
Date (DD/MM/YY): 08/02/19
 Observer: KMH
 Monthly/Seasonal Linear Transect Width: 5 m



General Habitat Description: _____

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___
 Observer: _____
 Monthly/Seasonal Linear Transect Width: _____ m



General Habitat Description: _____

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

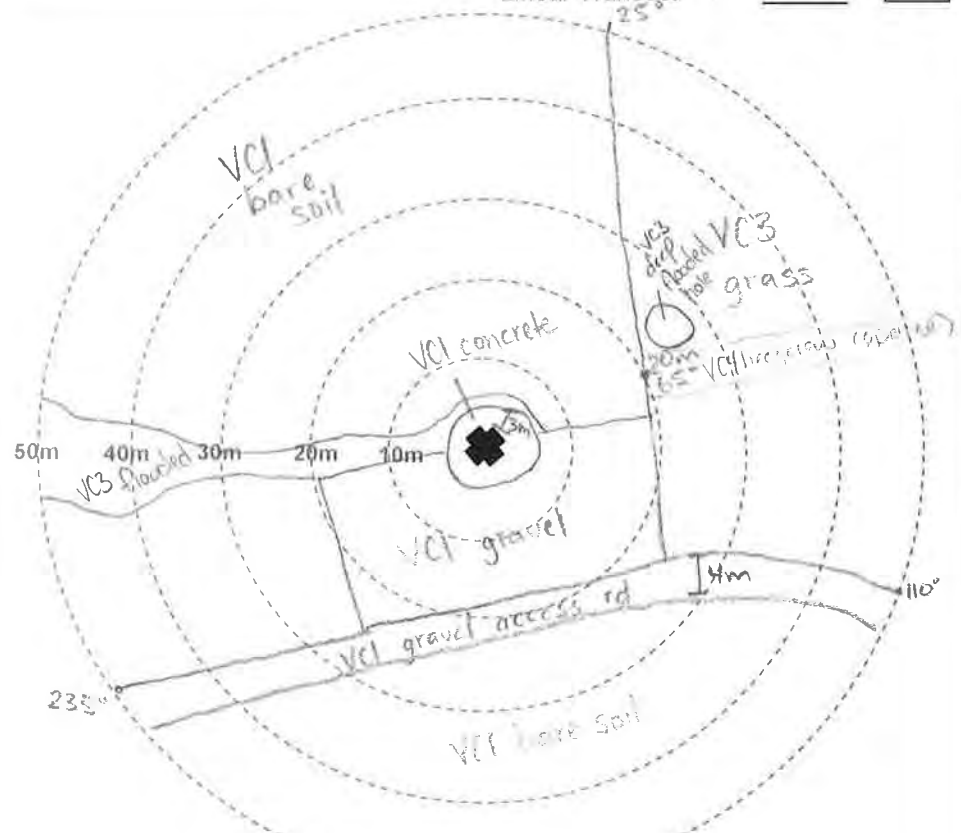
Project Name: Amherst Island W/P Project #: 2121B Turbine #: 502 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 05/04/19

Observer: Shelby H.

Monthly/Seasonal
 Linear Transect Width: 5 m



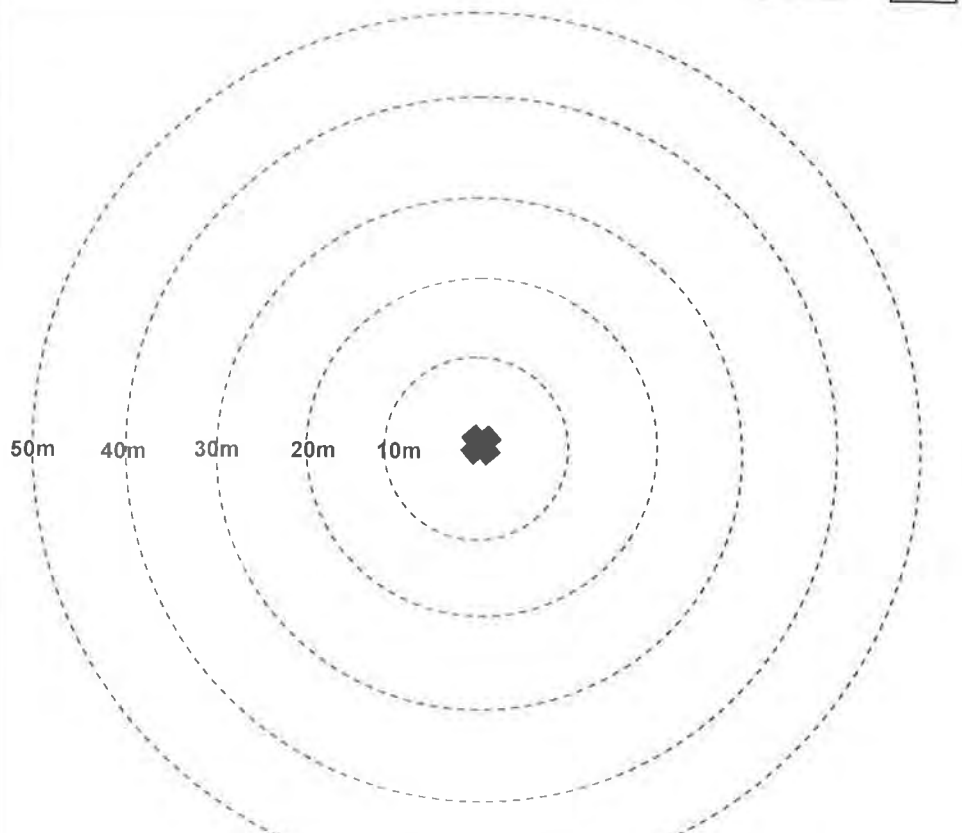
General Habitat Description: _____

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ____/____/____

Observer: _____

Monthly/Seasonal
 Linear Transect Width: _____ m



General Habitat Description: _____

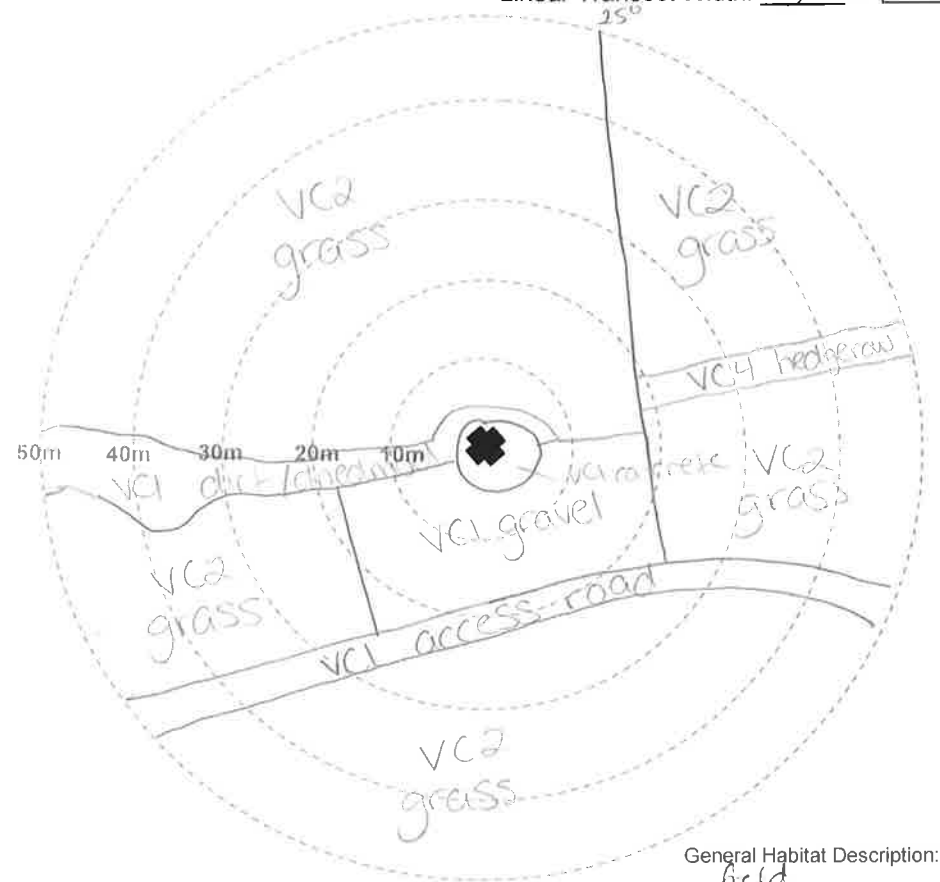
VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2018 Turbine #: 502

Photo Numbers (from turbine base)
 Facing North: 2550
 Facing East: 2551
 Facing South: 2552
 Facing West: 2553
 (sketch habitat and visibility classes)

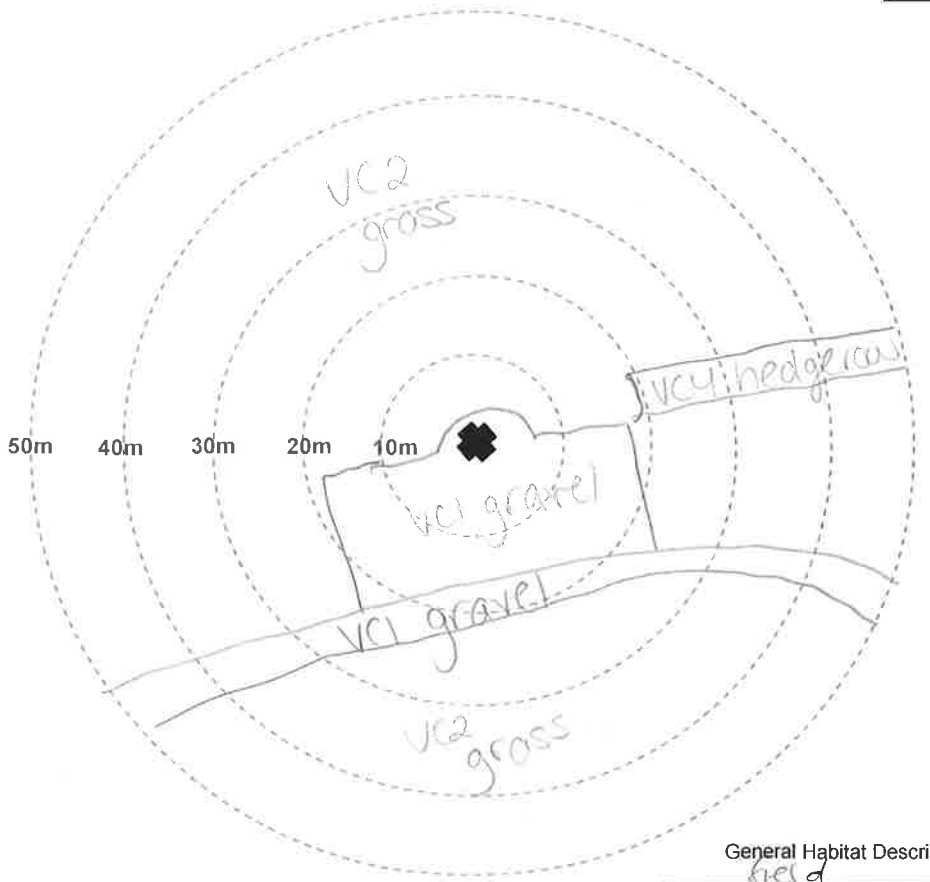
Date (DD/MM/YY): 08/07/19
 Observer: JLB
 Monthly/Seasonal
 Linear Transect Width: 5 m



General Habitat Description: field

Photo Numbers (from turbine base)
 Facing North: 2746
 Facing East: 2747
 Facing South: 2748
 Facing West: 2749
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 05/08/19
 Observer: JLB
 Monthly/Seasonal
 Linear Transect Width: 5 m



General Habitat Description: field

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amberst Island WP Project #: 2191P Turbine #: 500

Photo Numbers (from turbine base)
 Facing North: 90921
 Facing East: 90922
 Facing South: 90923
 Facing West: 90924
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 09/09/19

Observer: NB

Monthly/Seasonal
 Linear Transect Width: 5 m

↑
N

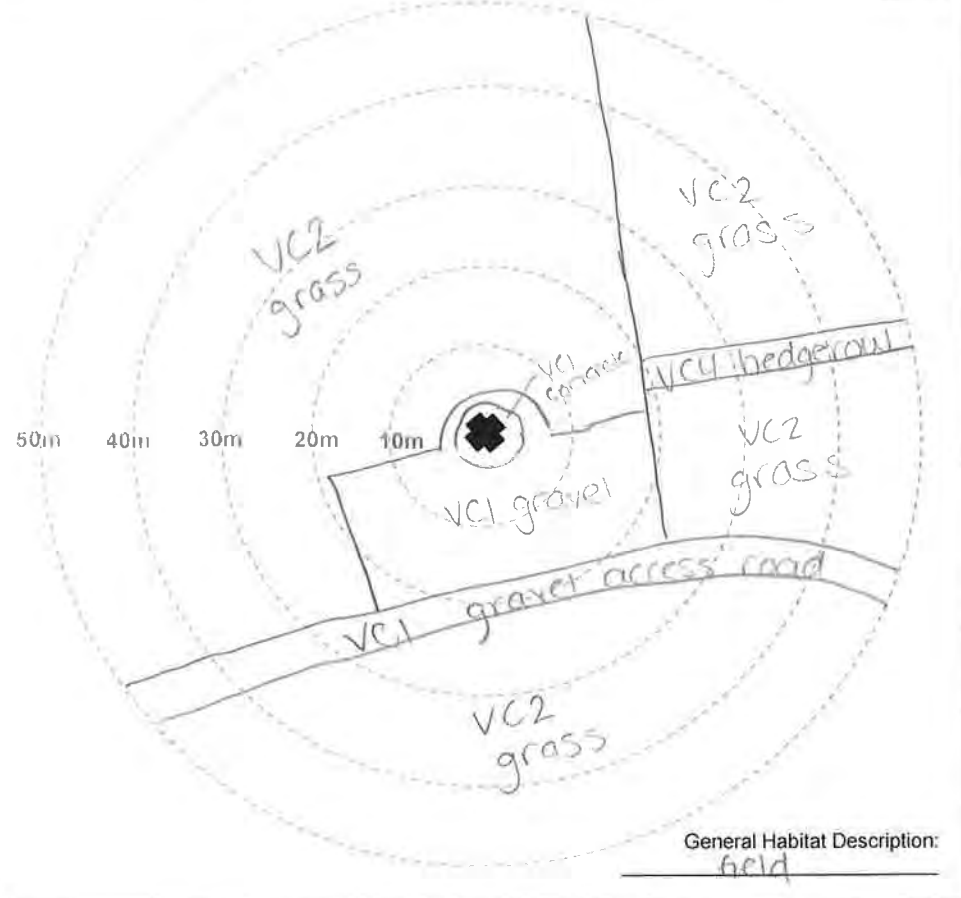


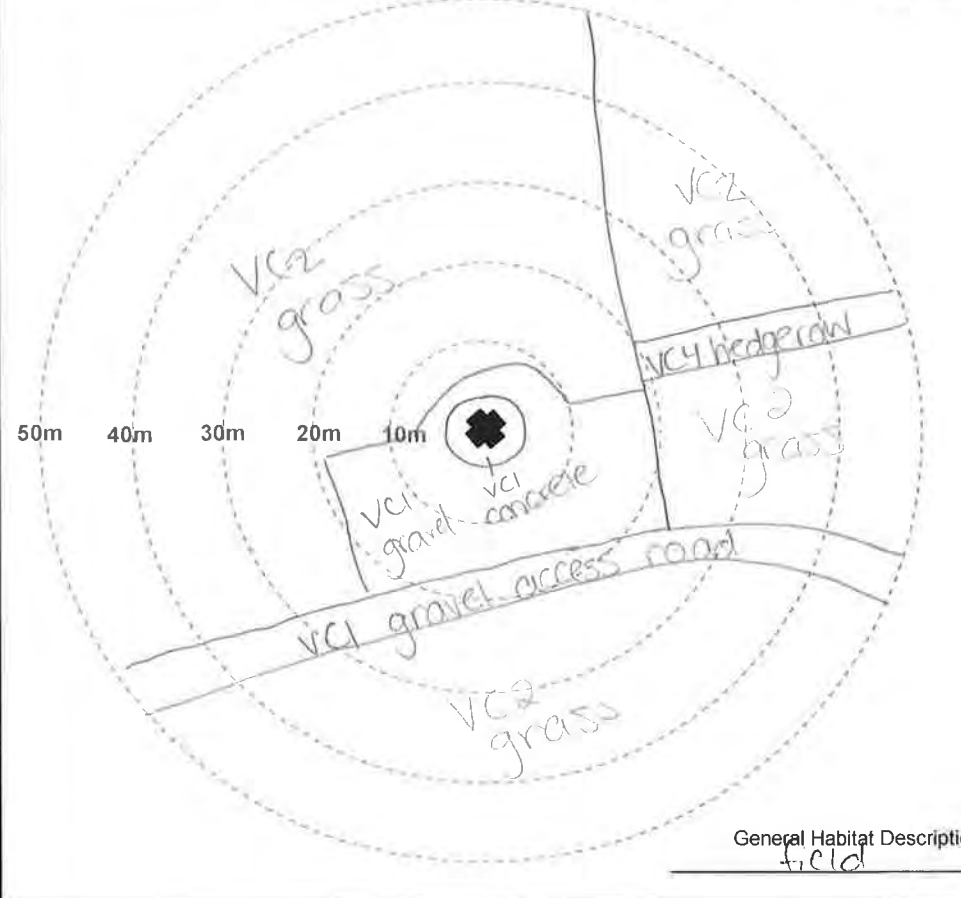
Photo Numbers (from turbine base)
 Facing North: 102423
 Facing East: 102424
 Facing South: 102425
 Facing West: 102426
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 24/10/19

Observer: JYP

Monthly/Seasonal
 Linear Transect Width: 5 m

↑
N



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121B Turbine #: 502

Photo Numbers (from turbine base)
 Facing North: 231233
 Facing East: 231234
 Facing South: 231235
 Facing West: 231236
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 23/12/19
 Observer: JUB
 Monthly/Seasonal
 Linear Transect Width: 5 m

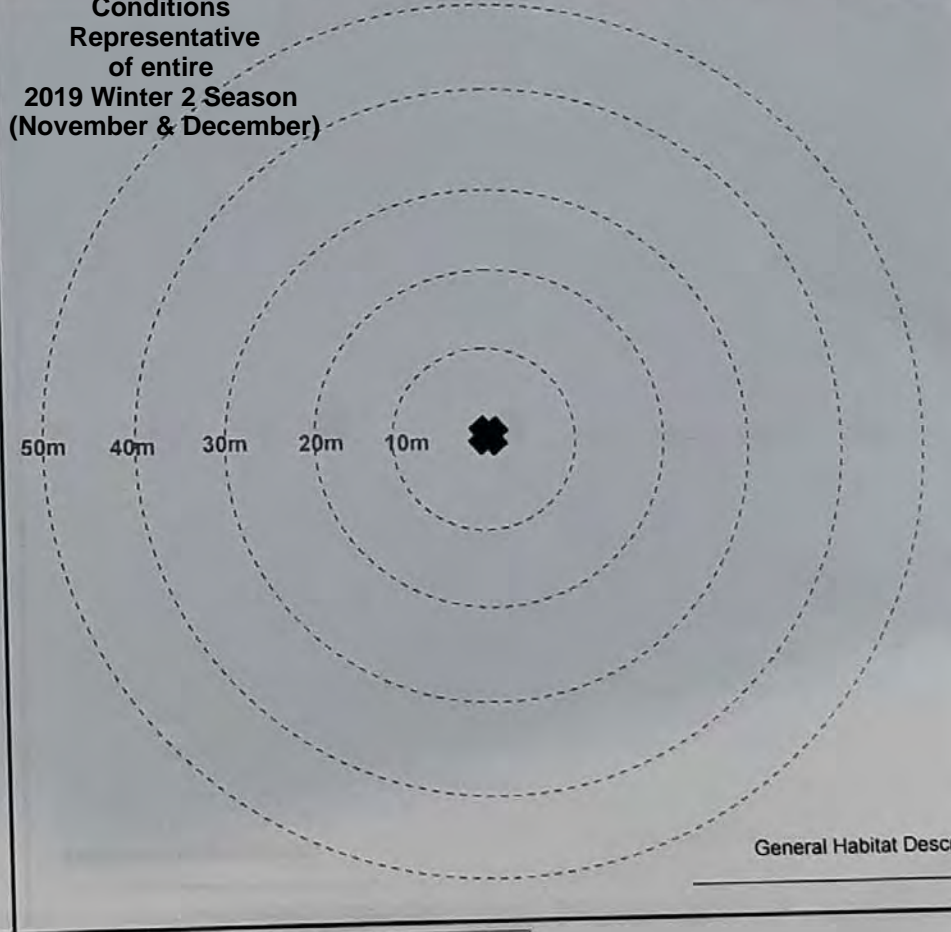
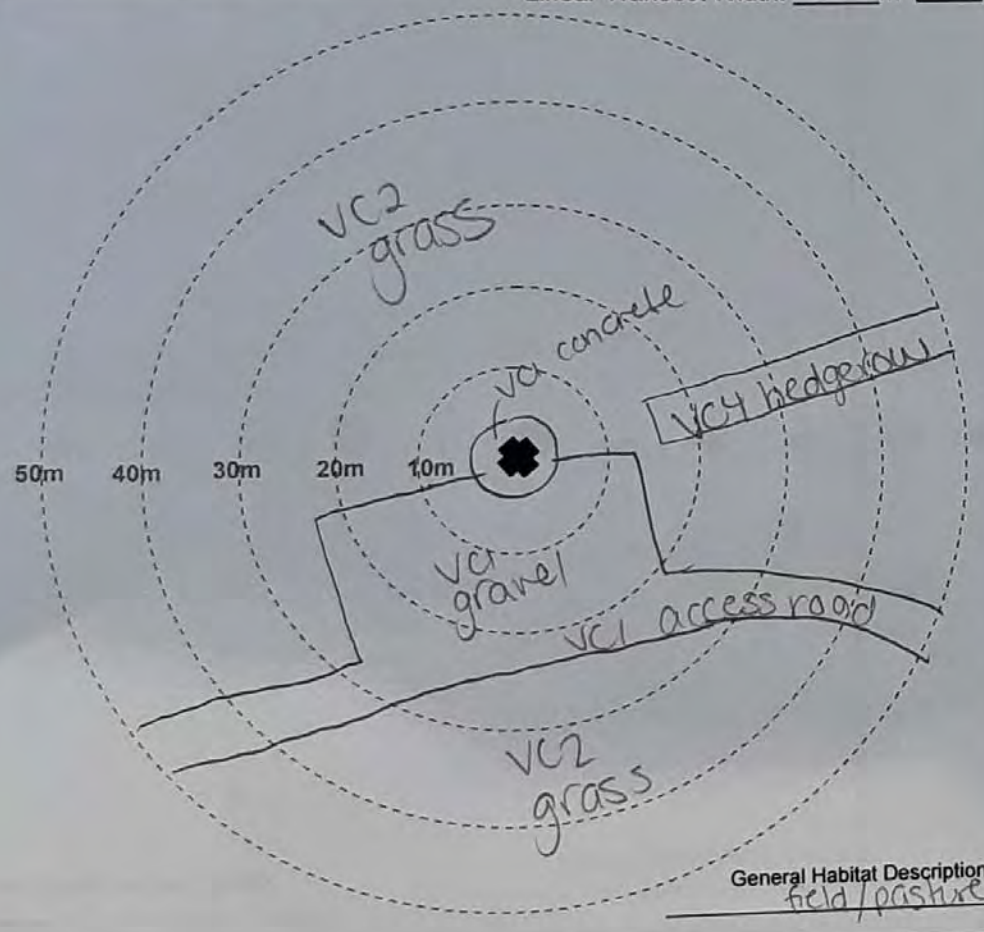


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



Conditions
 Representative
 of entire
 2019 Winter 2 Season
 (November & December)



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121A Turbine #: 503 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 2838
 Facing East: 2839
 Facing South: 2840
 Facing West: 2841
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 14/02/19

Observer: BAH

Monthly/Seasonal Linear Transect Width: 5 m

↑
N

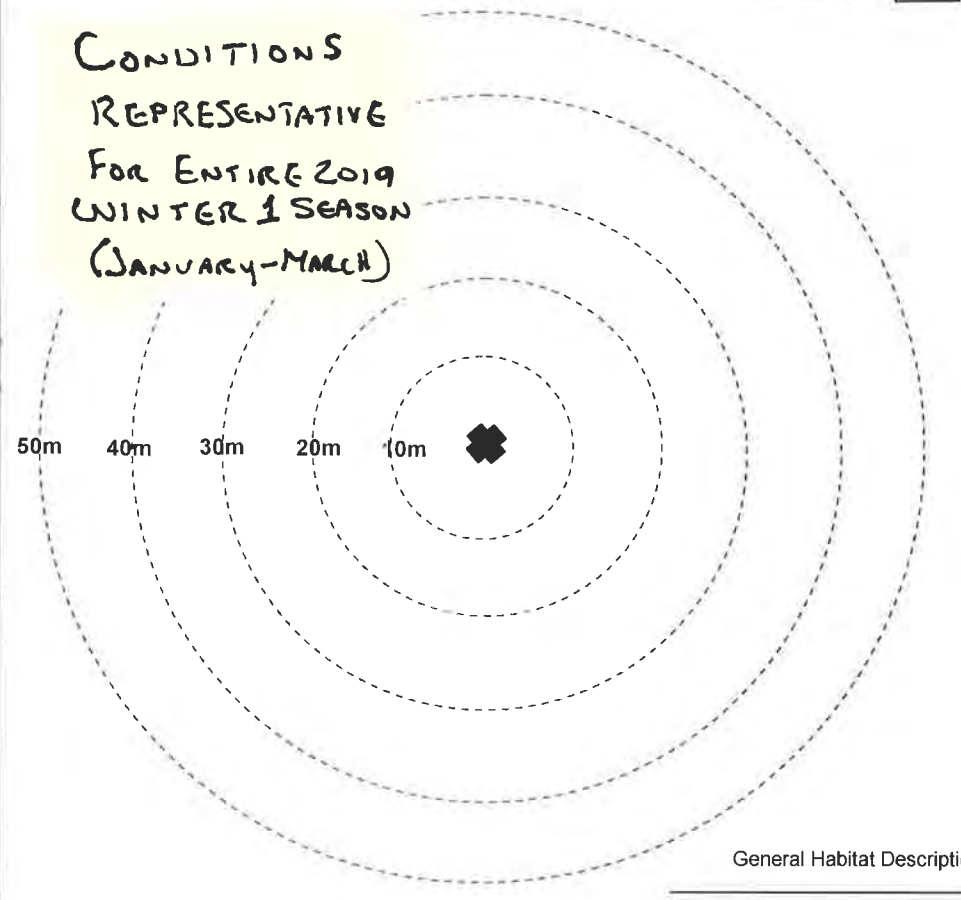
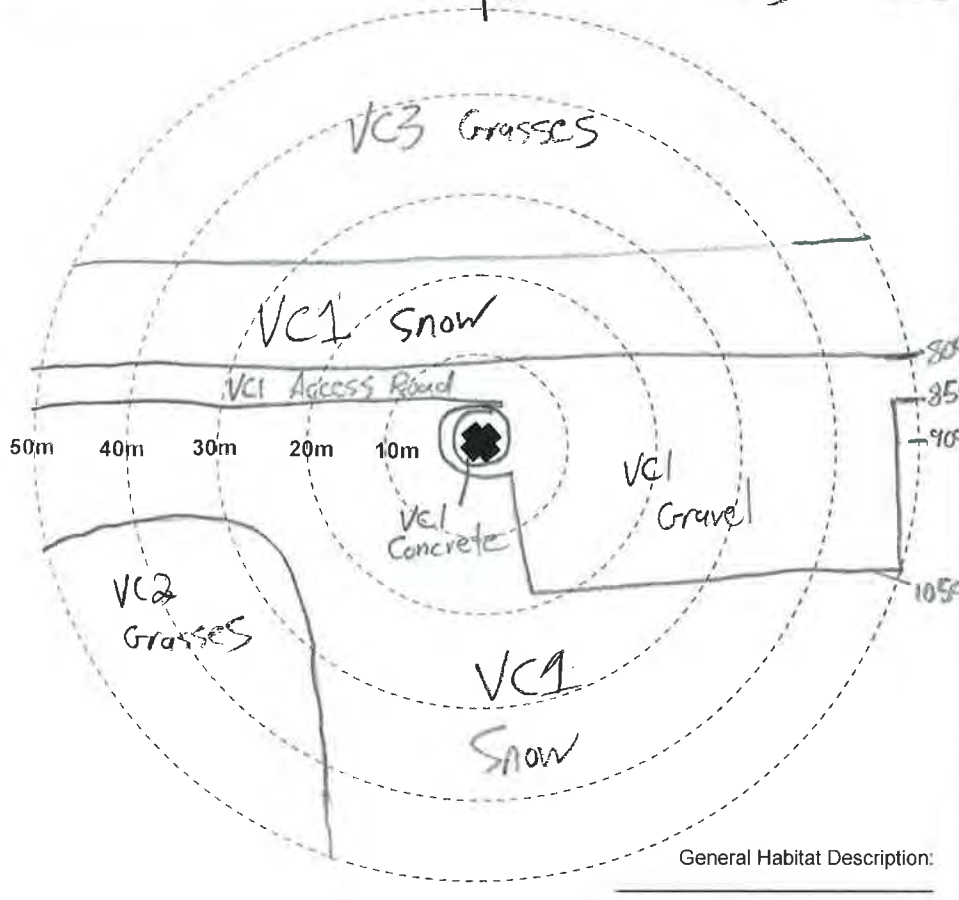
Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___

Observer: _____

Monthly/Seasonal Linear Transect Width: _____ m

↑
N



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121B Turbine #: 503 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

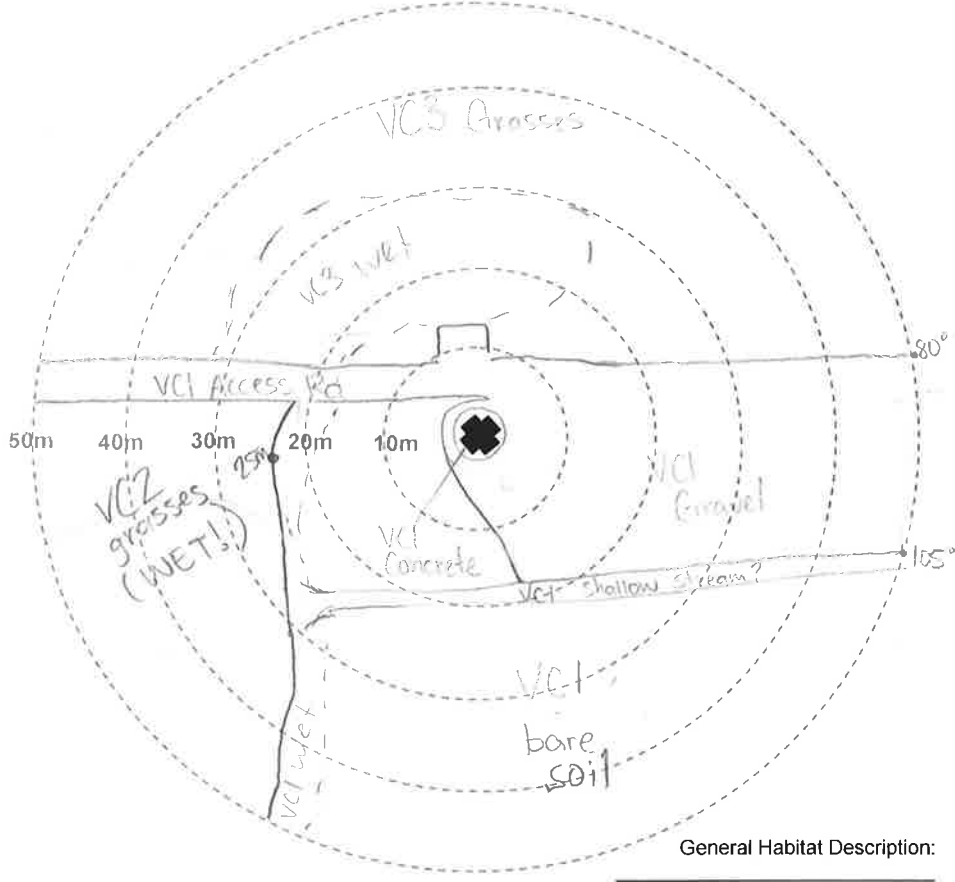
Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 05/04/19
 Observer: Shelby H.
 Monthly/Seasonal
 Linear Transect Width: 5 m

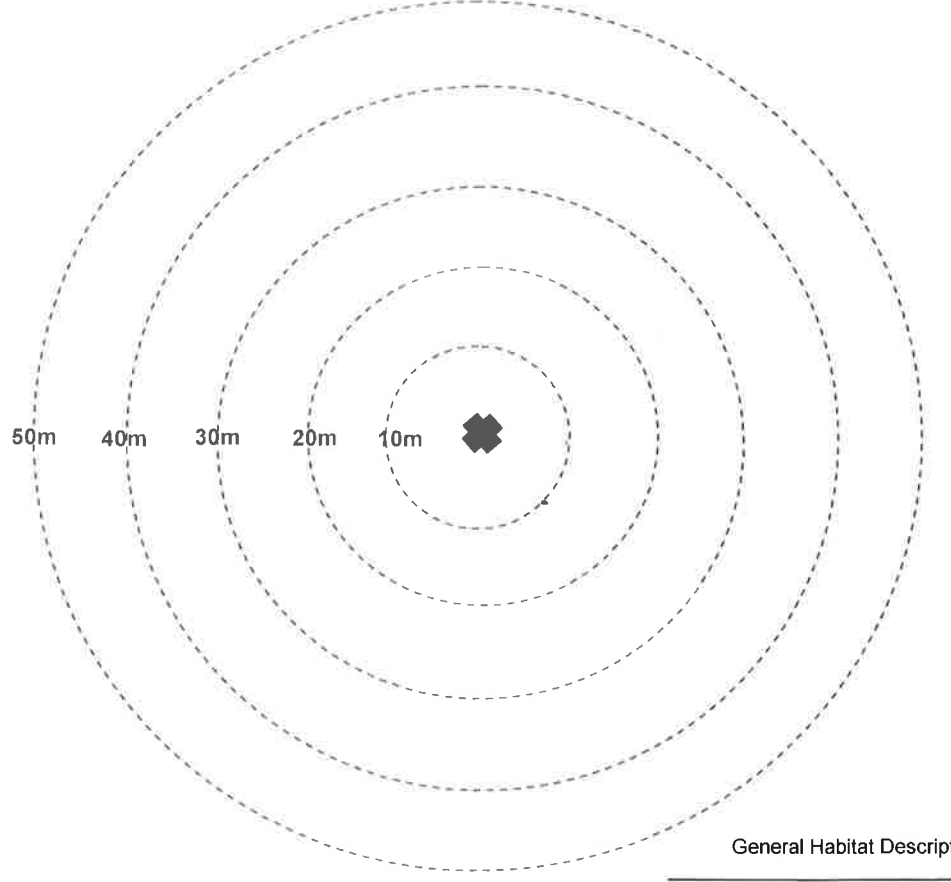


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ____/____/____
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



General Habitat Description: _____



General Habitat Description: _____

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

up: +1
down: +3

Project Name: Amherst Island up Project #: 2121B Turbine #: S03 Degree of Slope +2 degrees Slope Orientation SW (e.g. SSW)

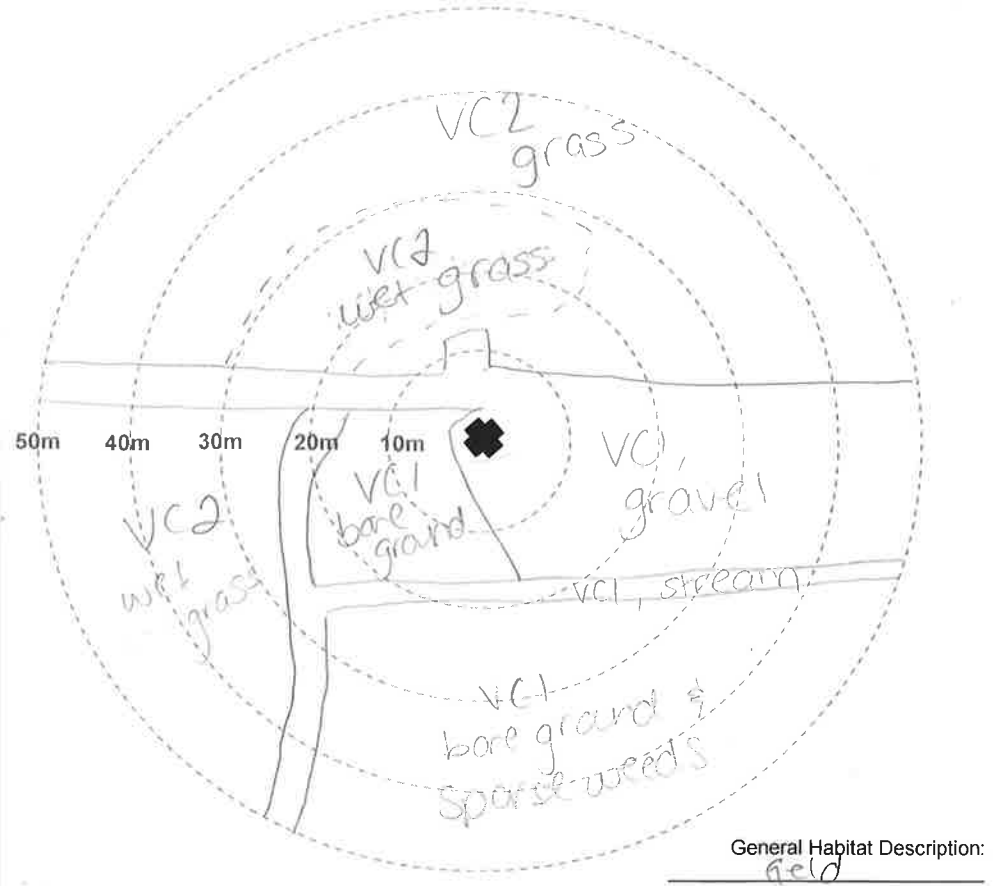
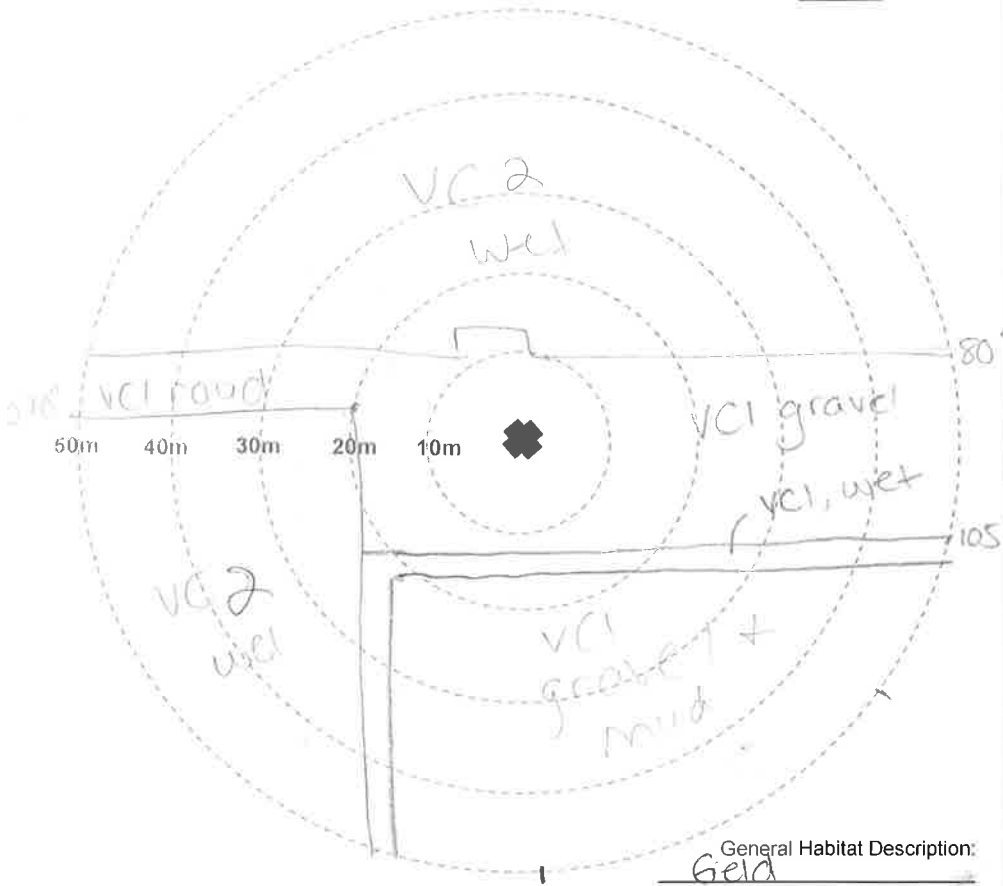
Photo Numbers (from turbine base)
Facing North: _____
Facing East: _____
Facing South: _____
Facing West: _____
(sketch habitat and visibility classes)

Date (DD/MM/YY): 10/05/19
Observer: JYB
Monthly/Seasonal
Linear Transect Width: 5 m



Photo Numbers (from turbine base)
Facing North: 2474
Facing East: 2475
Facing South: 2476
Facing West: 2477
(sketch habitat and visibility classes)

Date (DD/MM/YY): 07/06/19
Observer: JYB
Monthly/Seasonal
Linear Transect Width: 5 m



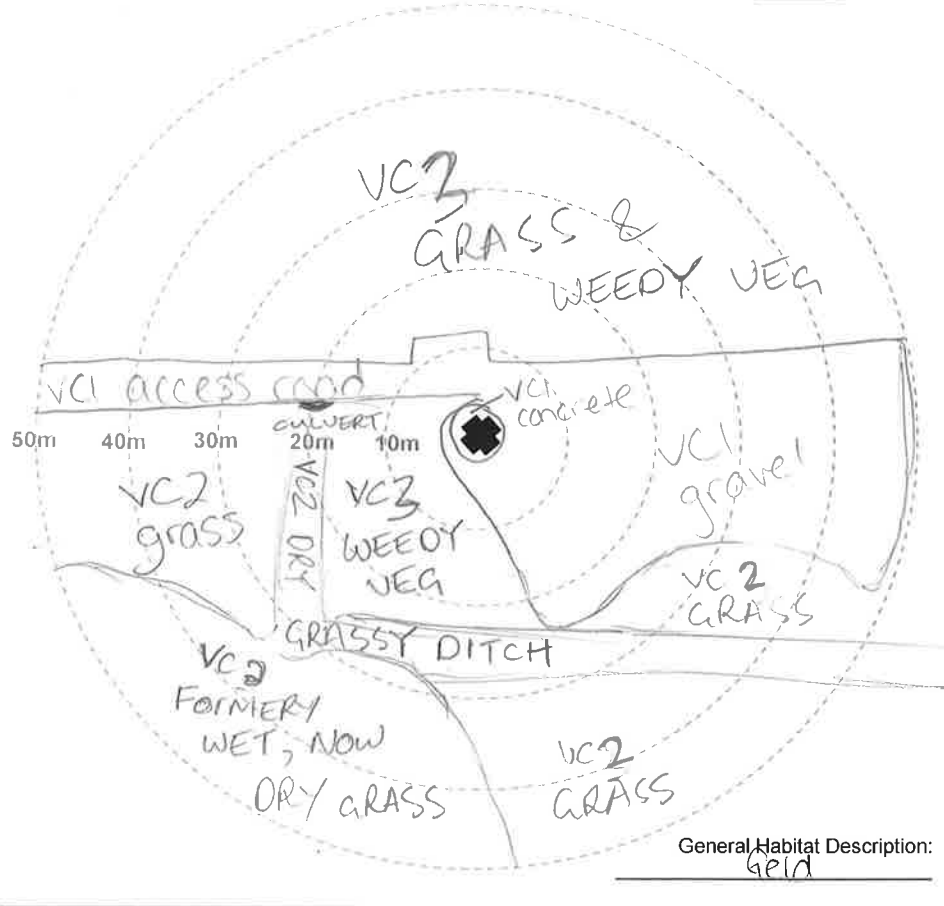
VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island W.P. Project #: 2023 Turbine #: 503

Photo Numbers (from turbine base)
 Facing North: 143601
 Facing East: 143602
 Facing South: 143603
 Facing West: 143604
 (sketch habitat and visibility classes)

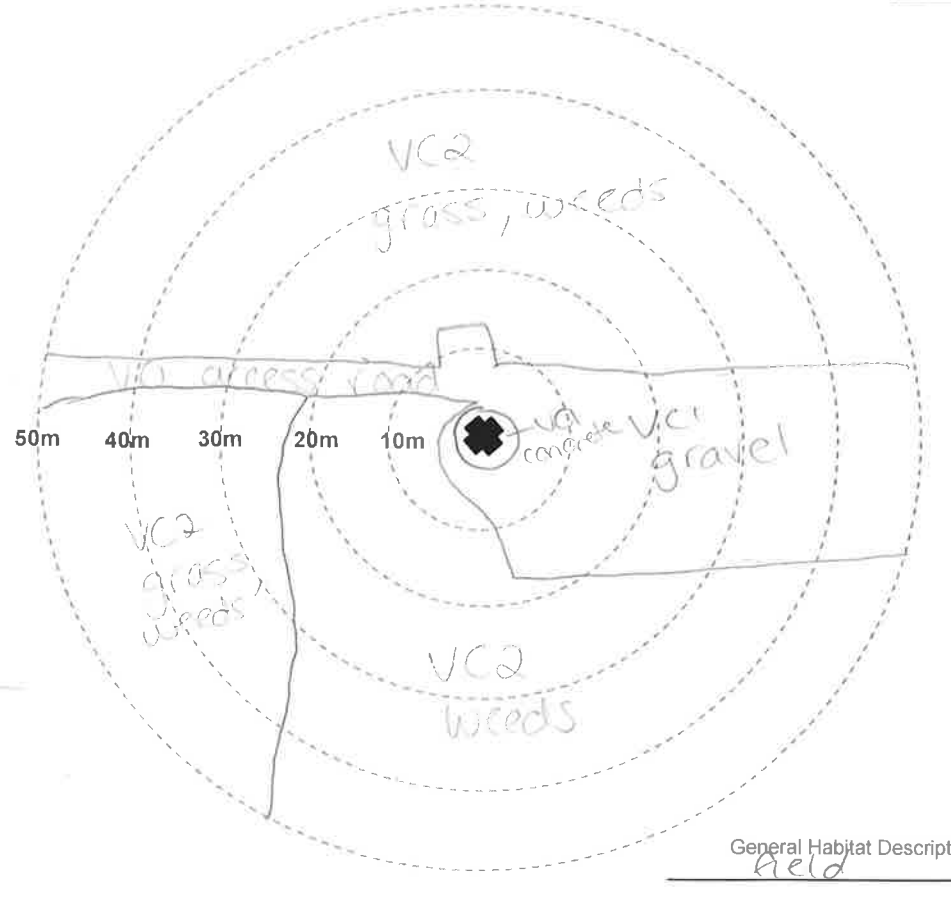
Date (DD/MM/YY): 09/07/19
 Observer: MRI
 Monthly/Seasonal
 Linear Transect Width: 5 m



General Habitat Description: field

Photo Numbers (from turbine base)
 Facing North: 2788
 Facing East: 2789
 Facing South: 2790
 Facing West: 2791
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 09/08/19
 Observer: JLP
 Monthly/Seasonal
 Linear Transect Width: 5 m



General Habitat Description: field

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island W/P Project #: 2018 Turbine #: 503

Photo Numbers (from turbine base)
 Facing North: 100920
 Facing East: 100921
 Facing South: 100922
 Facing West: 100923
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 10/09/19

Observer: JYB

Monthly/Seasonal
 Linear Transect Width: 5 m

↑
N

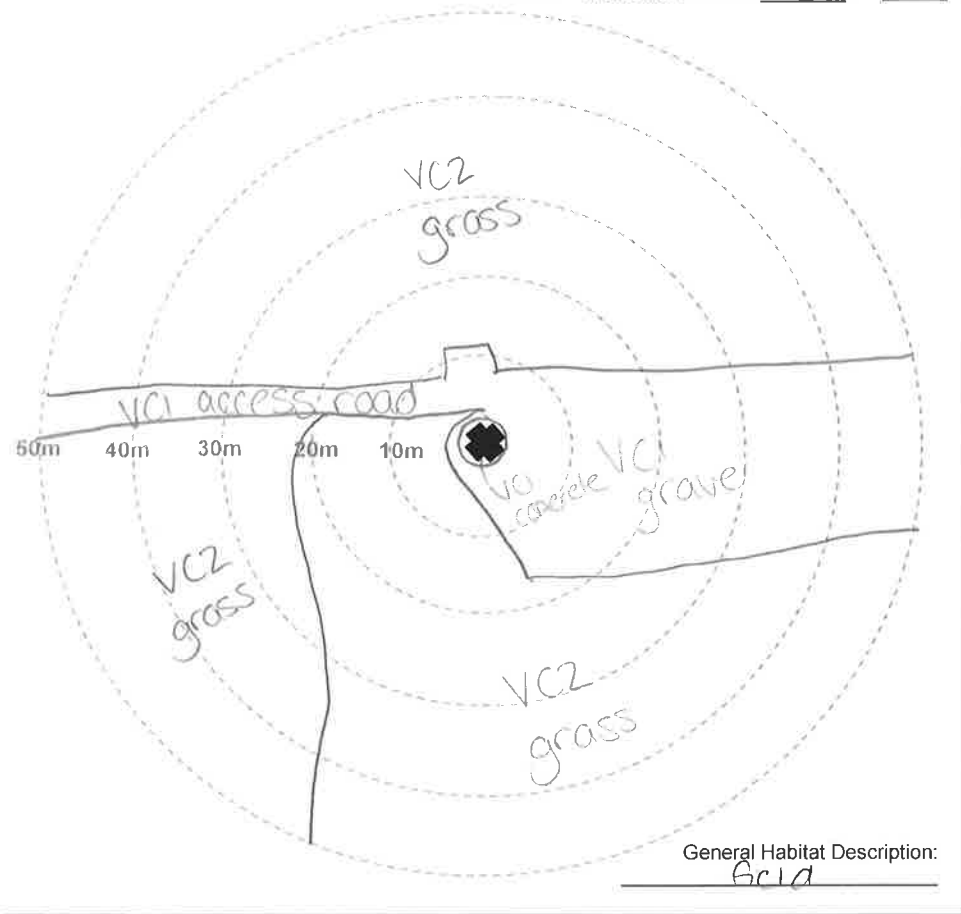


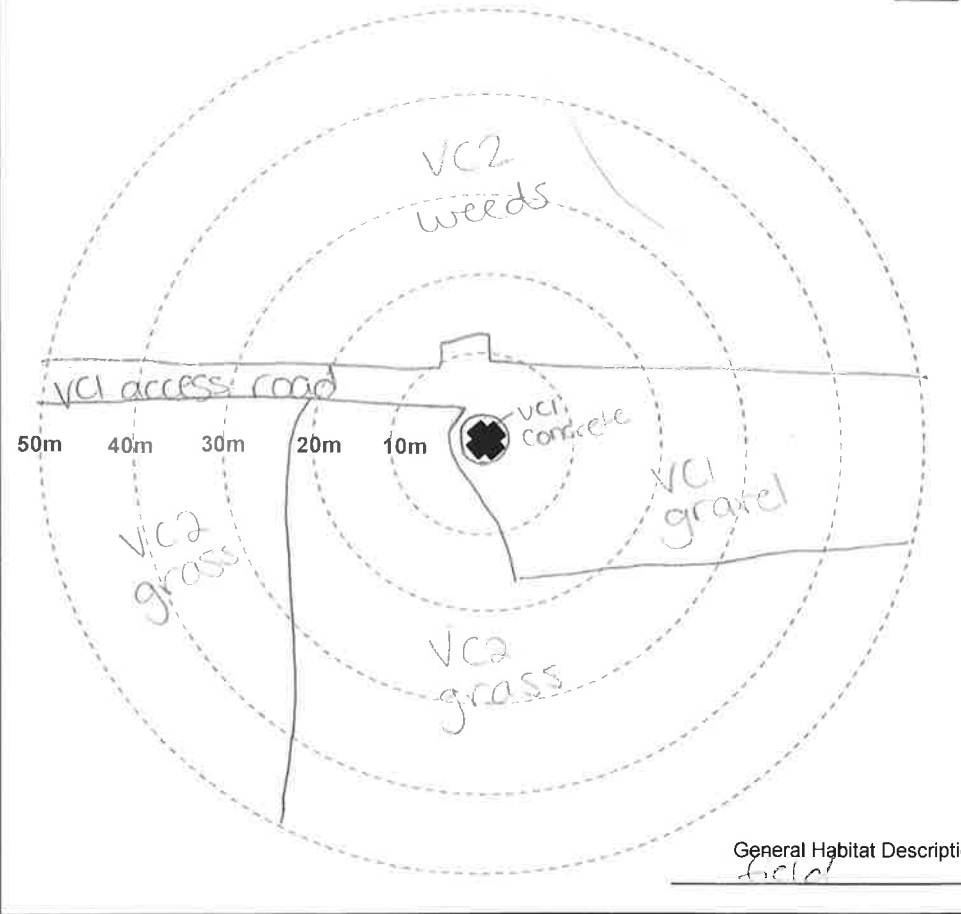
Photo Numbers (from turbine base)
 Facing North: 102415
 Facing East: 102416
 Facing South: 102417
 Facing West: 102418
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 24/10/19

Observer: JYB

Monthly/Seasonal
 Linear Transect Width: 5 m

↑
N



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121B Turbine #: 503 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

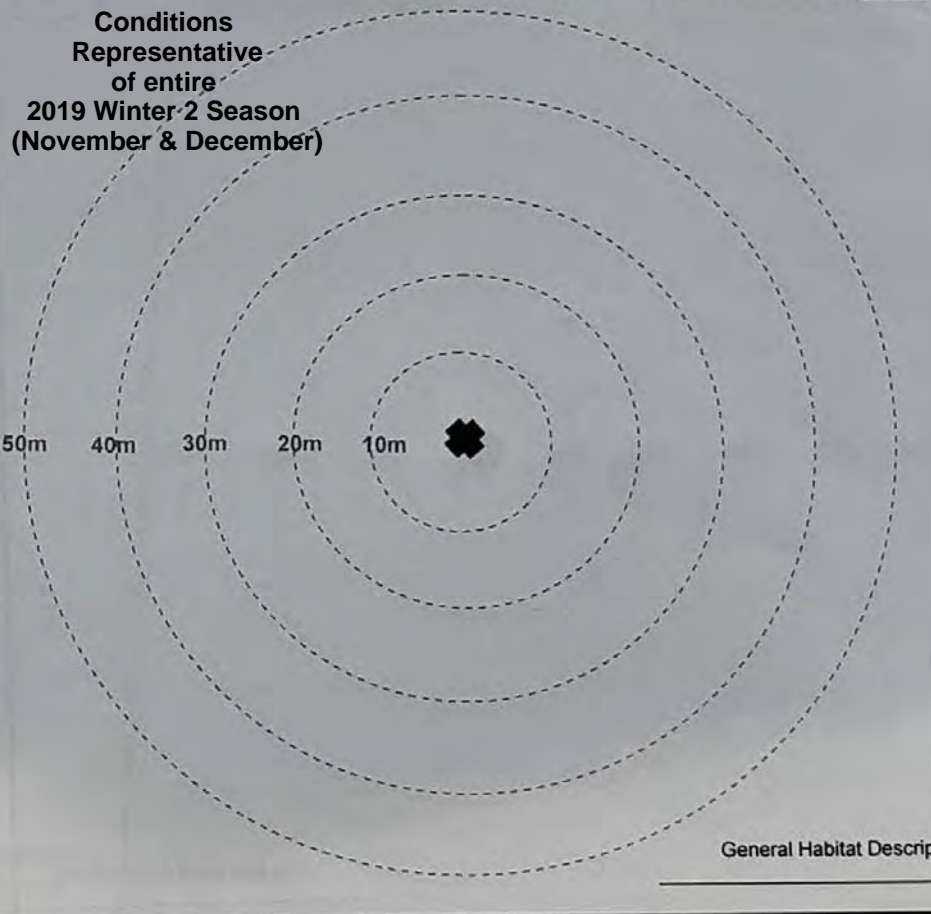
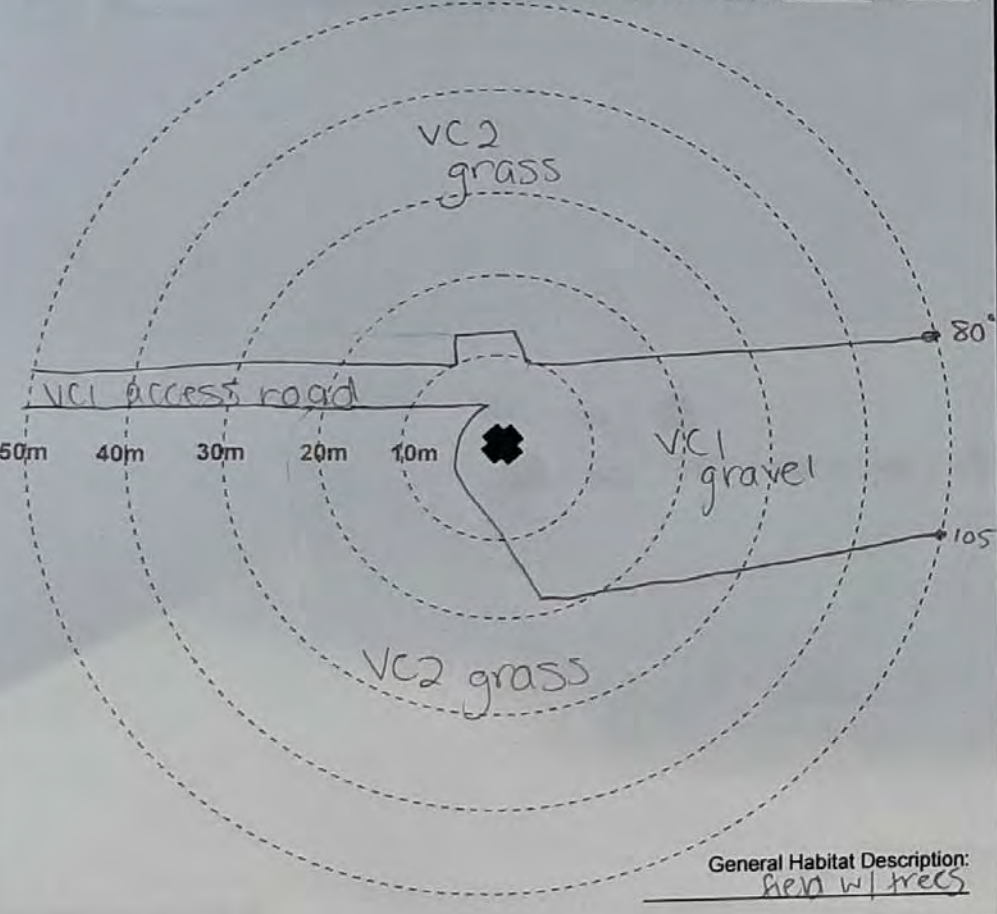
Photo Numbers (from turbine base)
 Facing North: 221237
 Facing East: 221238
 Facing South: 221239
 Facing West: 221240
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 22/12/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 5 m



Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2221A Turbine #: 504 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

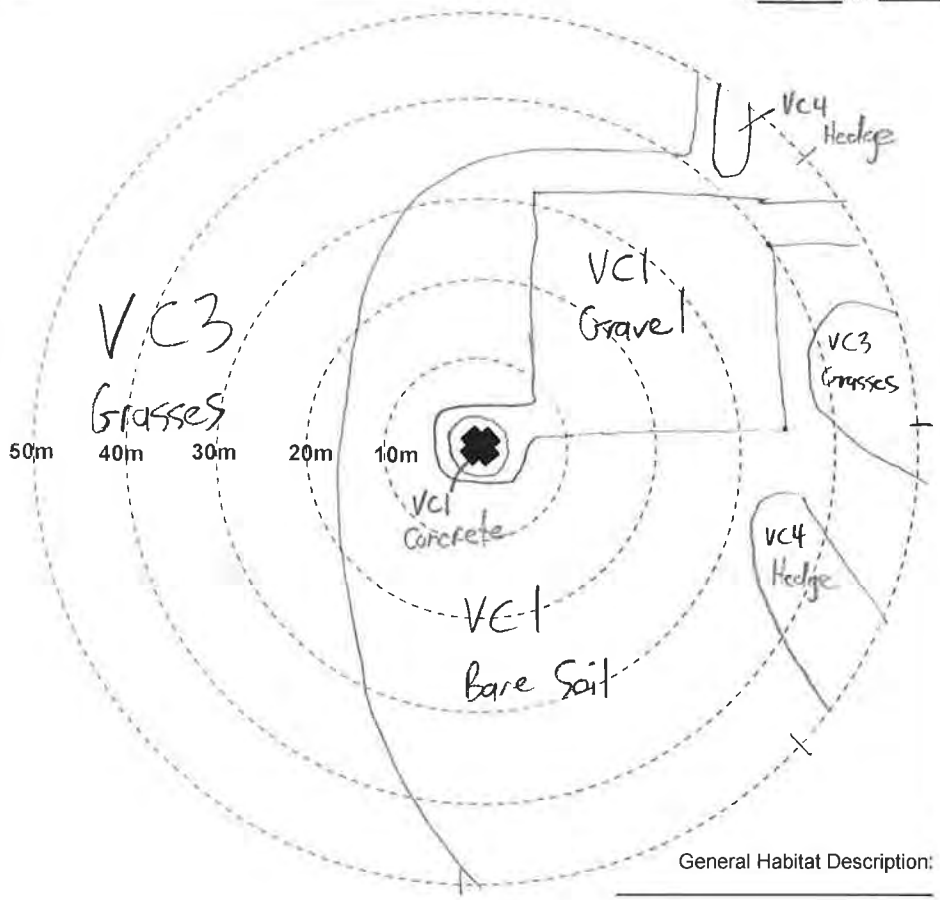
Photo Numbers (from turbine base)
 Facing North: 2779
 Facing East: 2780
 Facing South: 2781
 Facing West: 2782
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 11/02/19
 Observer: BAH
 Monthly/Seasonal Linear Transect Width: 5 m

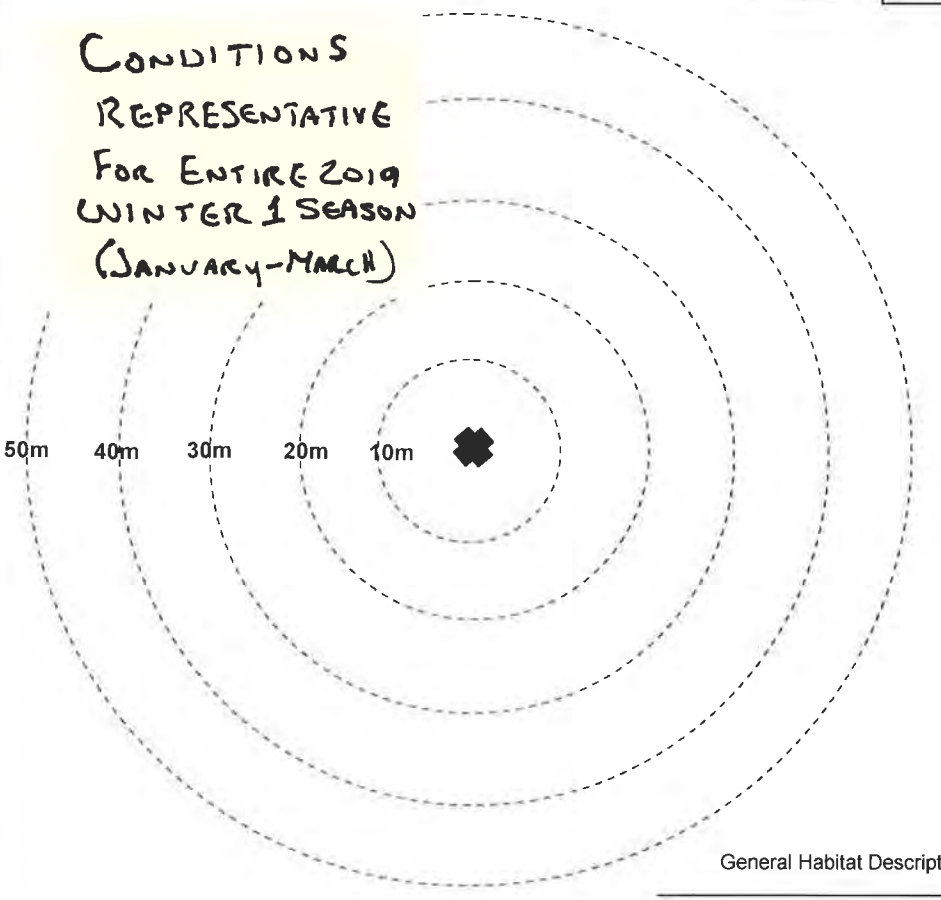


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___
 Observer: _____
 Monthly/Seasonal Linear Transect Width: _____ m



General Habitat Description: _____



**CONDITIONS
 REPRESENTATIVE
 FOR ENTIRE 2019
 WINTER 1 SEASON
 (JANUARY-MARCH)**

General Habitat Description: _____

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

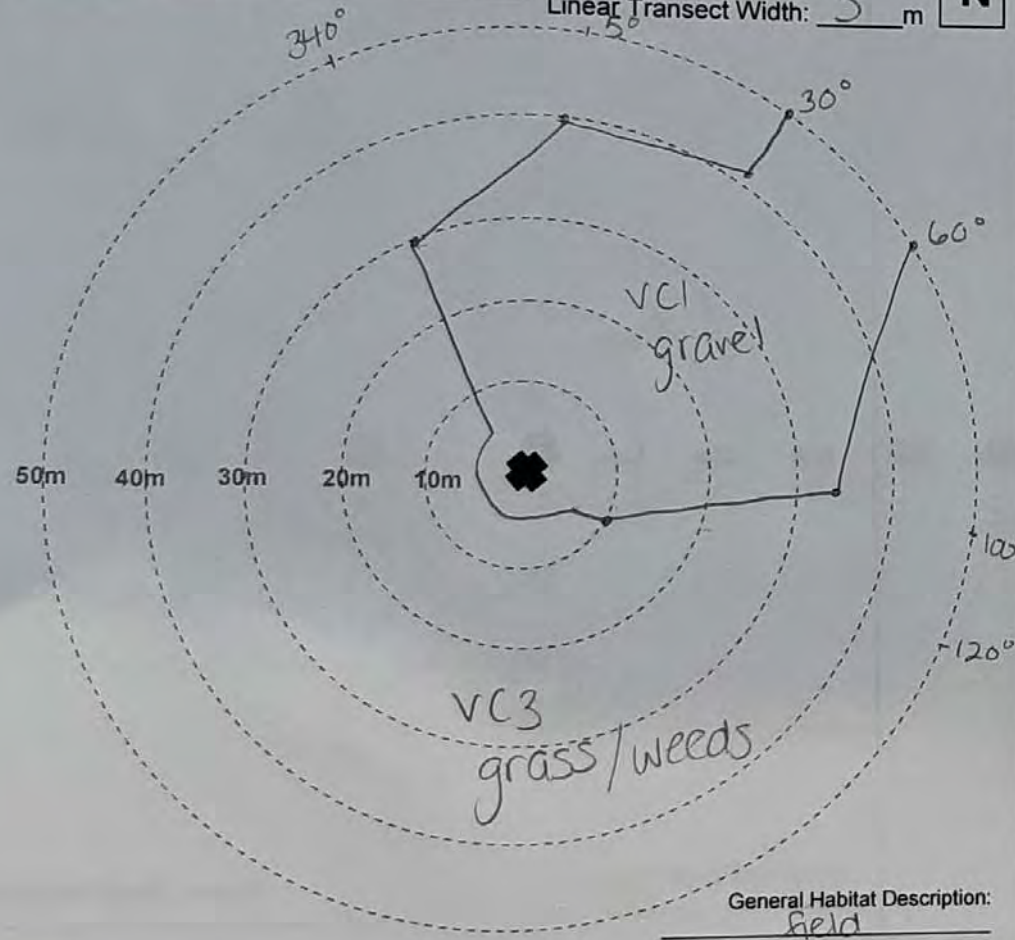
Project Name: Amherst Island WP Project #: 2121B Turbine #: 504

Photo Numbers (from turbine base)
 Facing North: 221219
 Facing East: 221220
 Facing South: 221221
 Facing West: 221222
 (sketch habitat and visibility classes)

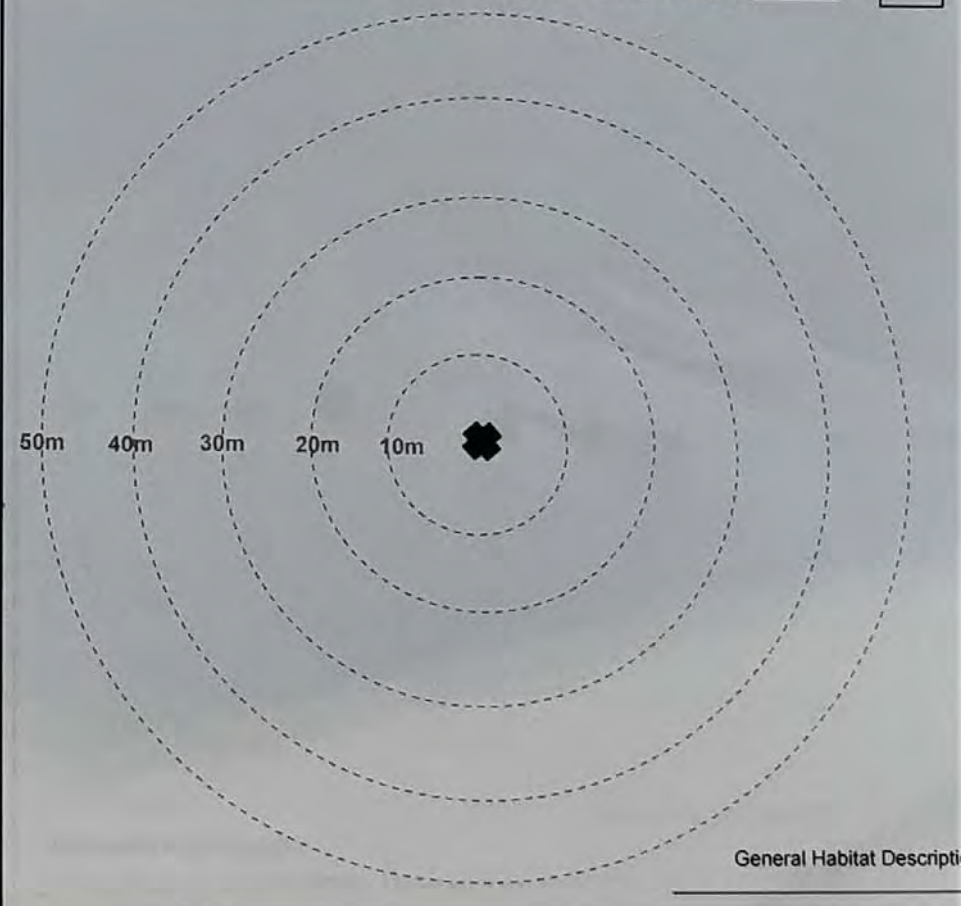
Date (DD/MM/YY): 22/12/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 5 m

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



General Habitat Description:
field



General Habitat Description:

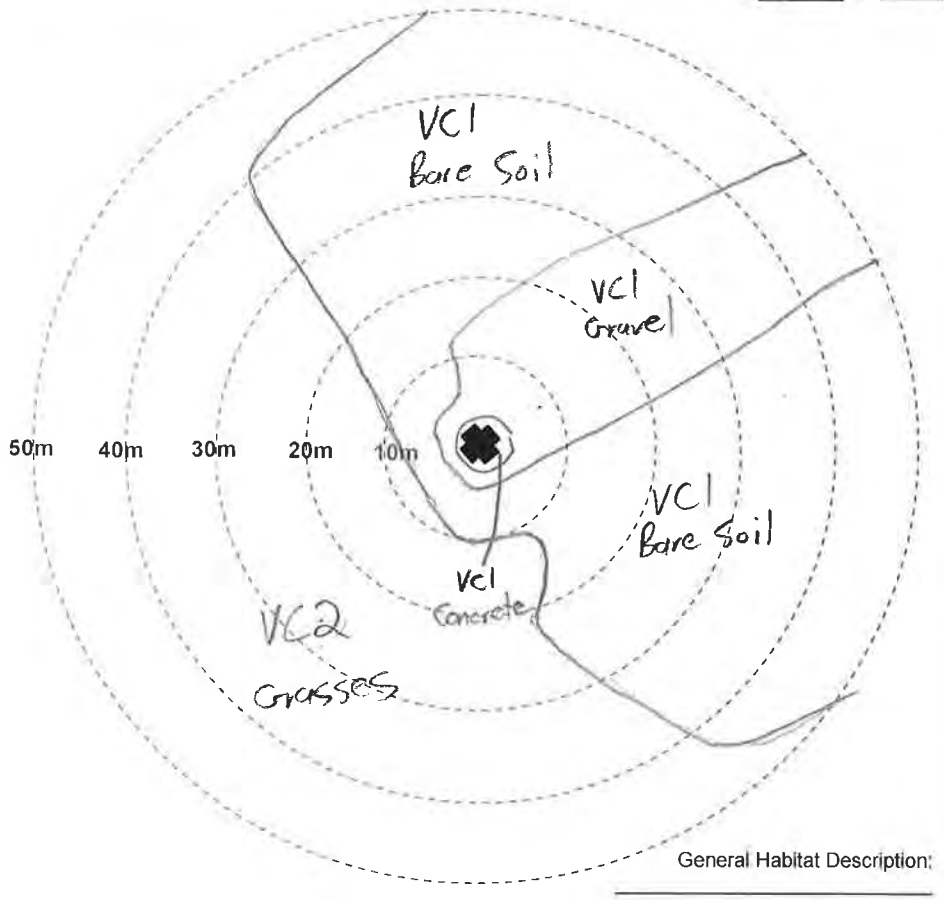
VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121A Turbine #: 505 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 2791
 Facing East: 2792
 Facing South: 2793
 Facing West: 2794
 (sketch habitat and visibility classes)

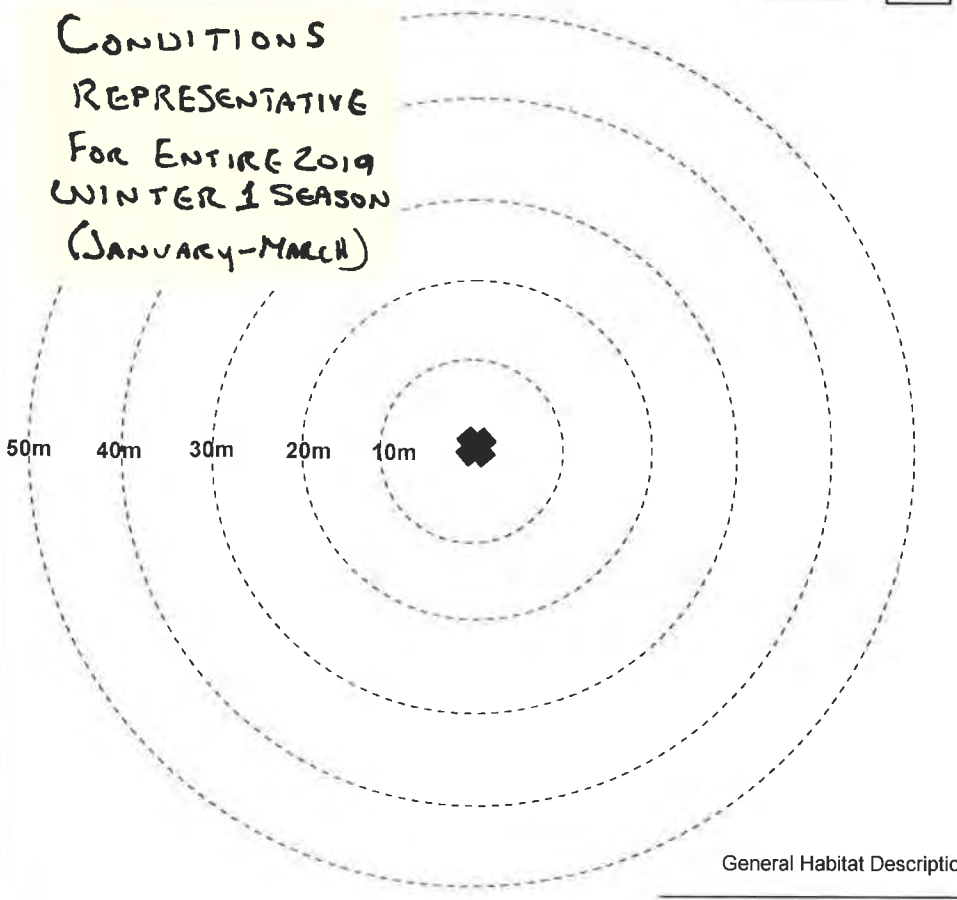
Date (DD/MM/YY): 11 / 02 / 19
 Observer: BAH
 Monthly/Seasonal
 Linear Transect Width: 5 m



General Habitat Description: _____

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



General Habitat Description: _____

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121B Turbine #: S05 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

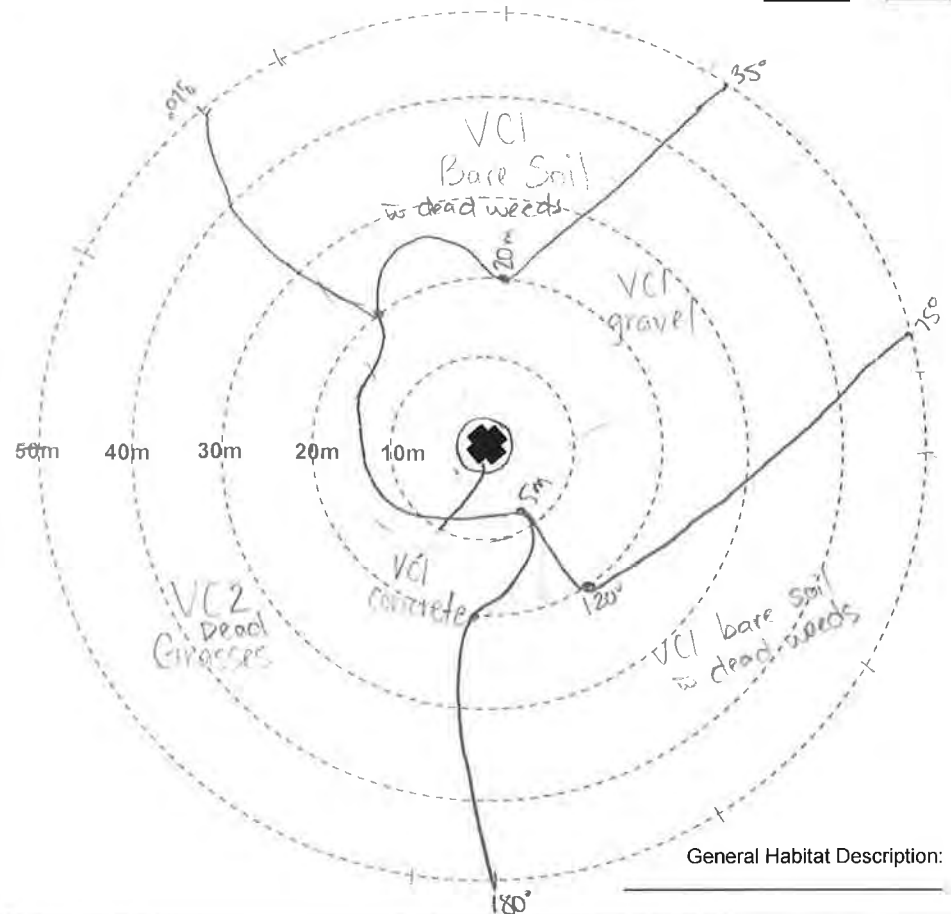
Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 05/04/19
 Observer: Shelby H.
 Monthly/Seasonal
 Linear Transect Width: 5 m

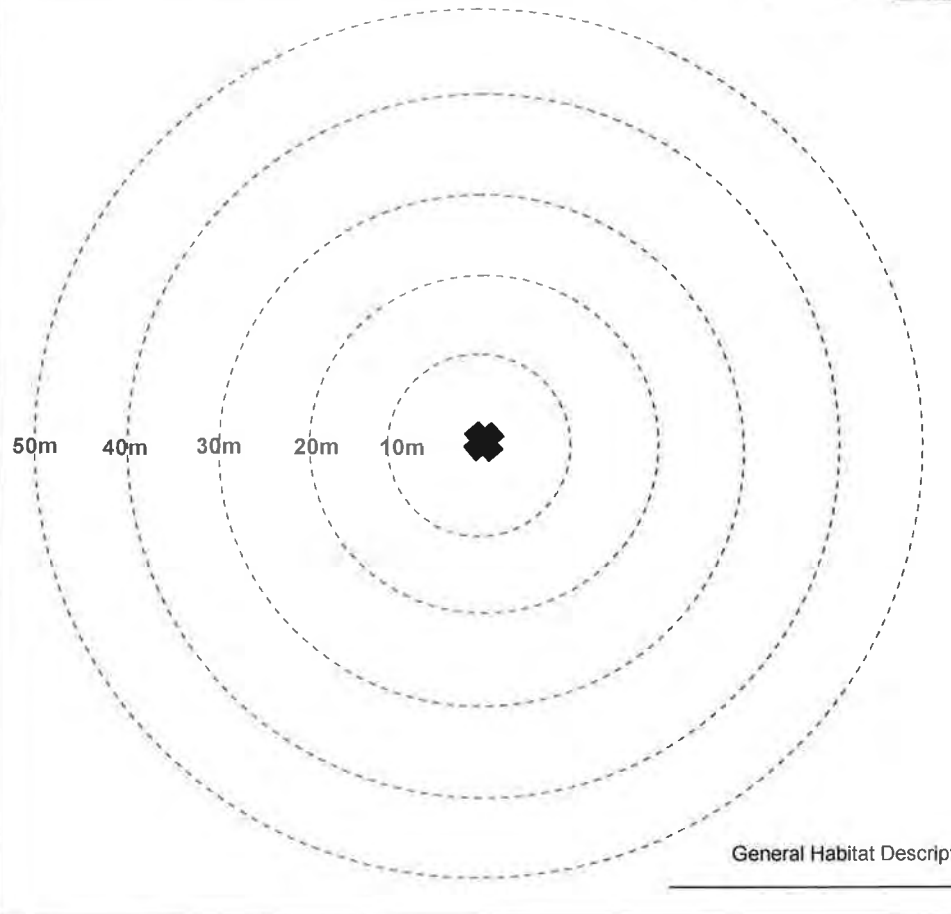


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



General Habitat Description: _____



General Habitat Description: _____

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

up 0
down +3

Project Name: Ambers Island WIP Project #: 21212 Turbine #: 505 Degree of Slope 41.5 degrees Slope Orientation S (e.g. SSW)

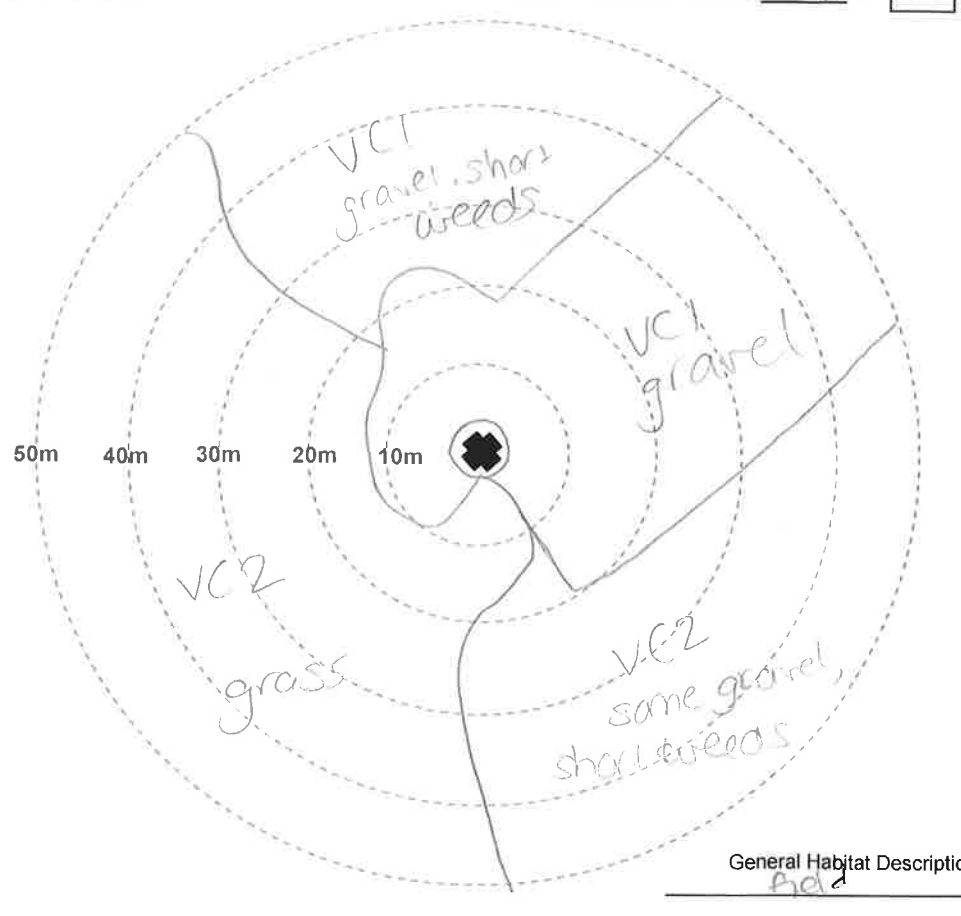
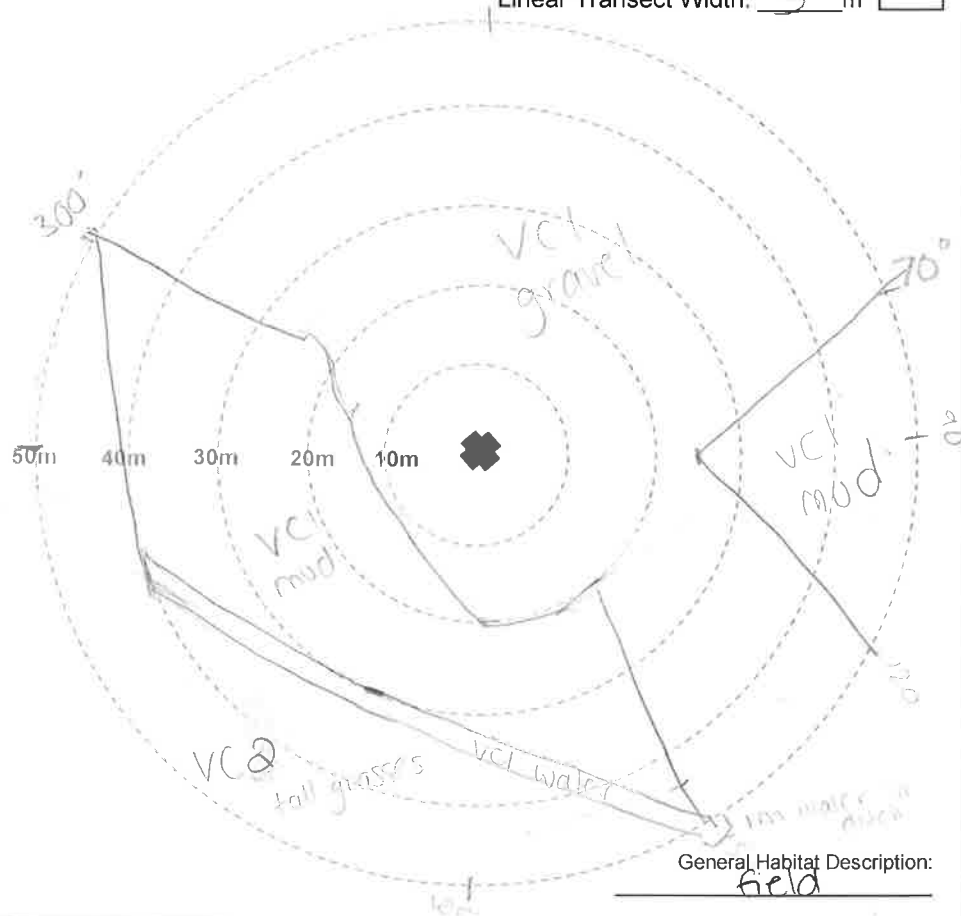
Photo Numbers (from turbine base)
Facing North: 2204
Facing East: 2205
Facing South: 2206
Facing West: 2207
(sketch habitat and visibility classes)

Date (DD/MM/YY): 07/05/19
Observer: JYB
Monthly/Seasonal
Linear Transect Width: 5 m



Photo Numbers (from turbine base)
Facing North: 2456
Facing East: 2457
Facing South: 2458
Facing West: 2459
(sketch habitat and visibility classes)

Date (DD/MM/YY): 07/06/19
Observer: JYB
Monthly/Seasonal
Linear Transect Width: 5 m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island W/P Project #: 2121B Turbine #: S05

Photo Numbers (from turbine base)
 Facing North: 2584
 Facing East: 2585
 Facing South: 2586
 Facing West: 2587
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 09/07/19

Observer: JYB

Monthly/Seasonal
 Linear Transect Width: 5 m

↑
N

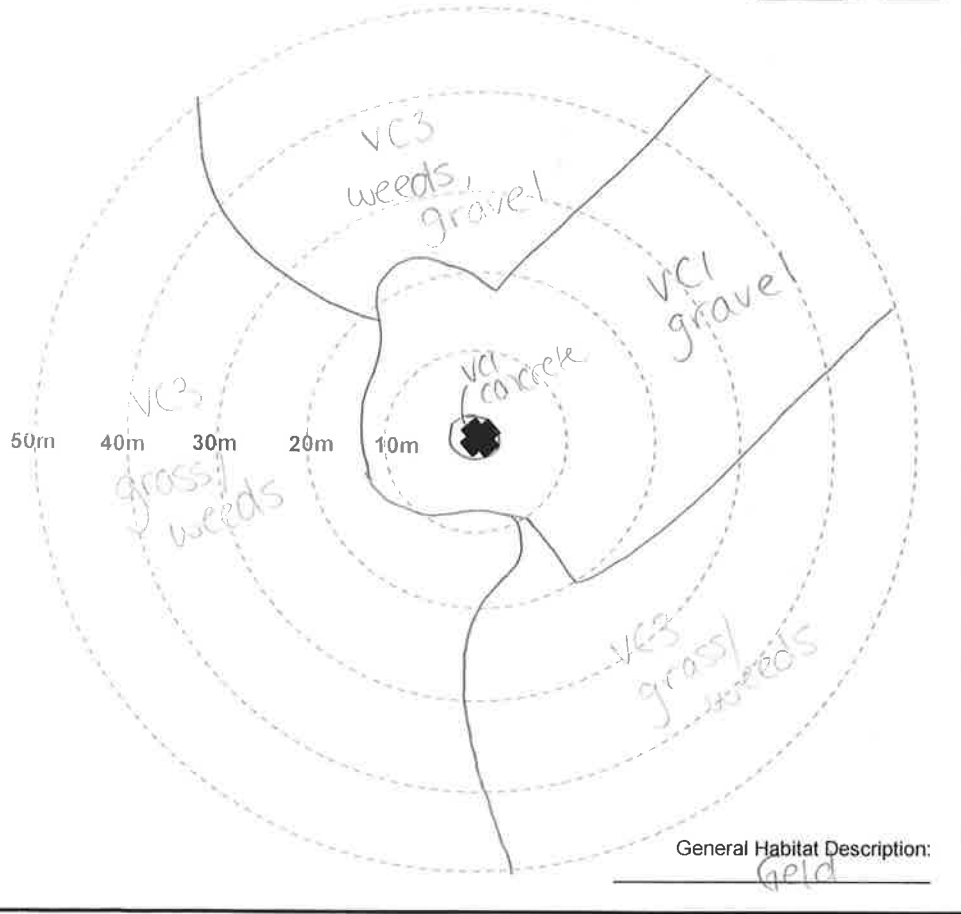


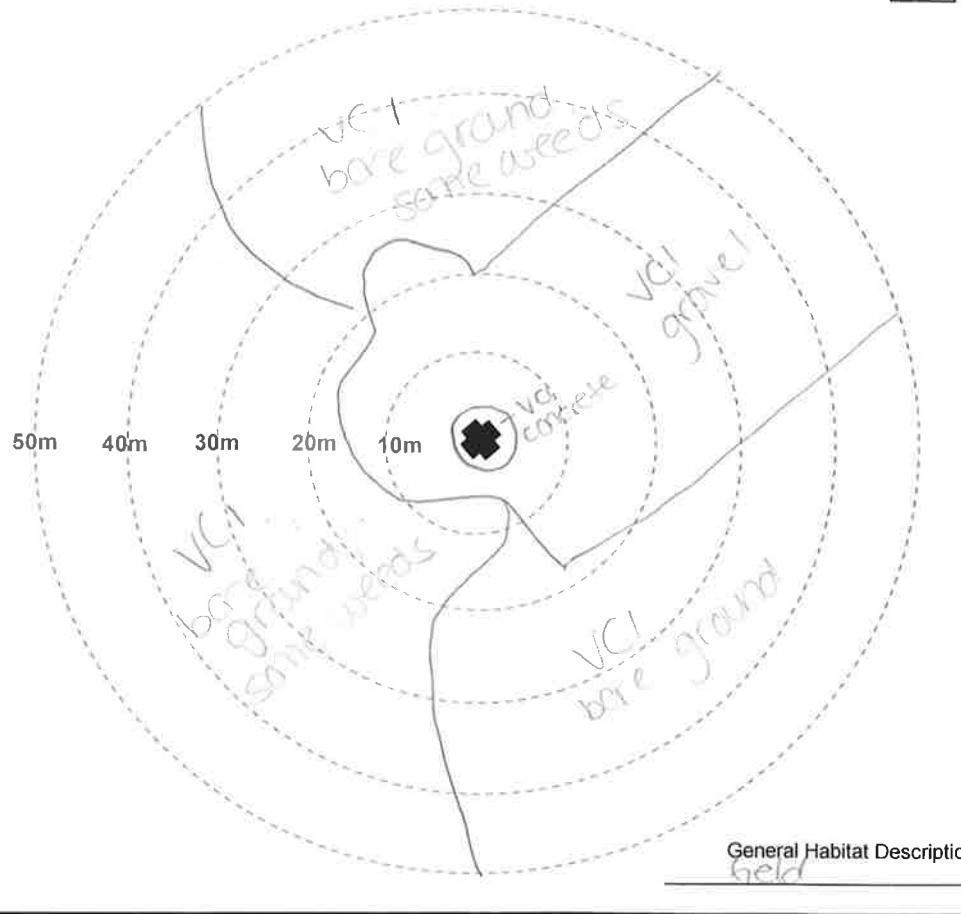
Photo Numbers (from turbine base)
 Facing North: 2799
 Facing East: 2800
 Facing South: 2801
 Facing West: 2802
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 09/08/19

Observer: JYB

Monthly/Seasonal
 Linear Transect Width: 5 m

↑
N



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Ambers' Island WIP Project #: 21218 Turbine #: S65

Photo Numbers (from turbine base)
 Facing North: 100901
 Facing East: 100902
 Facing South: 100903
 Facing West: 100904
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 10/09/19

Observer: JNB

Monthly/Seasonal
 Linear Transect Width: 5 m

↑
N

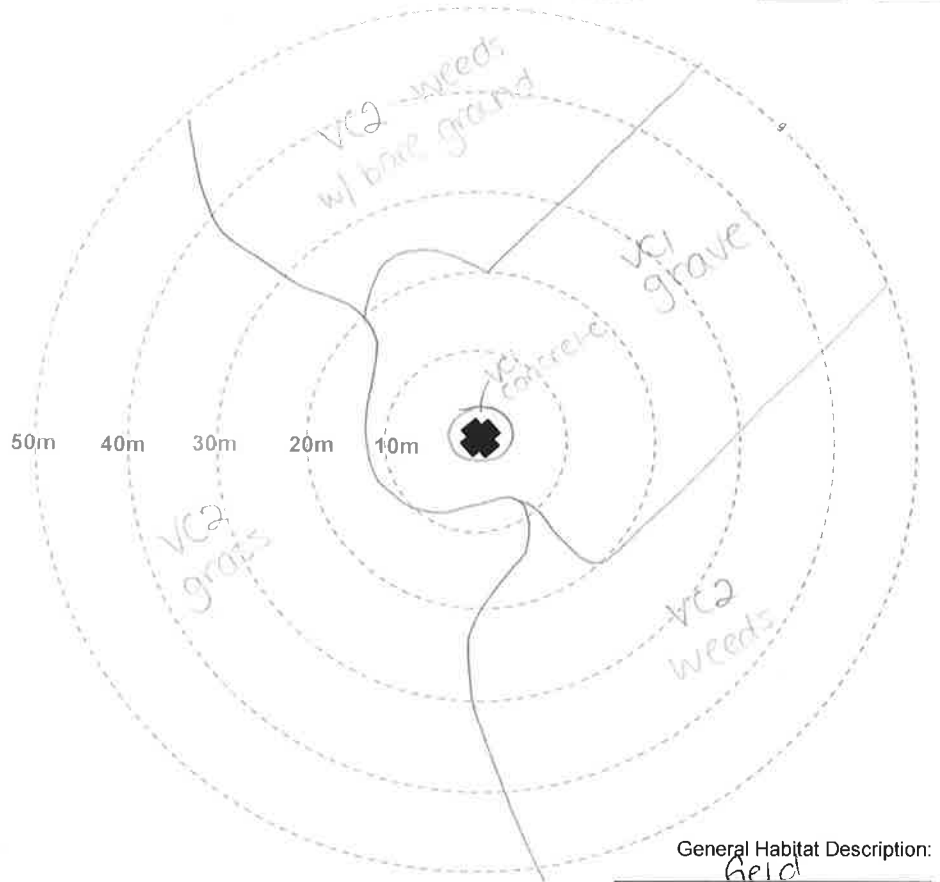


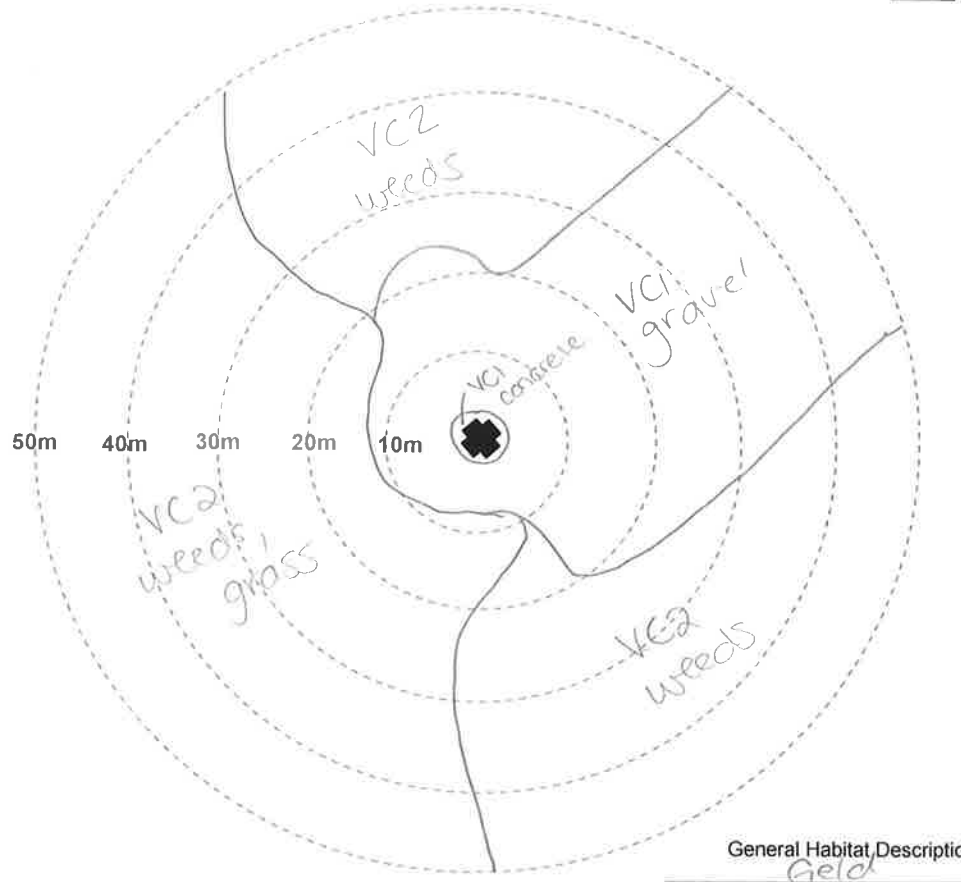
Photo Numbers (from turbine base)
 Facing North: 102463
 Facing East: 102404
 Facing South: 102405
 Facing West: 102406
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 24/10/19

Observer: JNB

Monthly/Seasonal
 Linear Transect Width: 5 m

↑
N



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

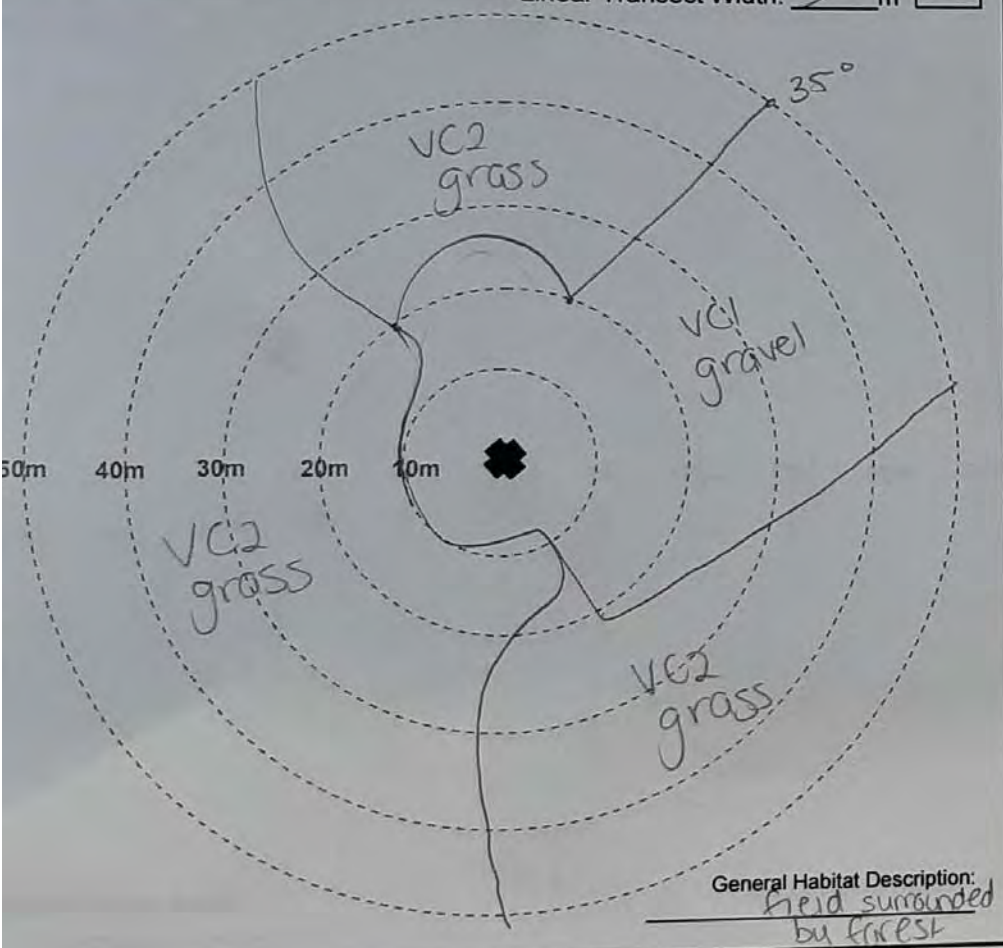
Project Name: Amherst Island WP Project #: 21218 Turbine #: 505 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 221206
 Facing East: 221207
 Facing South: 221208
 Facing West: 221209
 (sketch habitat and visibility classes)

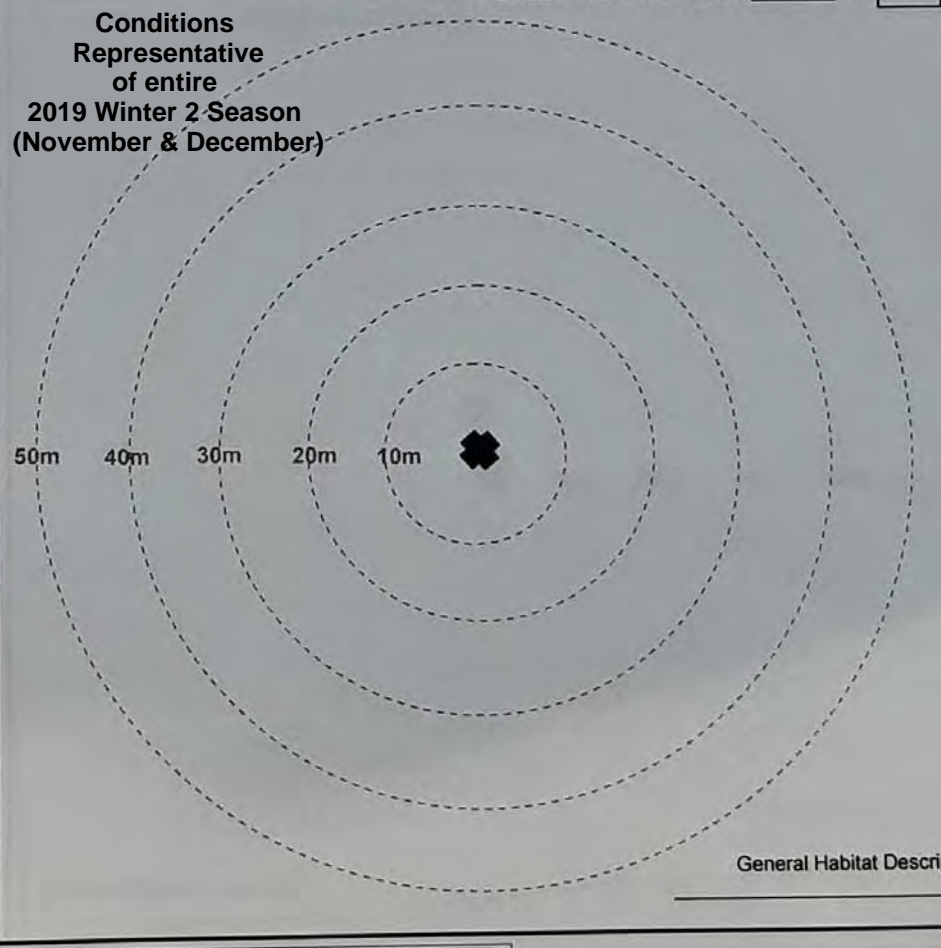
Date (DD/MM/YY): 22/12/19
 Observer: J4B
 Monthly/Seasonal Linear Transect Width: 5 m

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal Linear Transect Width: _____ m



General Habitat Description:
field surrounded by forest



Conditions Representative of entire 2019 Winter 2 Season (November & December)

General Habitat Description: _____

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121A Turbine #: S07 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

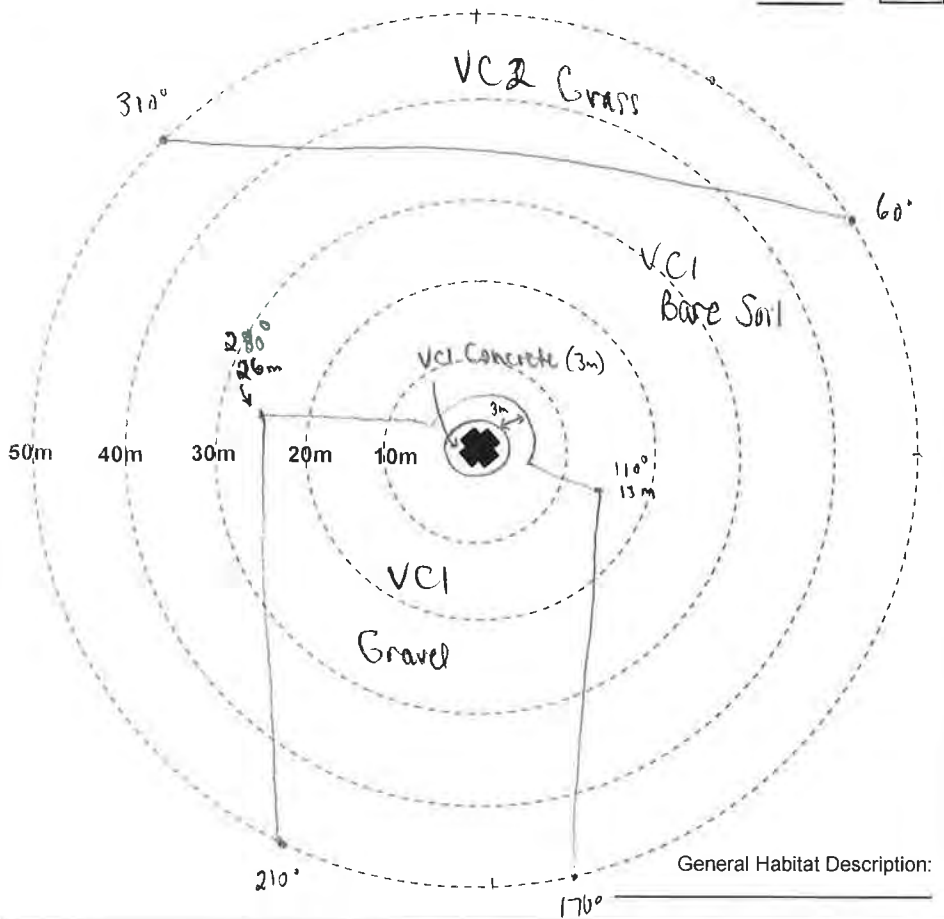
Photo Numbers (from turbine base)
 Facing North: 3219
 Facing East: 3220
 Facing South: 3221
 Facing West: 3222
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 06/02/19
 Observer: KMH
 Monthly/Seasonal
 Linear Transect Width: 5 m

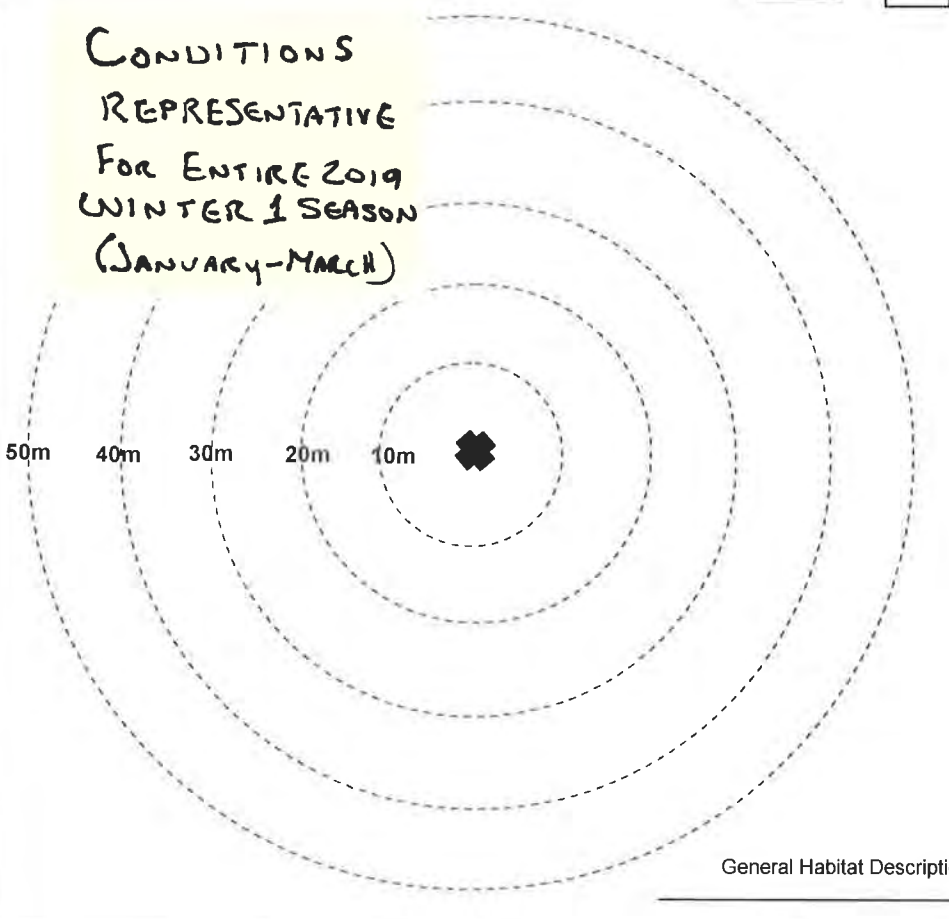


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



General Habitat Description: _____



General Habitat Description: _____

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WIP Project #: 2121B Turbine #: 507 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: 1825 * gravel piles
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 05/04/19

Observer: Shelby H.

Monthly/Seasonal
 Linear Transect Width: 5 m

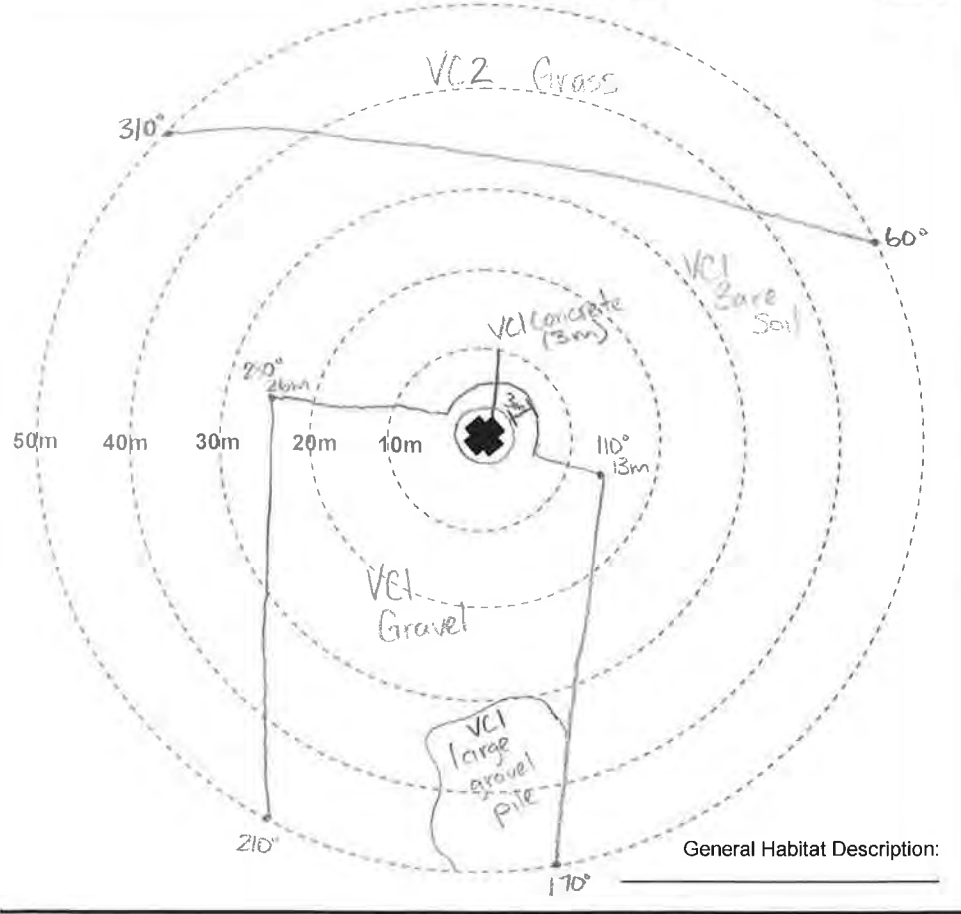


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

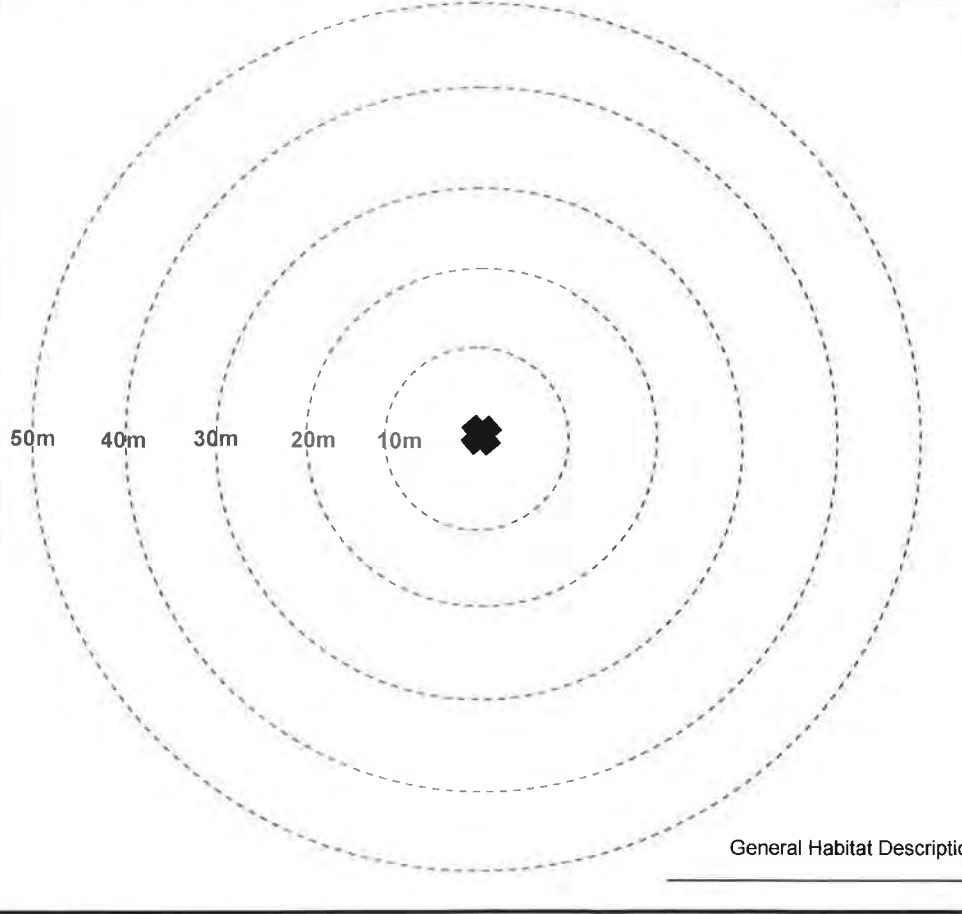
Date (DD/MM/YY): ___/___/___

Observer: _____

Monthly/Seasonal
 Linear Transect Width: _____ m



General Habitat Description: _____



General Habitat Description: _____

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amberst Island WIP Project #: 21218 Turbine #: 307

Photo Numbers (from turbine base)
 Facing North: 2426
 Facing East: 2427
 Facing South: 2428
 Facing West: 2429
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 07/05/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 5 m

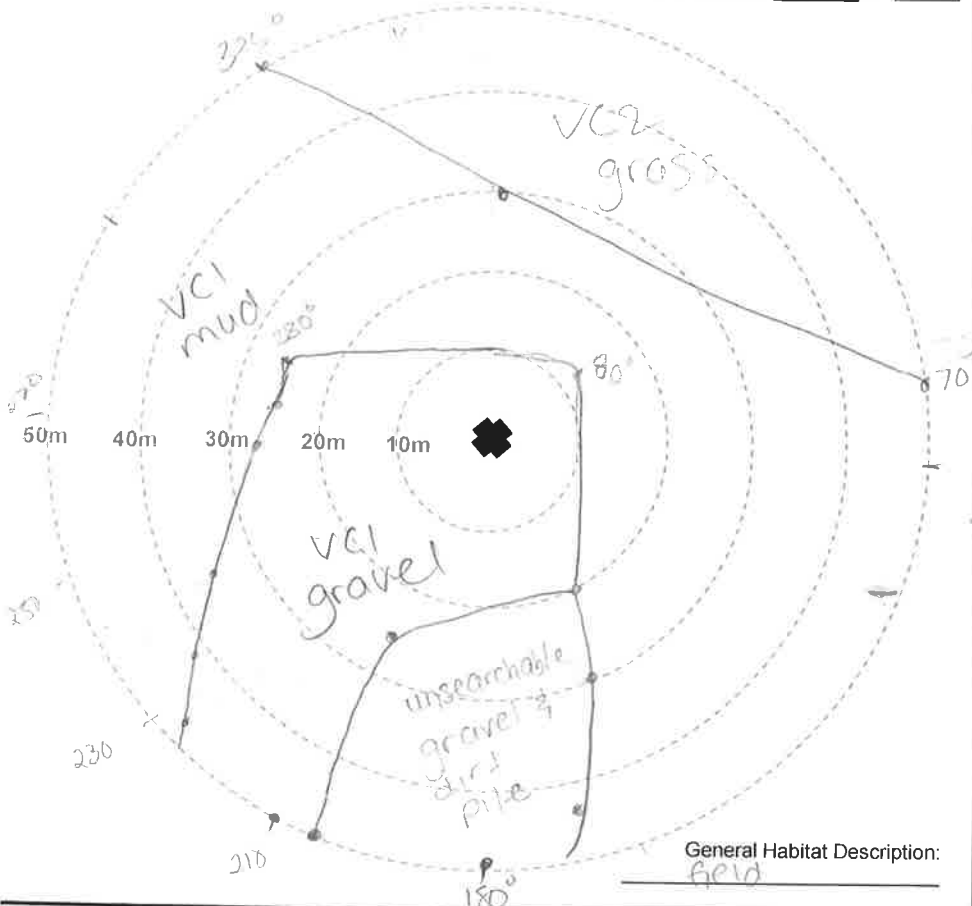
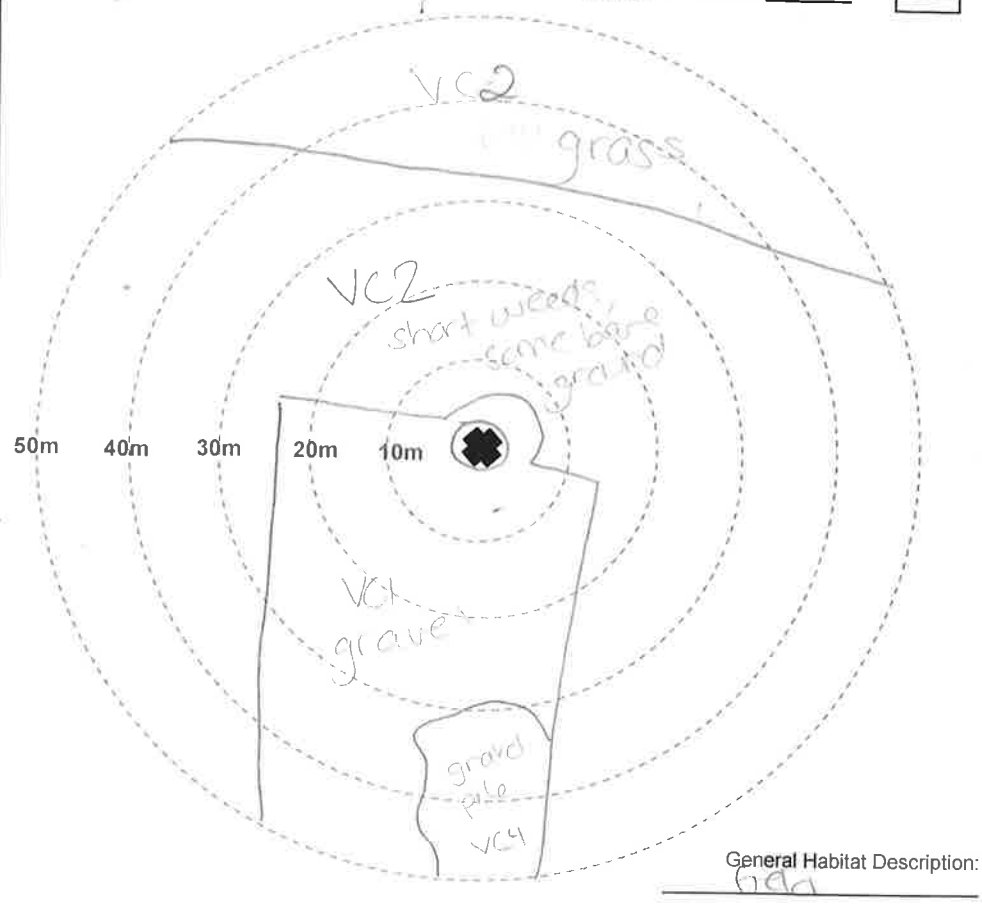


Photo Numbers (from turbine base)
 Facing North: 2434
 Facing East: 2425
 Facing South: 2426
 Facing West: 2427
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 07/06/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 05 m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst W.P. Project #: 21218 Turbine #: 507 Degree of Slope ^{up +1} _{down +3} +2 degrees Slope Orientation NE (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 135539
 Facing East: 135589
 Facing South: 135559
 Facing West: 135610
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 11/07/19

Observer: MR1

Monthly/Seasonal
 Linear Transect Width: 5 m

↑
N

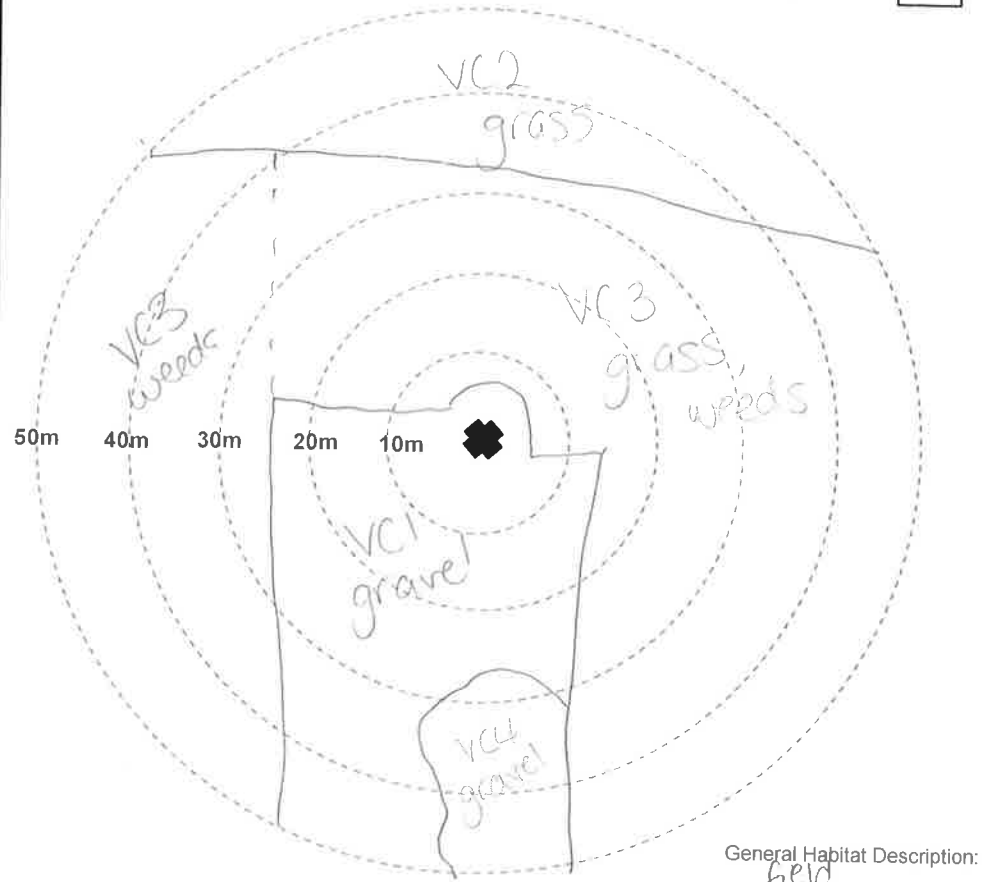
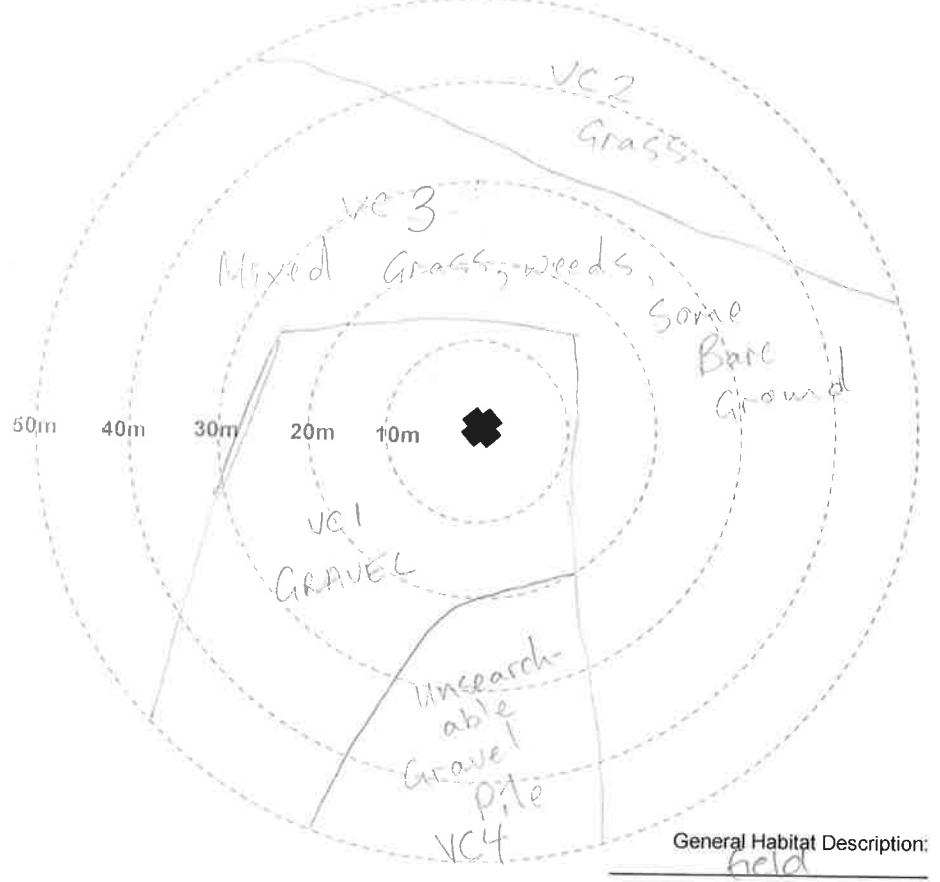
Photo Numbers (from turbine base)
 Facing North: 2700
 Facing East: 2701
 Facing South: 2702
 Facing West: 2703
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 15/08/19

Observer: JMB

Monthly/Seasonal
 Linear Transect Width: 5 m

↑
N



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Ambers Island Project #: 21218 Turbine #: 507

Photo Numbers (from turbine base)
 Facing North: 90911
 Facing East: 90912
 Facing South: 90913
 Facing West: 90914
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 09/09/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 5 m

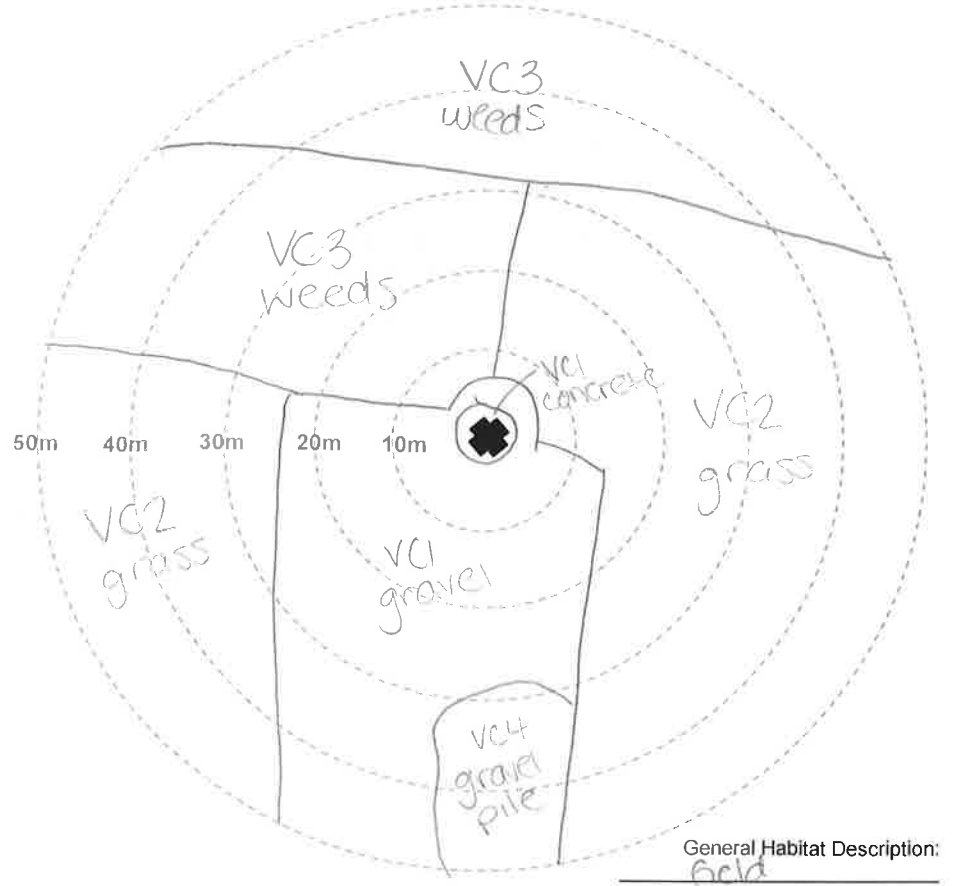
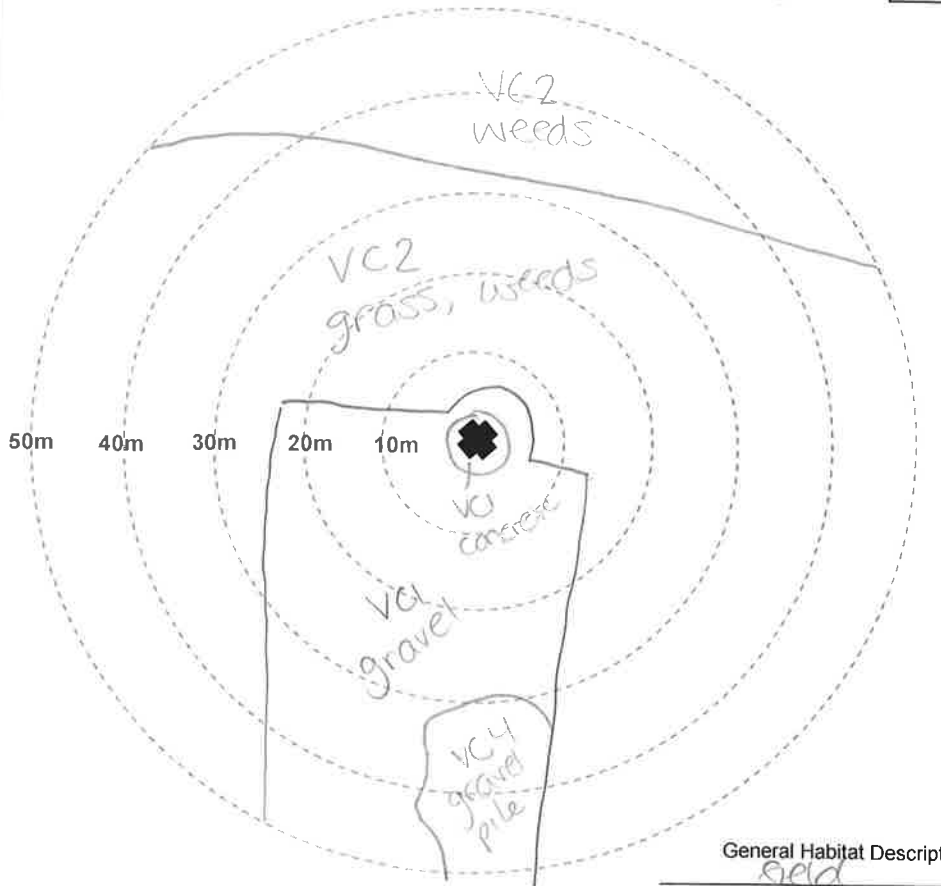


Photo Numbers (from turbine base)
 Facing North: 102427
 Facing East: 102428
 Facing South: 102429
 Facing West: 102430
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 24/10/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 5 m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

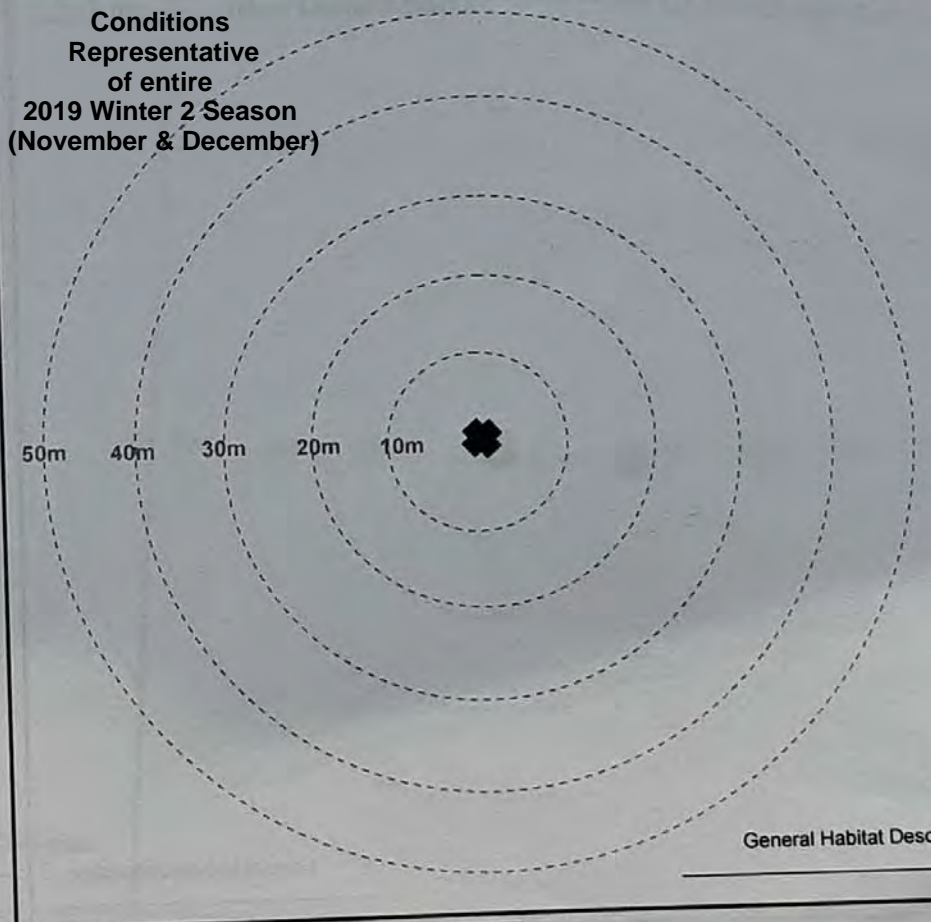
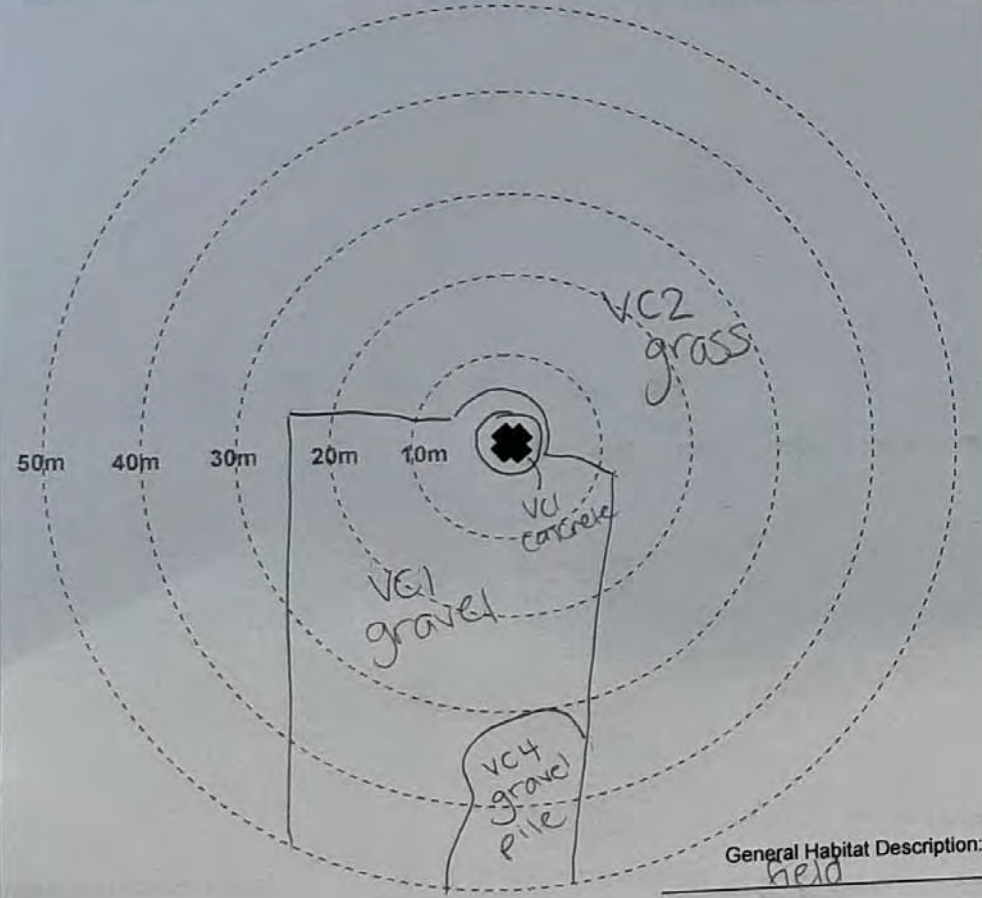
Project Name: Amherst Island WP Project #: 2121B Turbine #: 507 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 231225
 Facing East: 231226
 Facing South: 231227
 Facing West: 231228
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 23/12/19
 Observer: JTB
 Monthly/Seasonal
 Linear Transect Width: 5 m

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 1/1/
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121A Turbine #: 5091 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

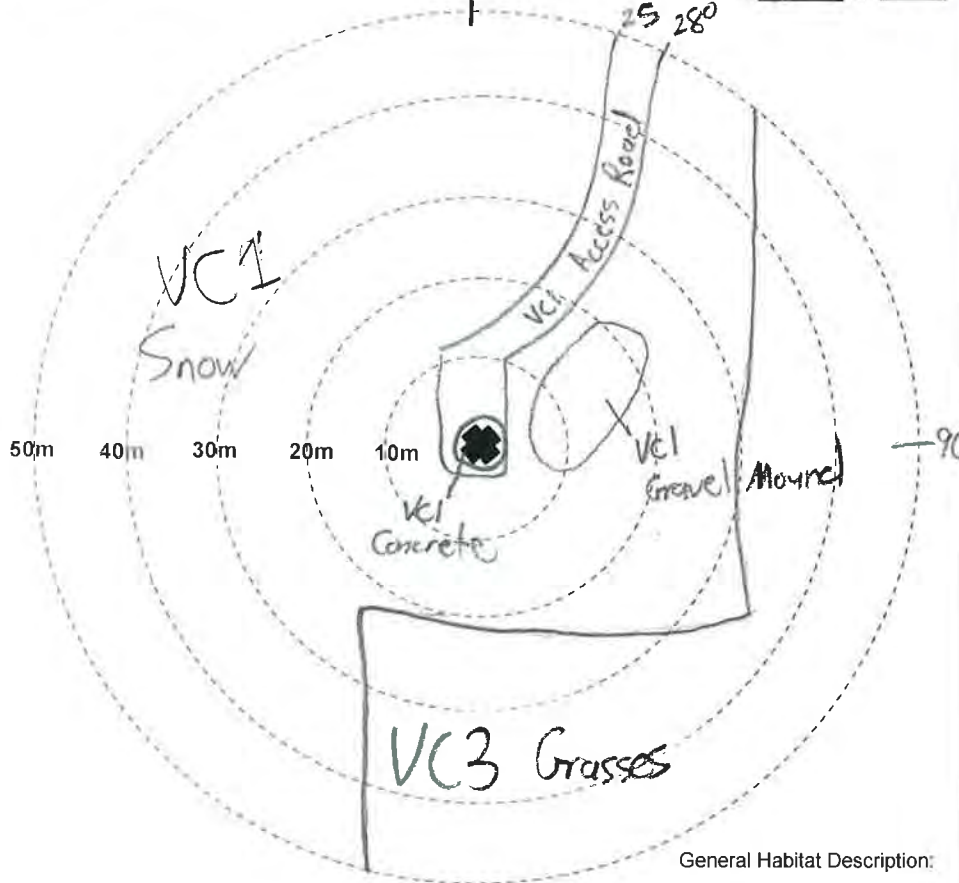
Photo Numbers (from turbine base)
 Facing North: 2854
 Facing East: 2855
 Facing South: 2856
 Facing West: 2857
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 14/02/19

Observer: BAA

Monthly/Seasonal Linear Transect Width: 5 m

↑
N



General Habitat Description: _____

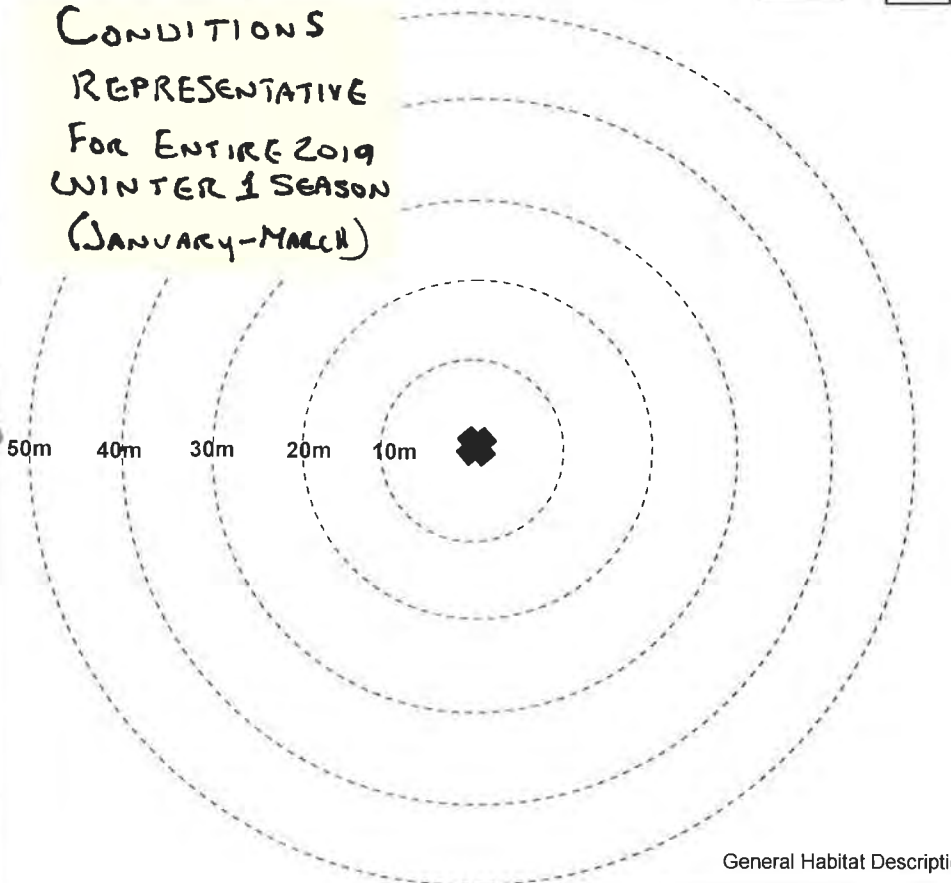
Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___

Observer: _____

Monthly/Seasonal Linear Transect Width: _____ m

↑
N



General Habitat Description: _____

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island Wf Project #: 221B Turbine #: 509

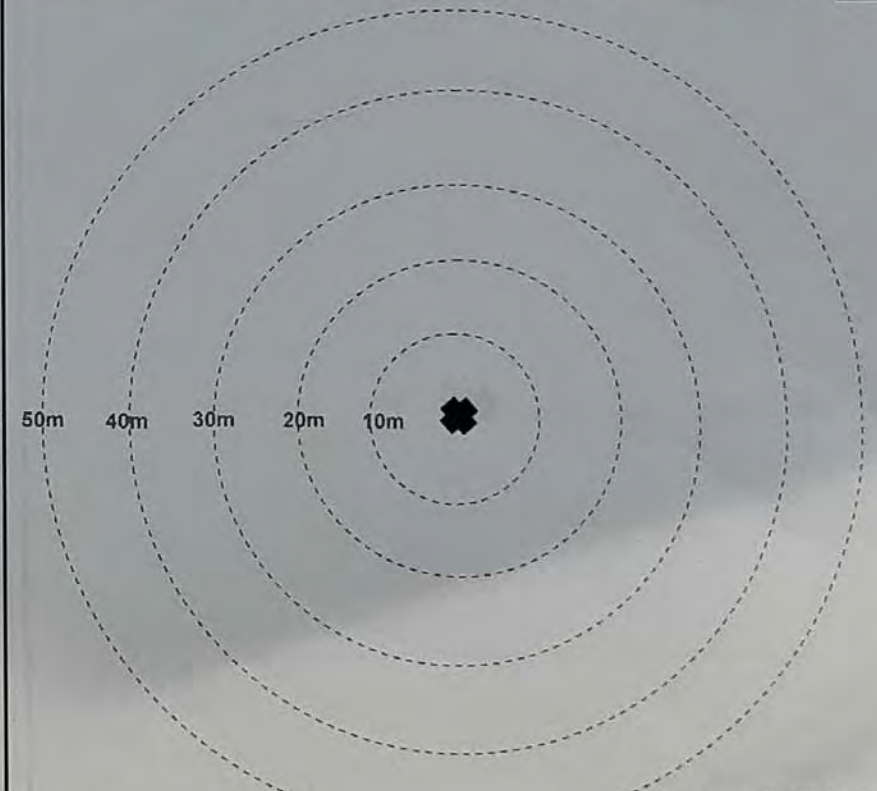
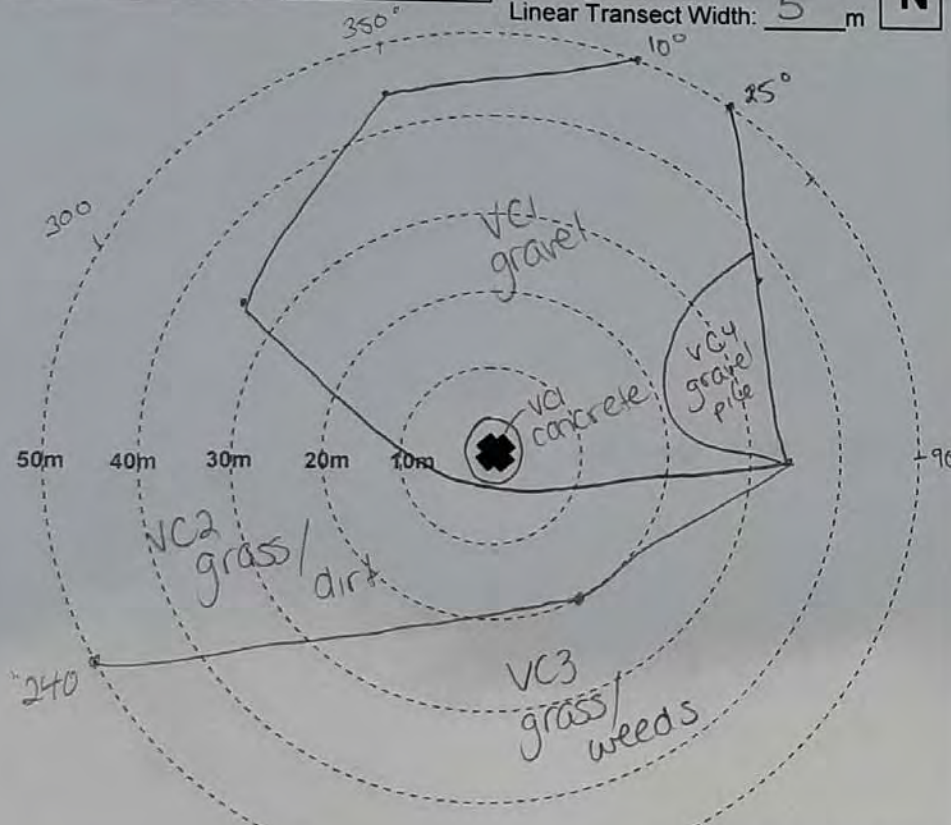
Photo Numbers (from turbine base)
 Facing North: 221210
 Facing East: 221211
 Facing South: 221212
 Facing West: 221213
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 22/12/19
 Observer: J4B
 Monthly/Seasonal
 Linear Transect Width: 5 m



Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



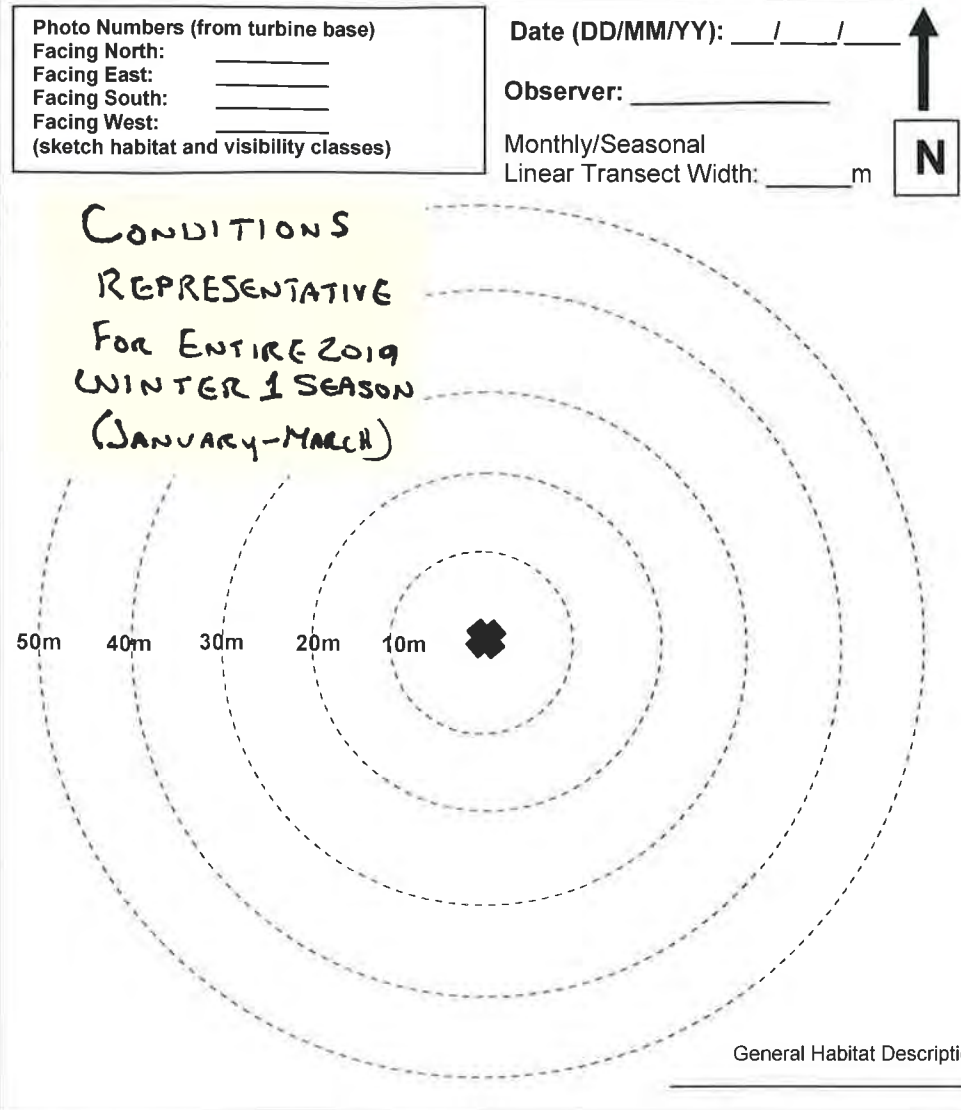
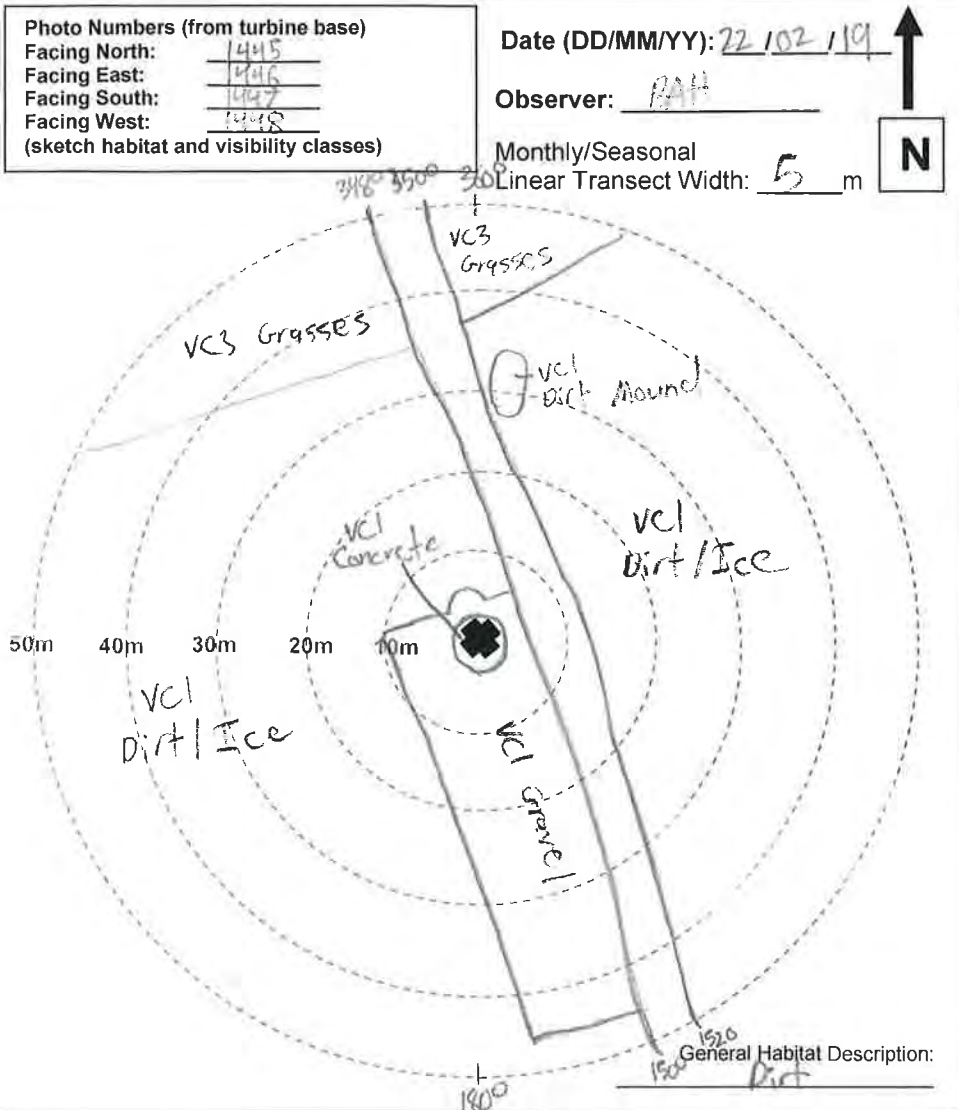
General Habitat Description:
field surrounded by forest

General Habitat Description:

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121A Turbine #: 511 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island W/P Project #: 2121B Turbine #: 511

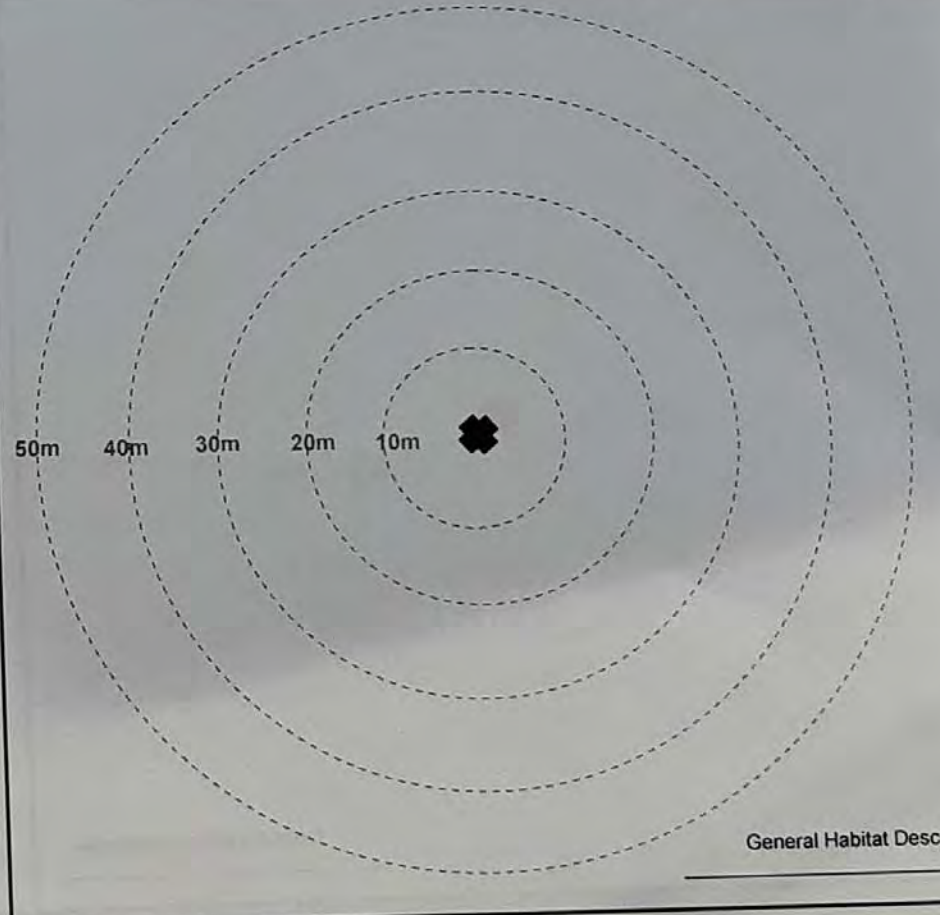
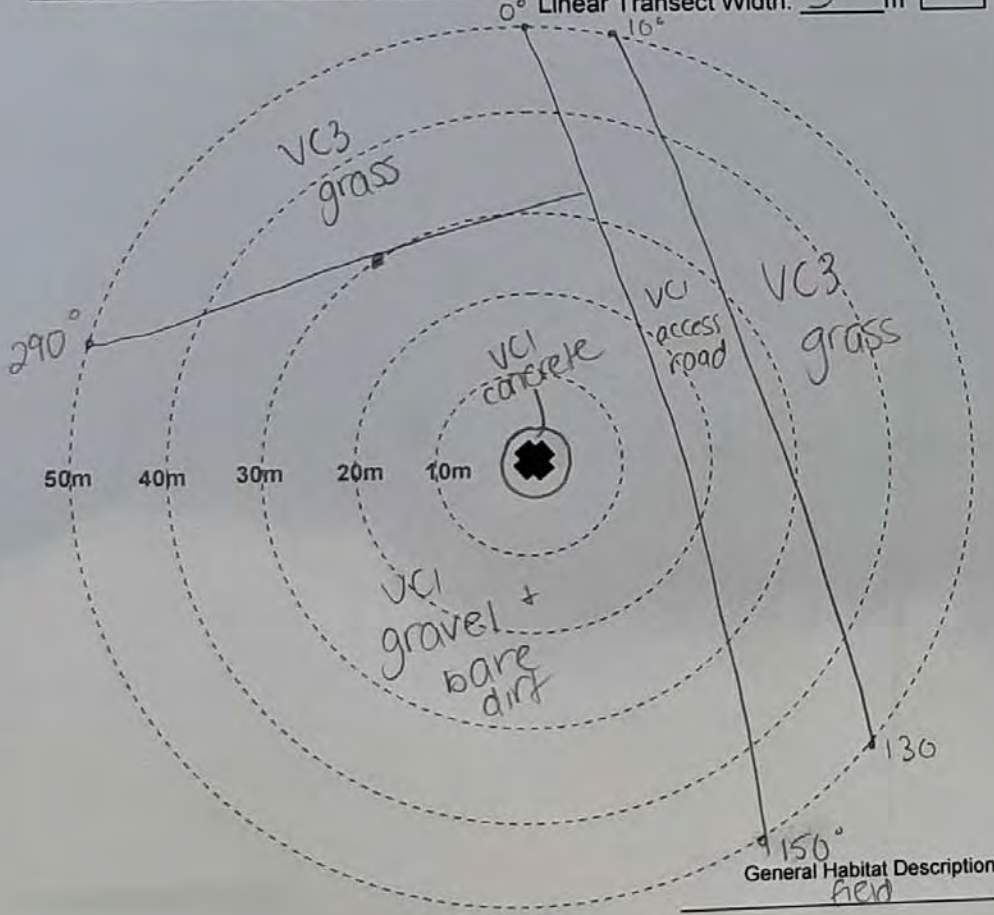
Photo Numbers (from turbine base)
 Facing North: 221233
 Facing East: 221234
 Facing South: 221235
 Facing West: 221236
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 22/12/19
 Observer: J4B
 Monthly/Seasonal Linear Transect Width: 5 m



Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121A Turbine #: 513 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

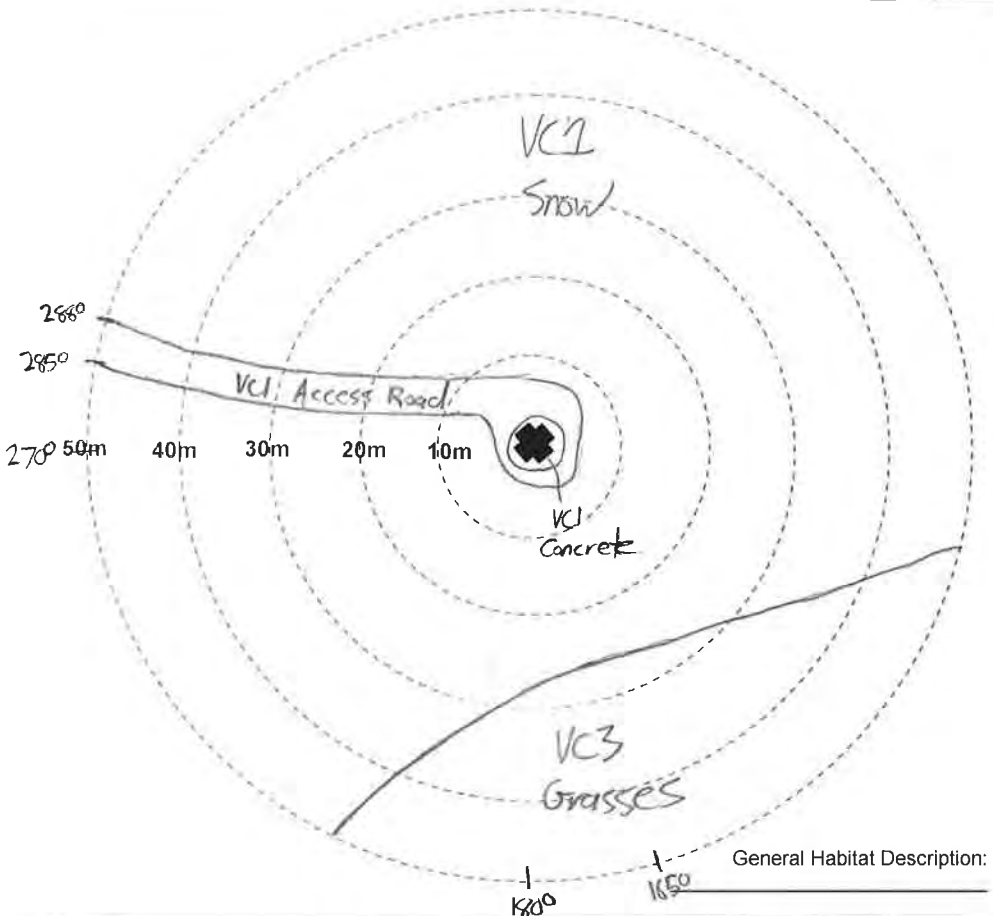
Photo Numbers (from turbine base)
 Facing North: 2844
 Facing East: 2845
 Facing South: 2846
 Facing West: 2847
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 15/02/19
 Observer: BAP
 Monthly/Seasonal Linear Transect Width: 5 m

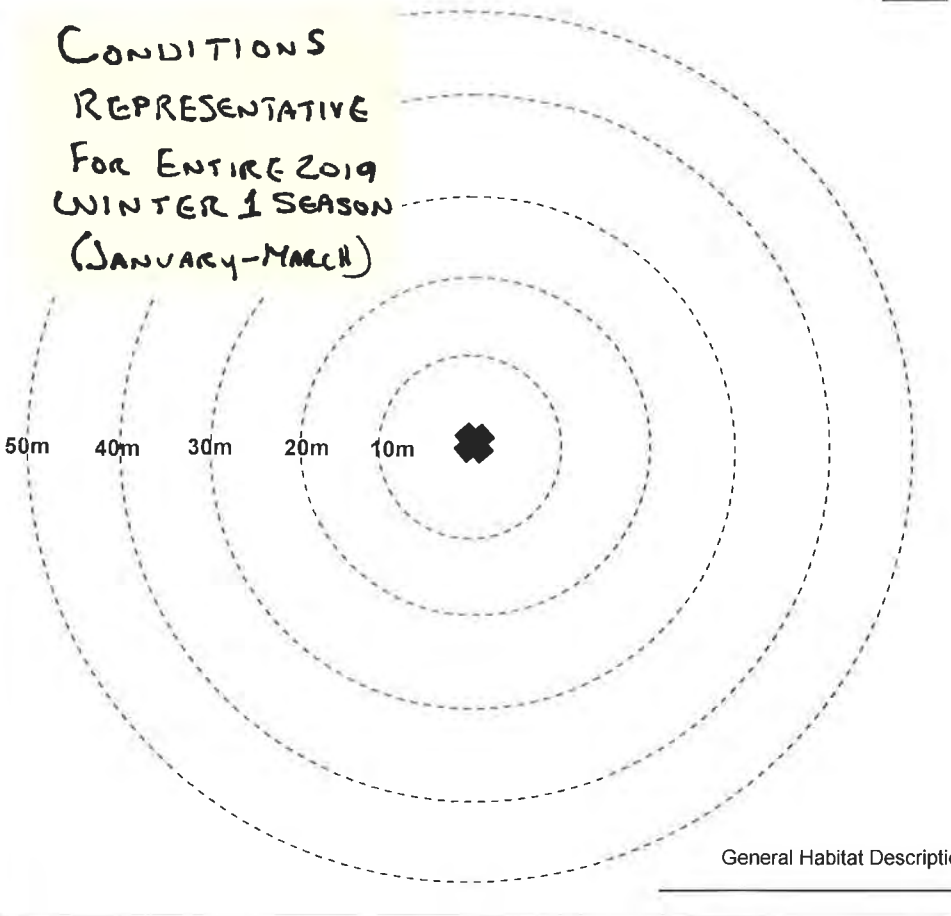


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal Linear Transect Width: _____ m



General Habitat Description: _____



General Habitat Description: _____

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

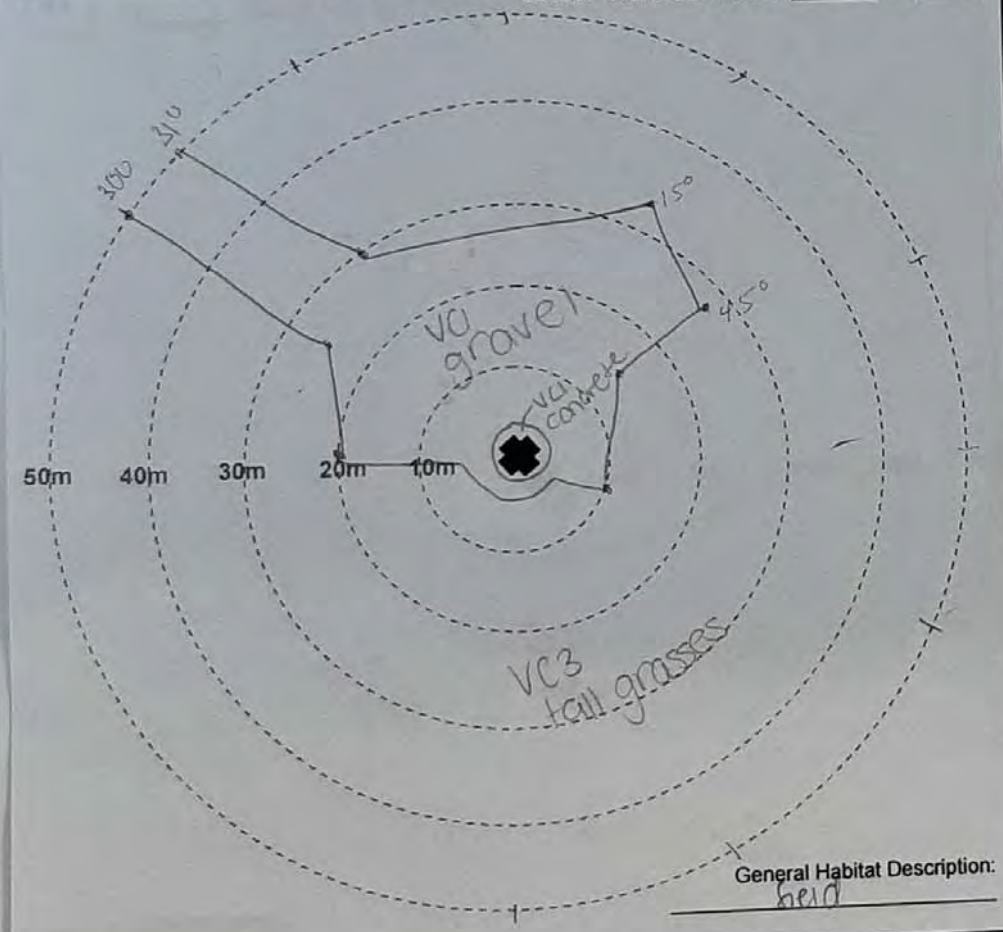
Project Name: Amherst Island WP Project #: 21218 Turbine #: 313 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 231213
 Facing East: 231214
 Facing South: 231215
 Facing West: 231216
 (sketch habitat and visibility classes)

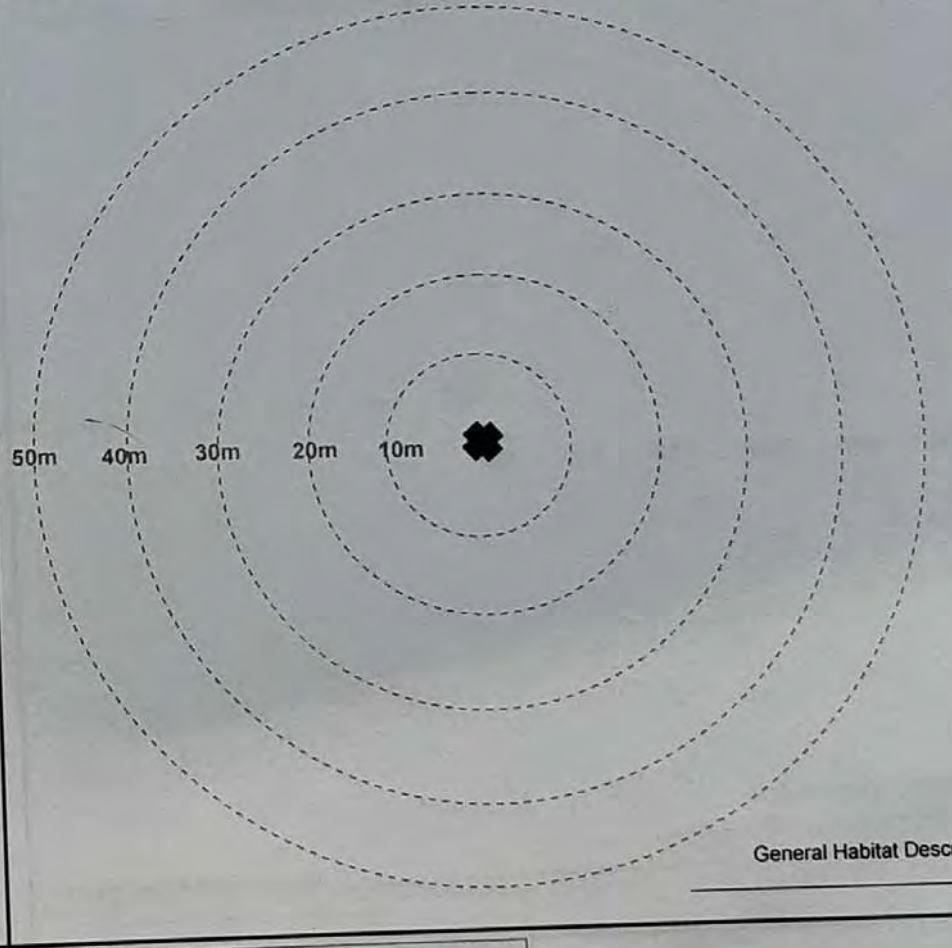
Date (DD/MM/YY): 23/12/19
 Observer: J4B
 Monthly/Seasonal Linear Transect Width: 5 m

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal Linear Transect Width: _____ m



General Habitat Description: field



General Habitat Description: _____

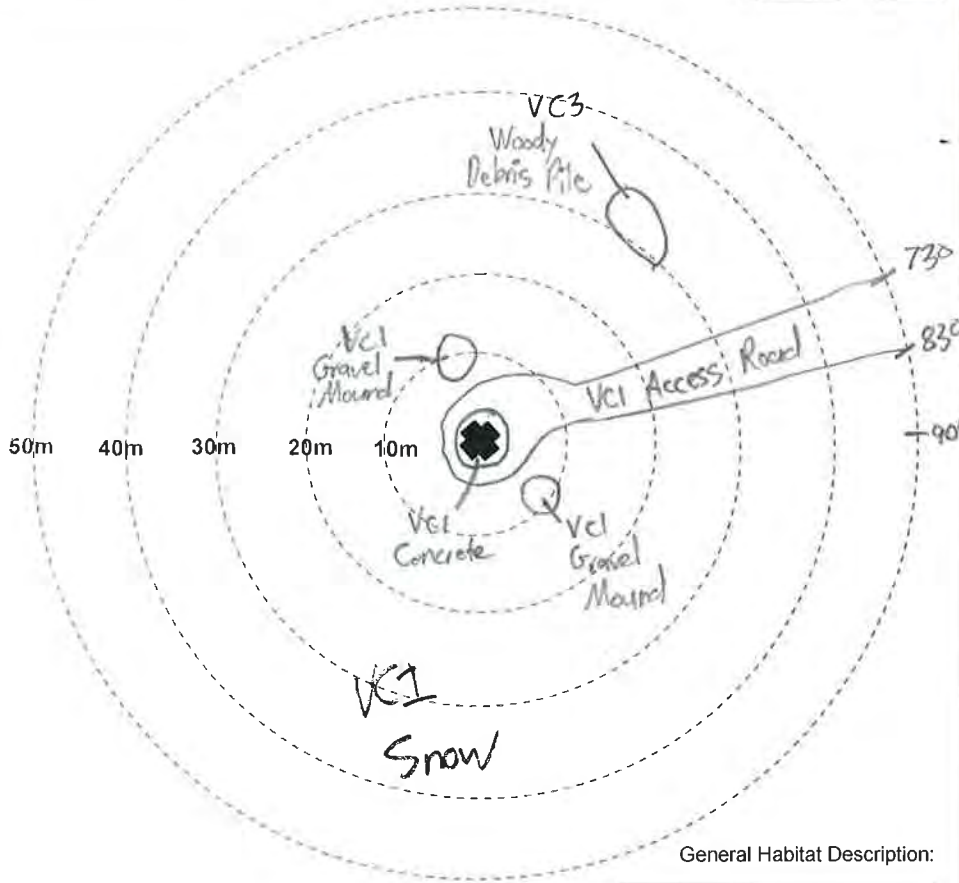
VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121A Turbine #: 514 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 1492
 Facing East: 1493
 Facing South: 1424
 Facing West: 1425
 (sketch habitat and visibility classes)

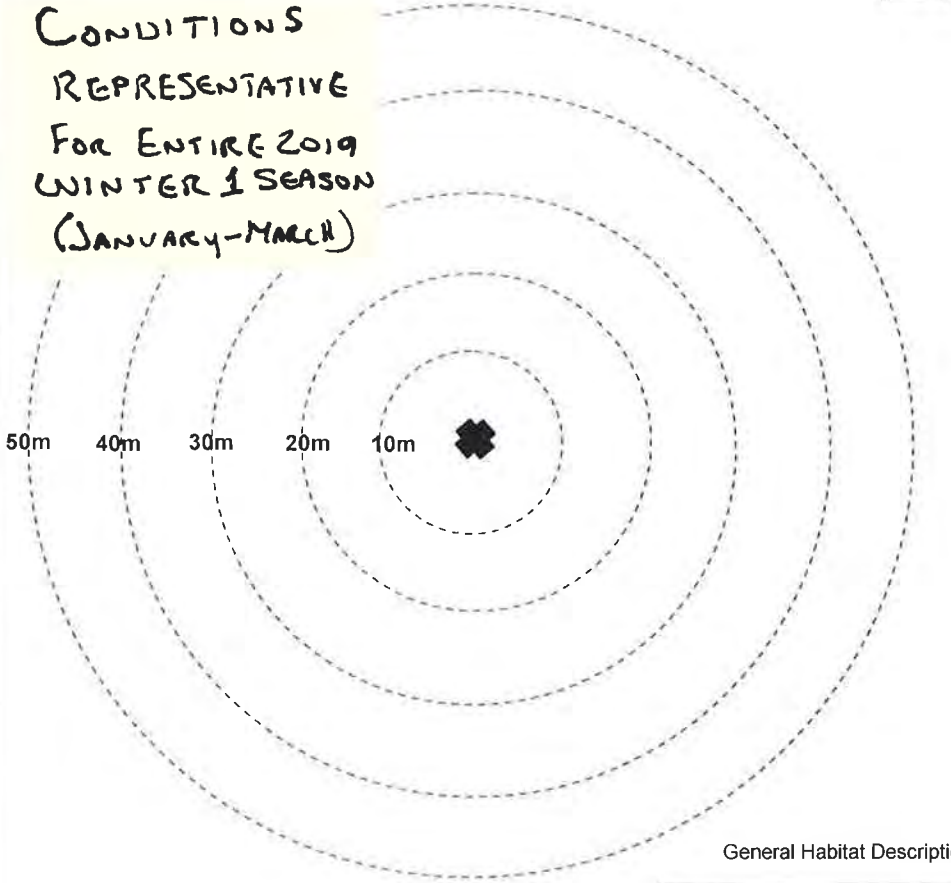
Date (DD/MM/YY): 15/02/19 ↑
 Observer: BAH
 Monthly/Seasonal Linear Transect Width: 5 m **N**



General Habitat Description: _____

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___ ↑
 Observer: _____
 Monthly/Seasonal Linear Transect Width: _____ m **N**



General Habitat Description: _____

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121B Turbine #: S14 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 1826
 Facing East: 1827
 Facing South: 1828
 Facing West: 1829
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 05/04/19
 Observer: Shelby H.
 Monthly/Seasonal
 Linear Transect Width: 5 m

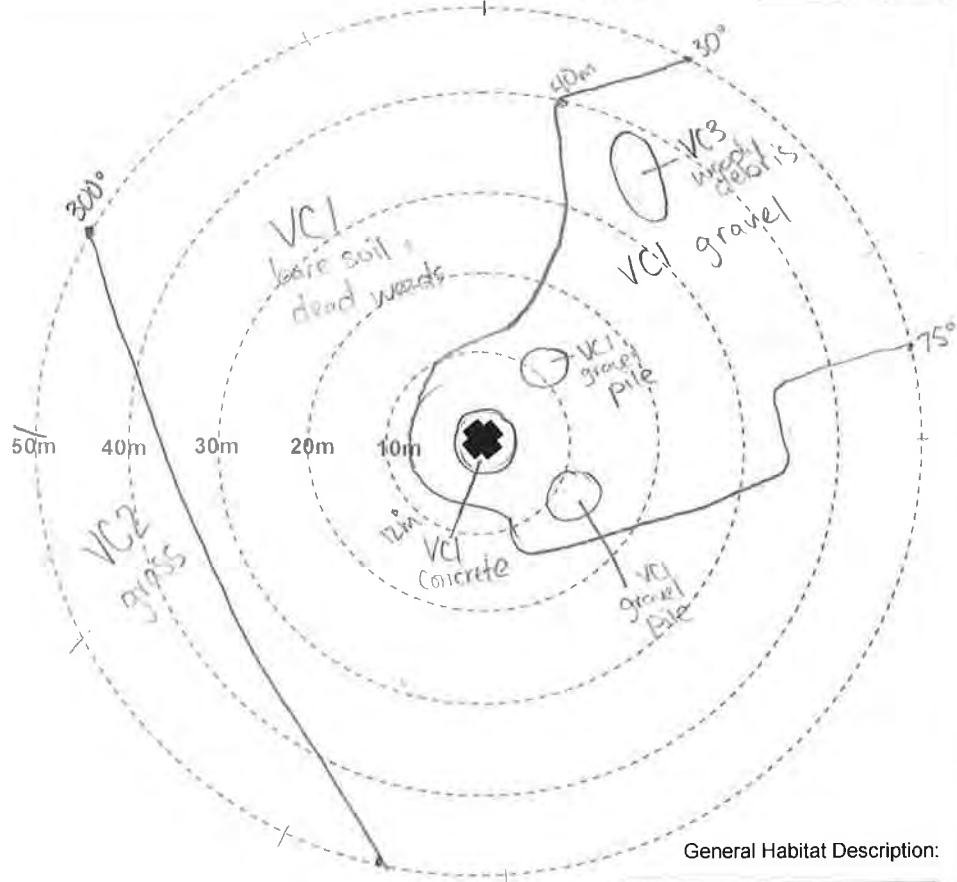
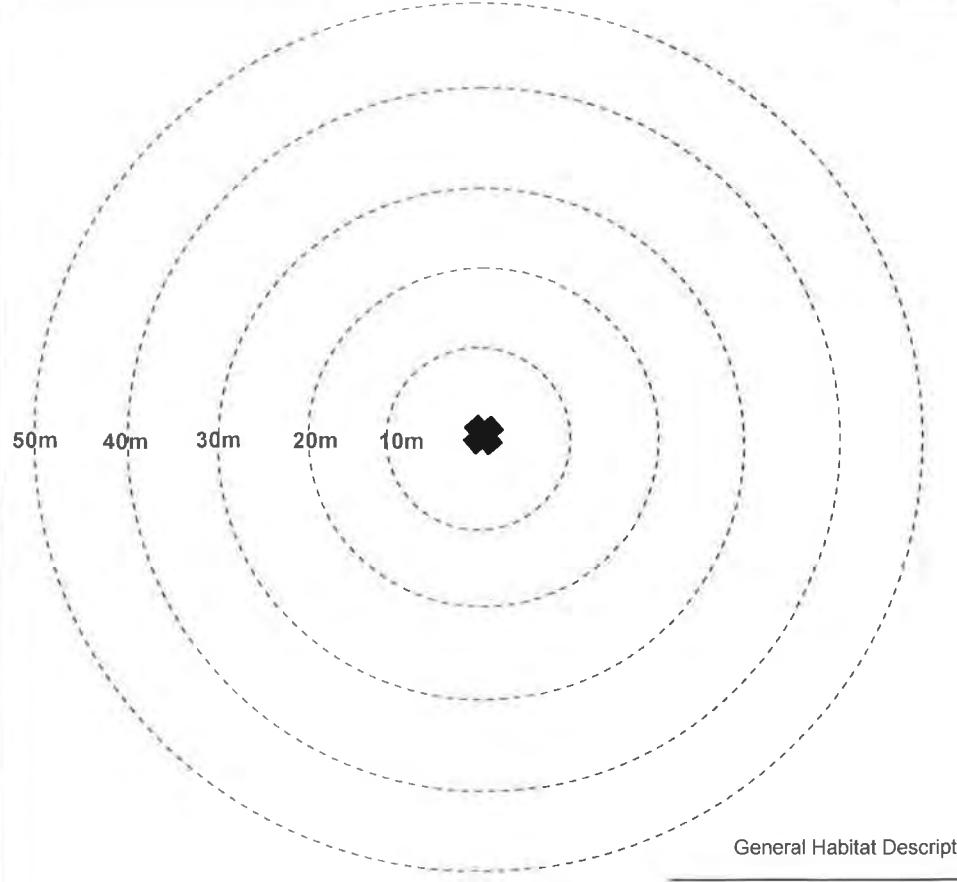


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ____/____/____
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island up Project #: 21012 Turbine #: S14 Degree of Slope 11.5 degrees Slope Orientation NW (e.g. SSW)

up + 1
down + 2

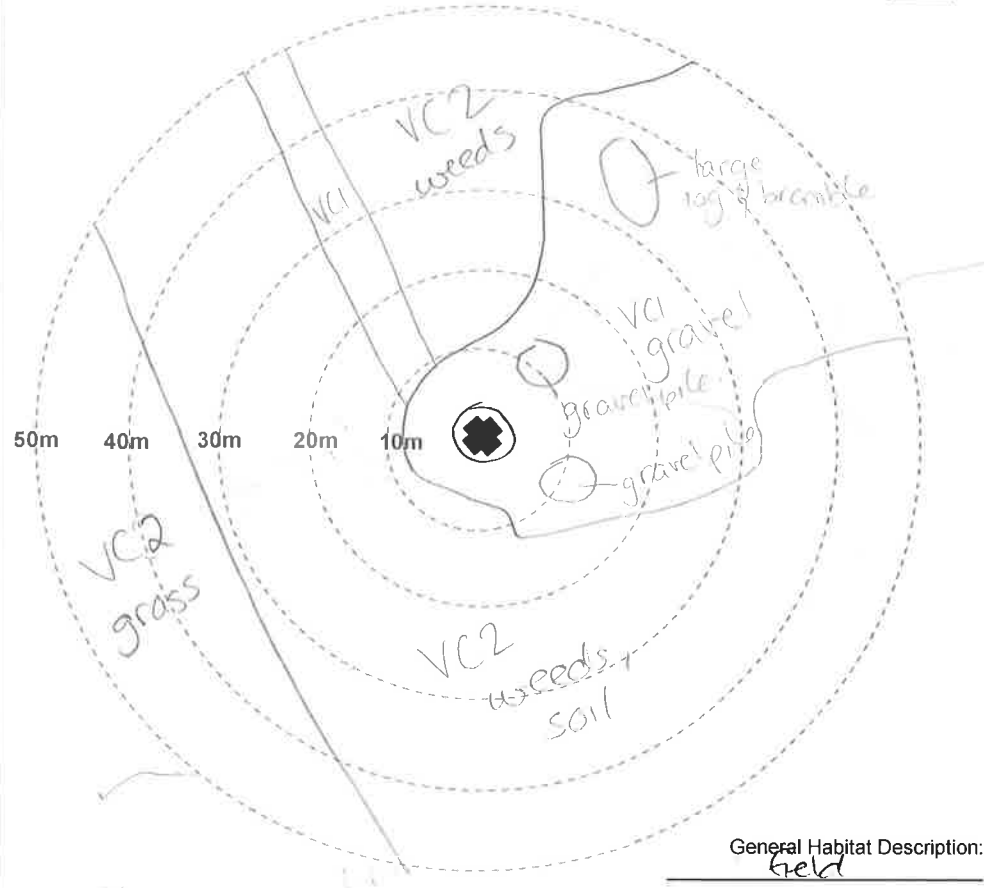
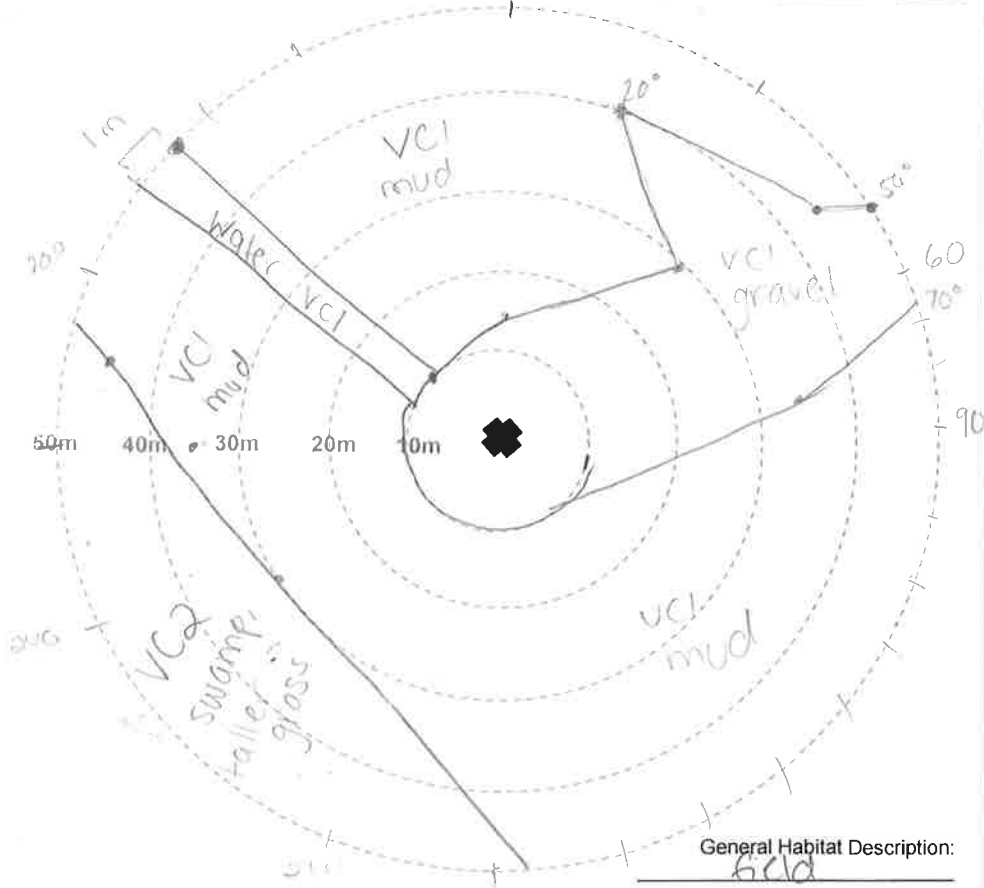
Photo Numbers (from turbine base)
Facing North: 2245
Facing East: 2246
Facing South: 2247
Facing West: 2248
(sketch habitat and visibility classes)

Date (DD/MM/YY): 07/05/19
Observer: JNB
Monthly/Seasonal
Linear Transect Width: 5 m



Photo Numbers (from turbine base)
Facing North: 2187
Facing East: 2188
Facing South: 2189
Facing West: 2191
(sketch habitat and visibility classes)

Date (DD/MM/YY): 07/06/19
Observer: JYP
Monthly/Seasonal
Linear Transect Width: 5 m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Analost W.P. Project #: 201B Turbine #: S14

Photo Numbers (from turbine base)
 Facing North: 152524
 Facing East: 152537
 Facing South: 152538
 Facing West: 152548
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 11/07/19
 Observer: MRI
 Monthly/Seasonal
 Linear Transect Width: 5 m

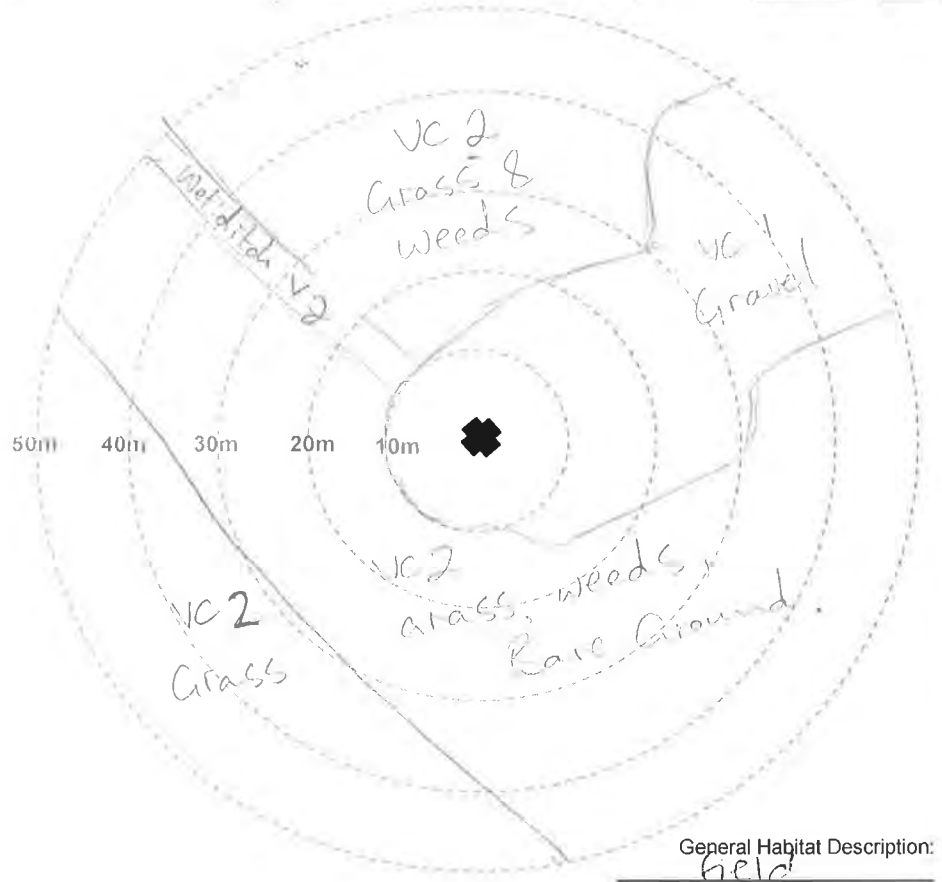
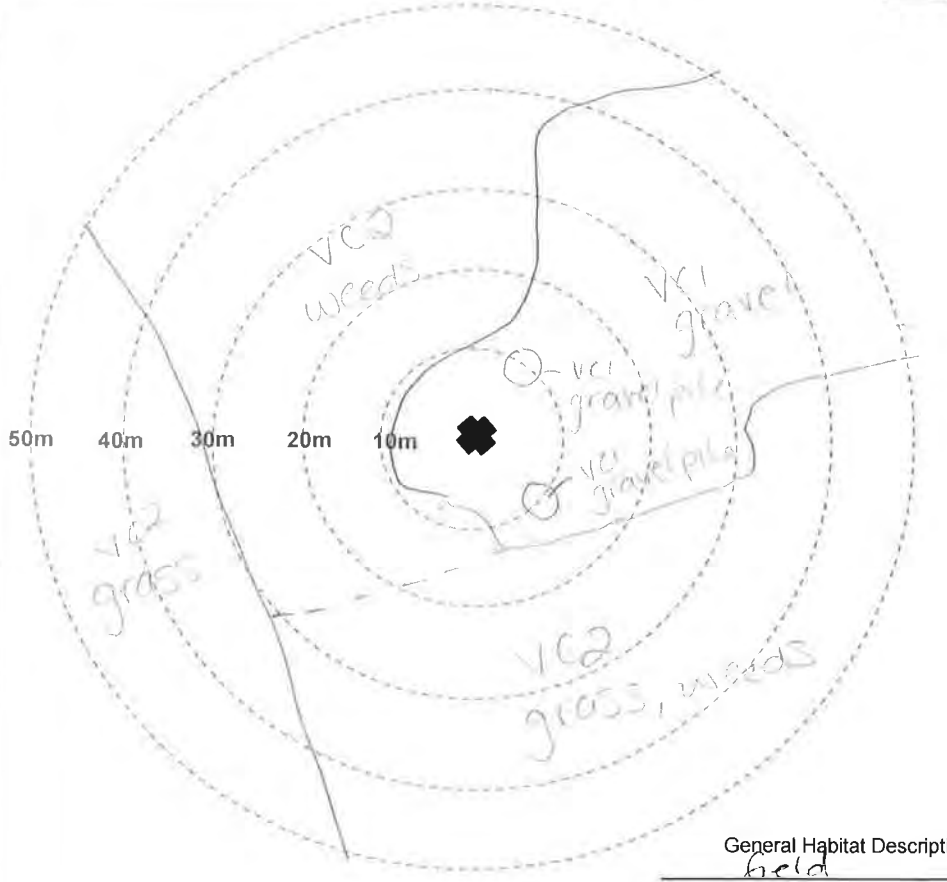


Photo Numbers (from turbine base)
 Facing North: 2608
 Facing East: 2609
 Facing South: 2610
 Facing West: 2611
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 05/08/19
 Observer: JYP
 Monthly/Seasonal
 Linear Transect Width: 5 m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 21218 Turbine #: 514

Photo Numbers (from turbine base)
 Facing North: 90917
 Facing East: 90918
 Facing South: 90919
 Facing West: 90920
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 09/09/19
 Observer: J4B
 Monthly/Seasonal
 Linear Transect Width: 5 m

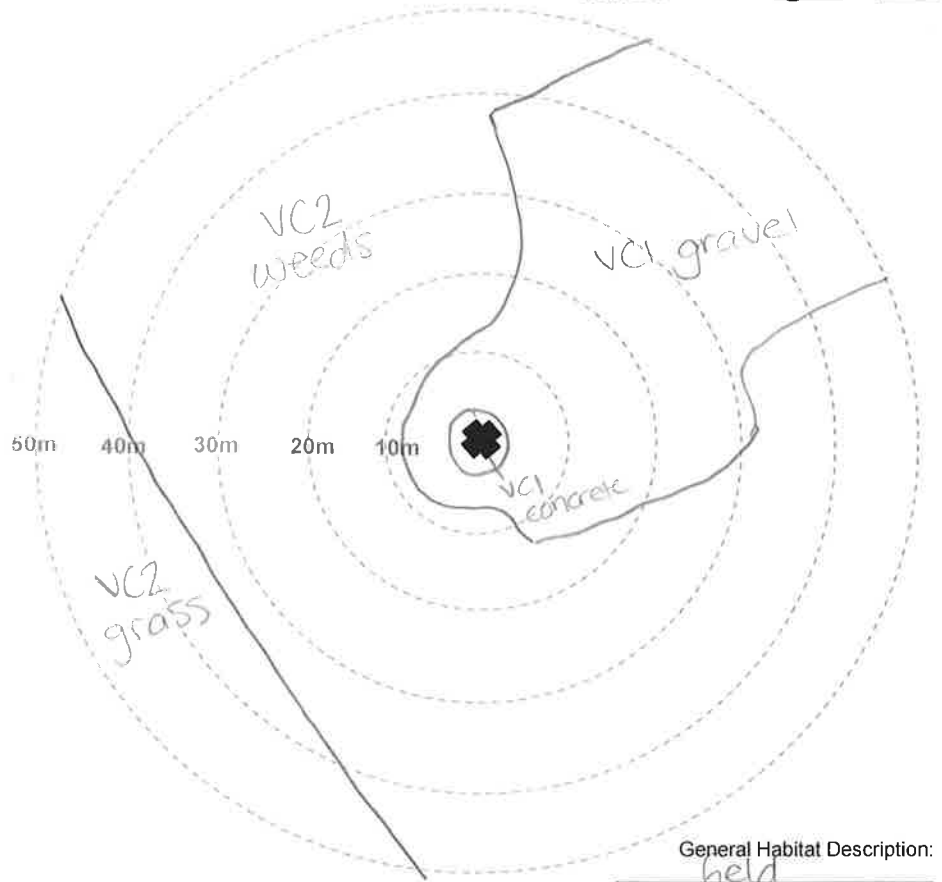
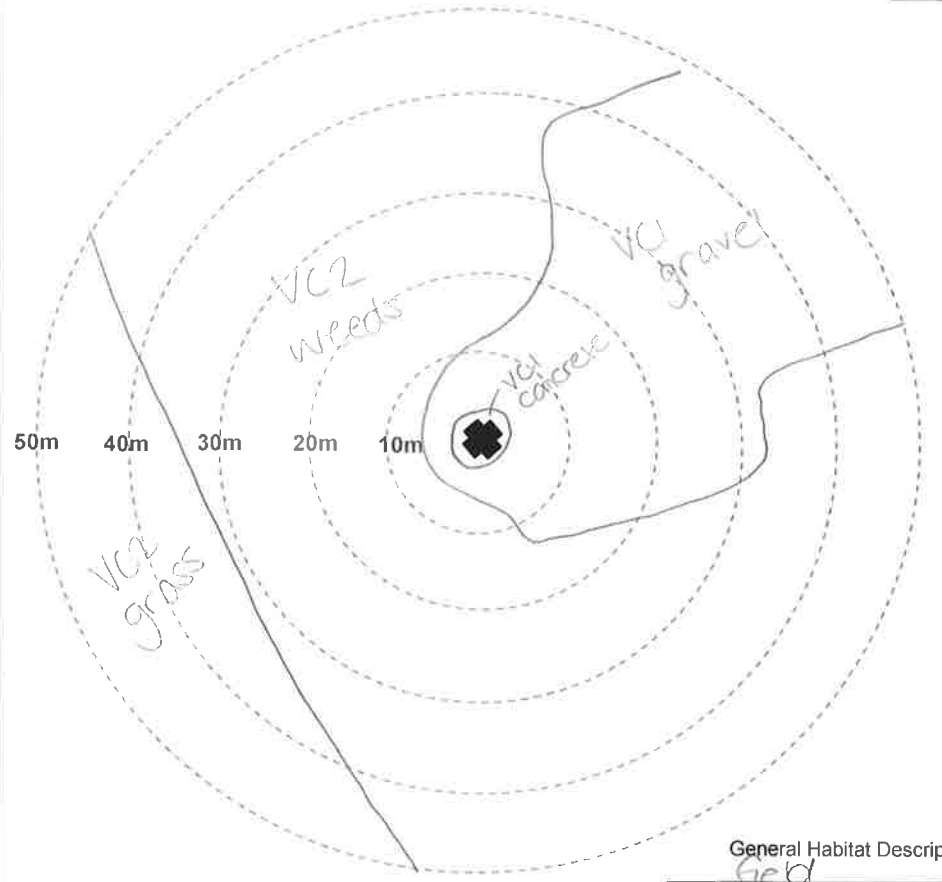


Photo Numbers (from turbine base)
 Facing North: 162421
 Facing East: 162422
 Facing South: 162423
 Facing West: 162424
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 24/10/19
 Observer: J4B
 Monthly/Seasonal
 Linear Transect Width: 5 m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island W/P Project #: 1121B Turbine #: 514

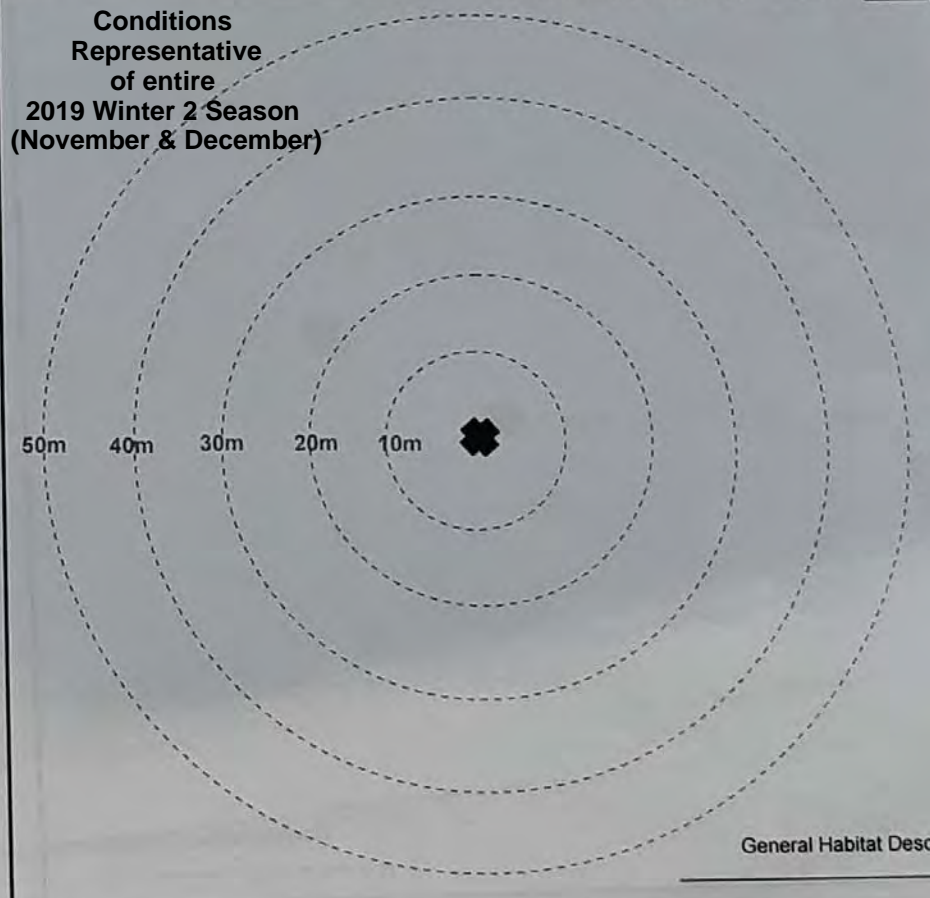
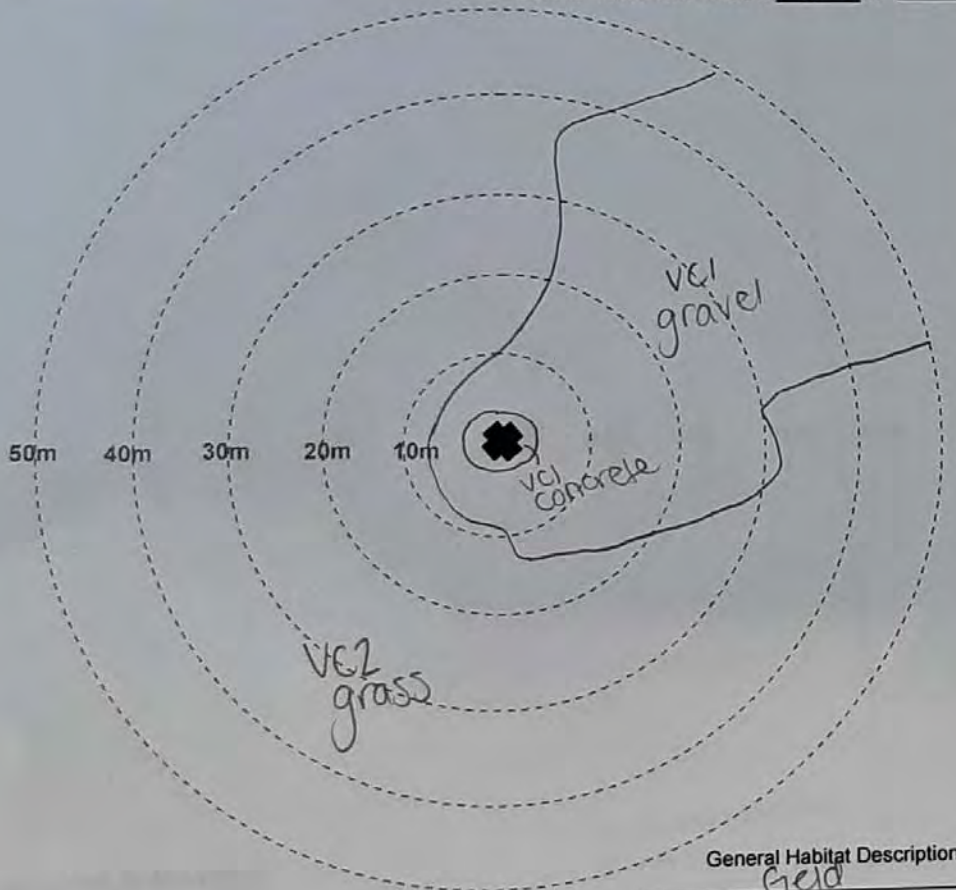
Photo Numbers (from turbine base)
 Facing North: 231229
 Facing East: 231230
 Facing South: 231231
 Facing West: 231232
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 23/12/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 5 m



Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121A Turbine #: S18 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 2850
 Facing East: 2851
 Facing South: 2852
 Facing West: 2853
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 15/02/19

Observer: BAH

Monthly/Seasonal Linear Transect Width: 5 m

↑
N

General Habitat Description: _____

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___

Observer: _____

Monthly/Seasonal Linear Transect Width: _____ m

↑
N

CONDITIONS
 REPRESENTATIVE
 FOR ENTIRE 2019
 WINTER 1 SEASON
 (JANUARY-MARCH)

General Habitat Description: _____

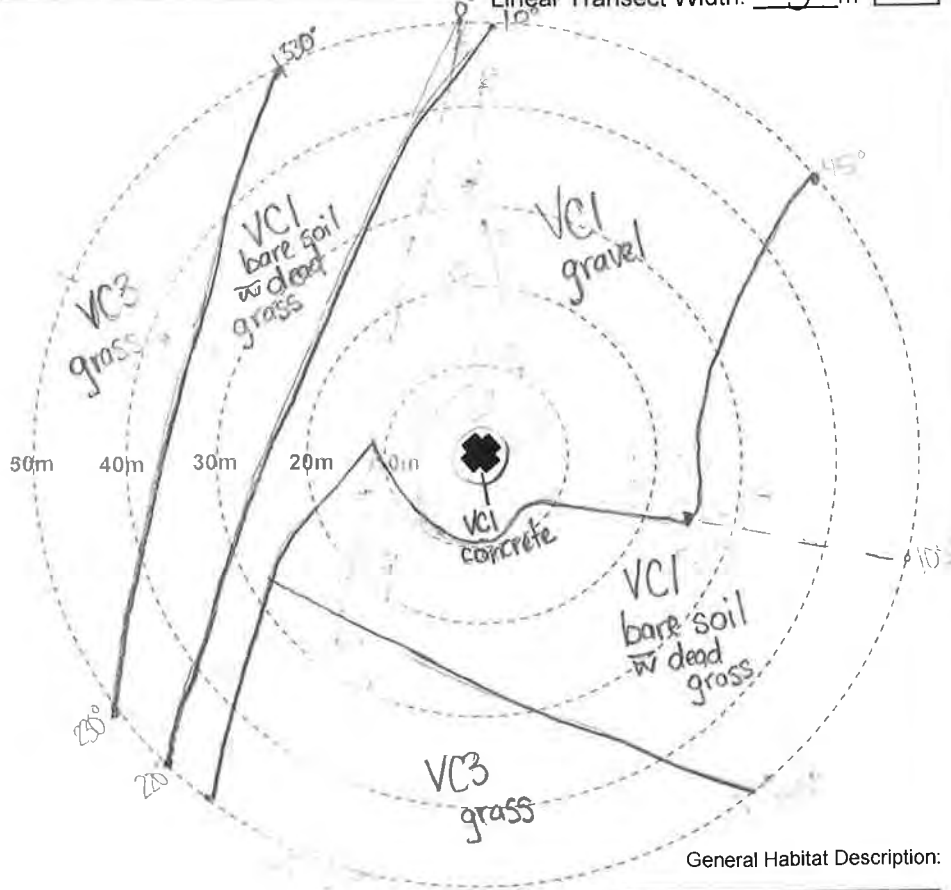
VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 21218 Turbine #: 918 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 1825
 Facing East: 1821
 Facing South: 1822
 Facing West: 1833
 (sketch habitat and visibility classes)

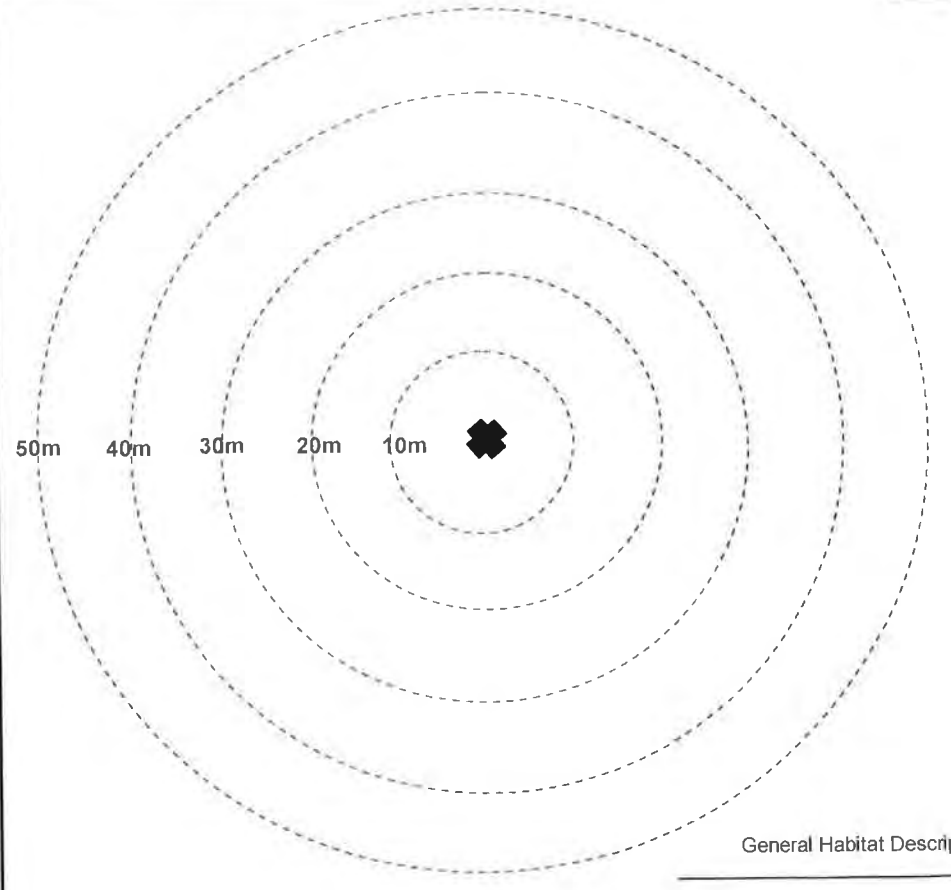
Date (DD/MM/YY): 05/04/19
 Observer: Shelby H
 Monthly/Seasonal
 Linear Transect Width: 5 m



General Habitat Description: _____

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ____/____/____
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



General Habitat Description: _____

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

up + 0
down + 2

Project Name: Amherst Island W2 Project #: 21012 Turbine #: 518 Degree of Slope +1 degrees Slope Orientation S (e.g. SSW)

Photo Numbers (from turbine base)
Facing North: 2258
Facing East: 2259
Facing South: 2260
Facing West: 2261
(sketch habitat and visibility classes)

Date (DD/MM/YY): 07/05/19
Observer: JNB
Monthly/Seasonal
Linear Transect Width: 5 m

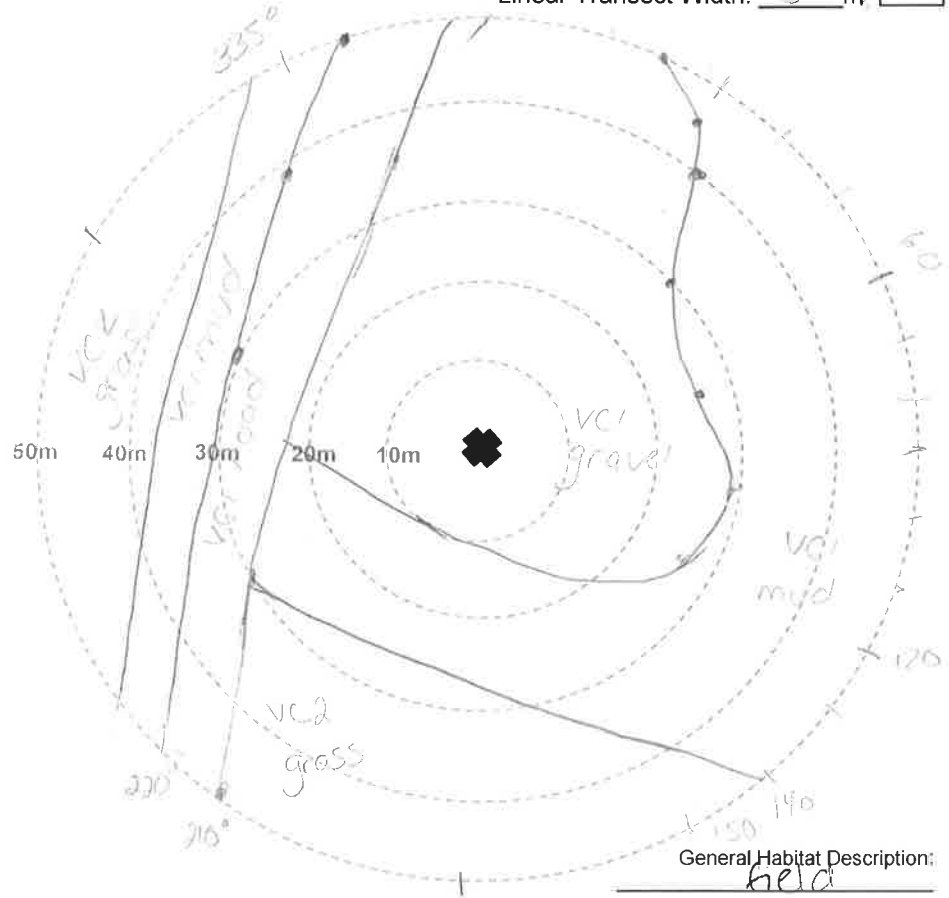
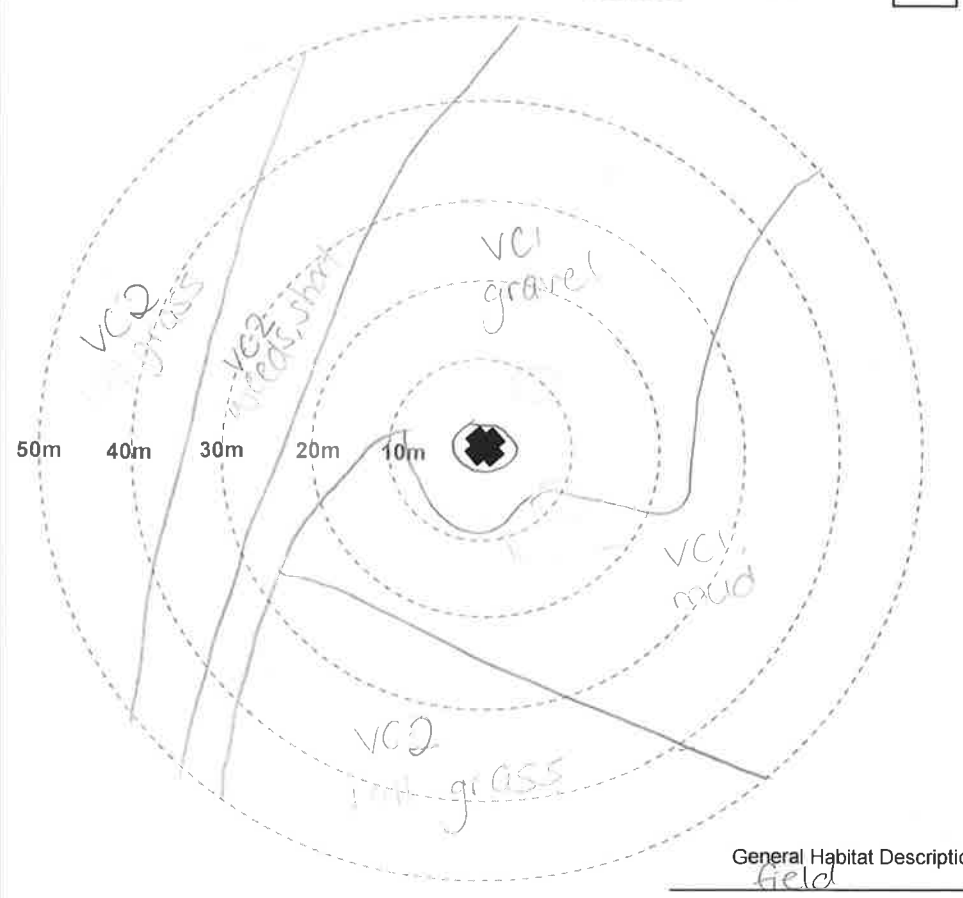


Photo Numbers (from turbine base)
Facing North: 2426
Facing East: 2427
Facing South: 2428
Facing West: 2429
(sketch habitat and visibility classes)

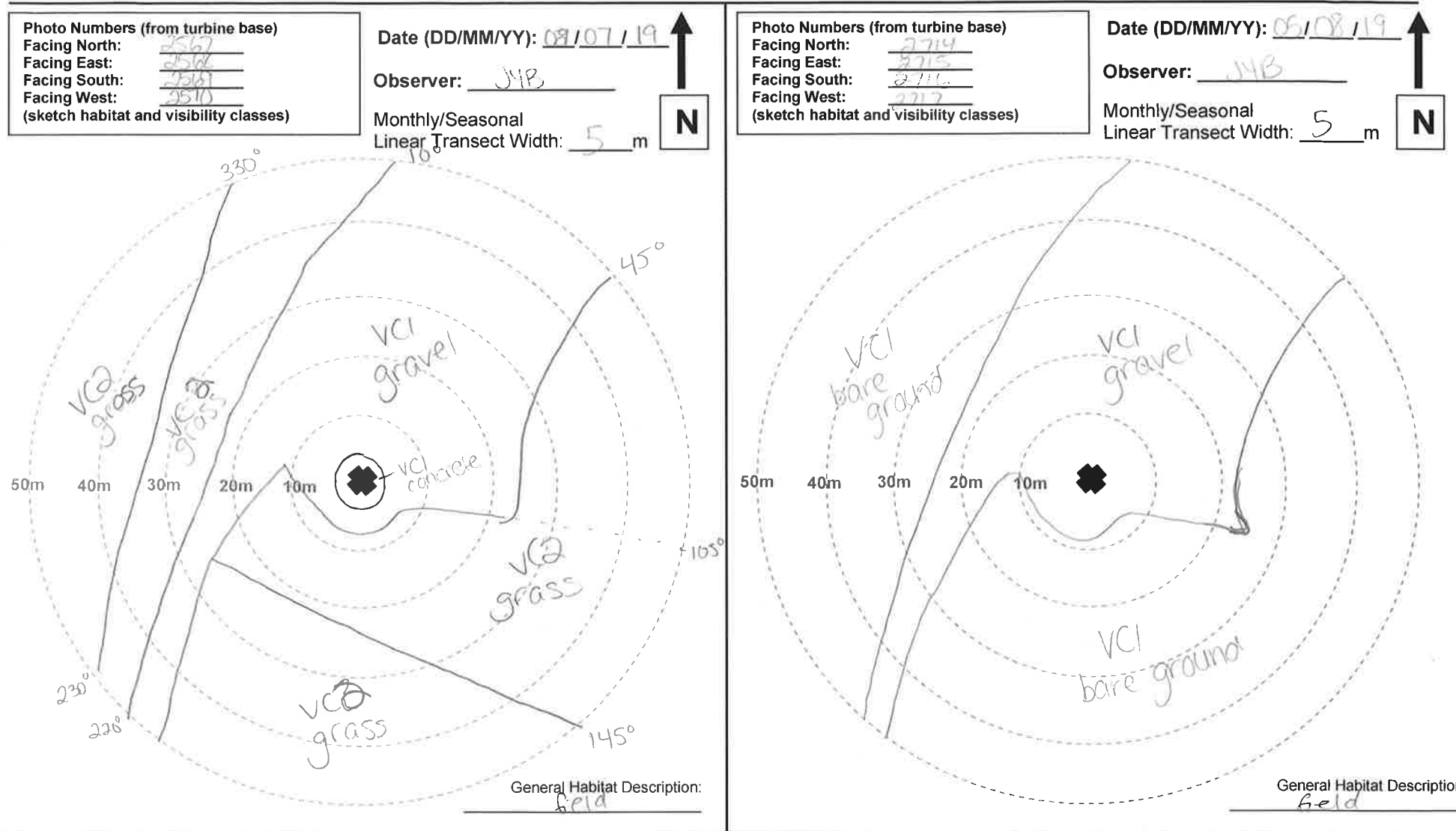
Date (DD/MM/YY): 07/06/19
Observer: JNB
Monthly/Seasonal
Linear Transect Width: 5 m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Ambers Island IWP Project #: 2018 Turbine #: S18



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2218 Turbine #: 518

Photo Numbers (from turbine base)
 Facing North: 909103
 Facing East: 909104
 Facing South: 909105
 Facing West: 909106
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 09/09/19

Observer: JYB

Monthly/Seasonal
 Linear Transect Width: 5 m

↑
N



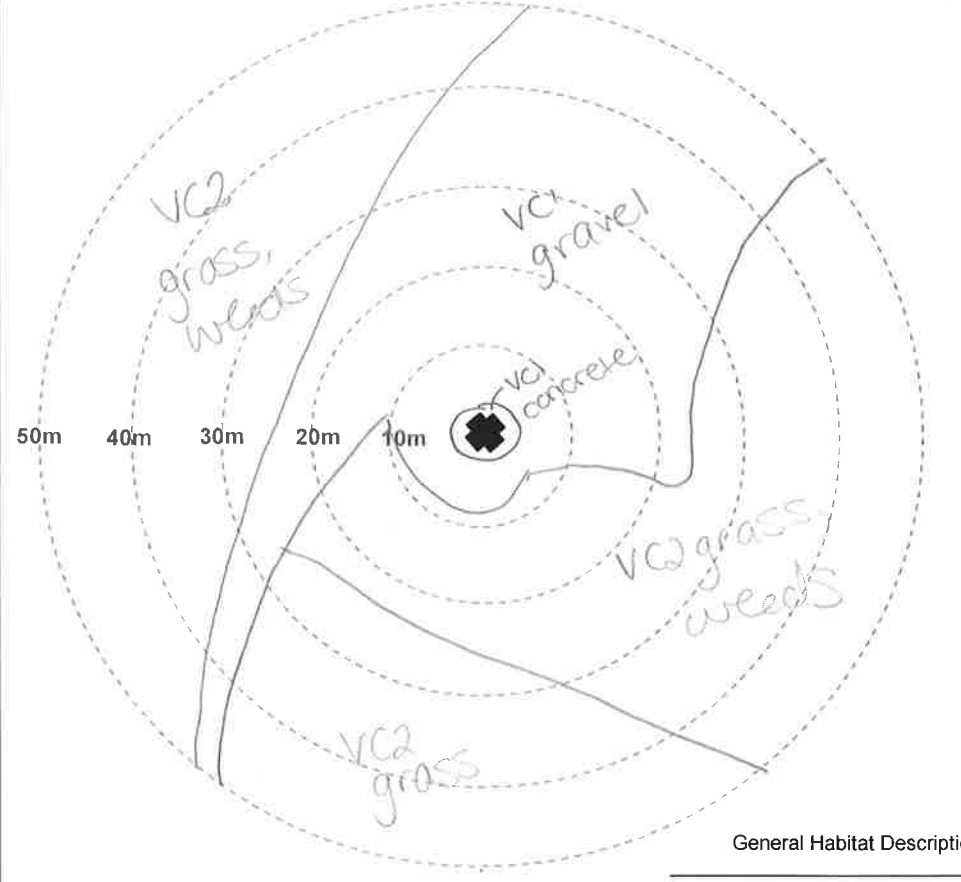
Photo Numbers (from turbine base)
 Facing North: 102442
 Facing East: 102443
 Facing South: 102444
 Facing West: 102445
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 24/10/19

Observer: JYB

Monthly/Seasonal
 Linear Transect Width: 5 m

↑
N



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island w/p Project #: 2121B Turbine #: 518 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 231209
 Facing East: 231210
 Facing South: 231211
 Facing West: 231212
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 23/12/19

Observer: JYB

Monthly/Seasonal
 Linear Transect Width: 5 m

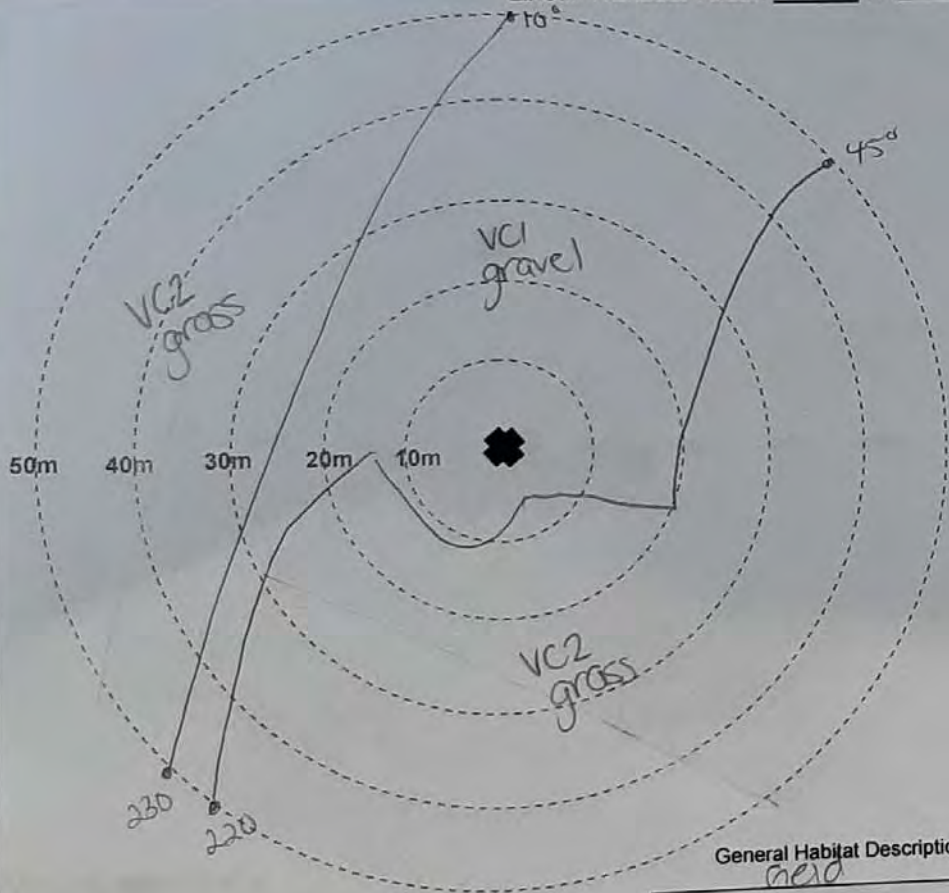


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

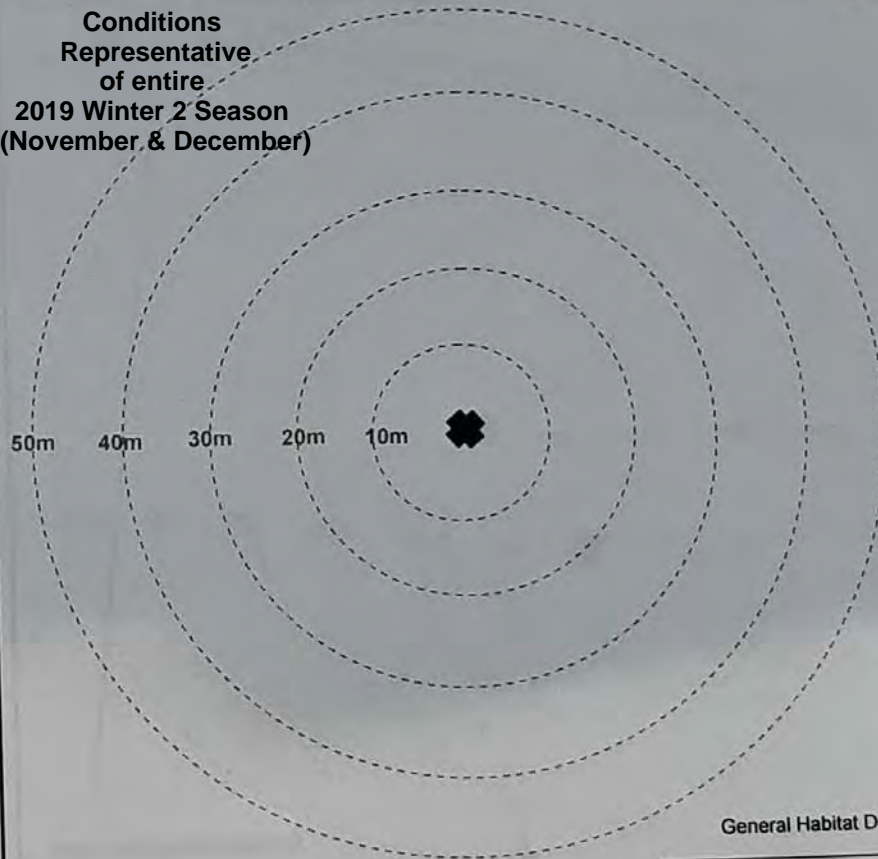
Date (DD/MM/YY): / /

Observer: _____

Monthly/Seasonal
 Linear Transect Width: _____ m



Conditions
 Representative
 of entire
 2019 Winter 2 Season
 (November & December)



VISIBILITY CLASSES

Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

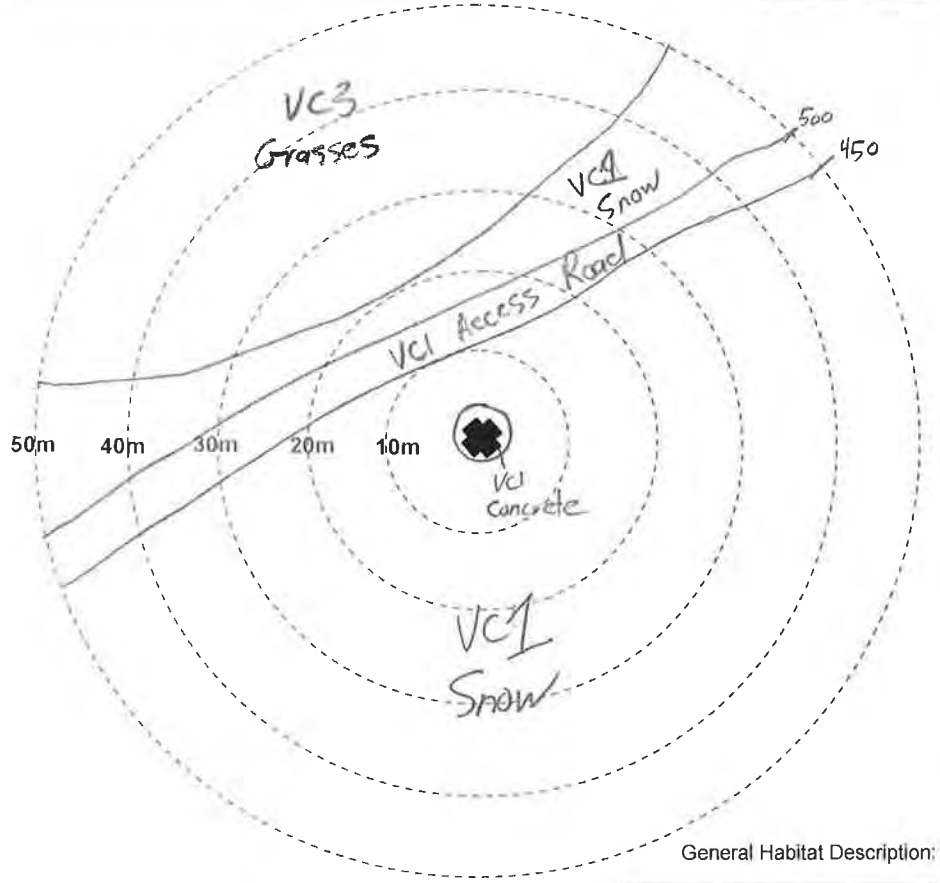
S:\Technical\Data Forms\Bird & Bat Mortality Searches

Visibility Class Map

Project Name: Amherst Island WP Project #: 201A Turbine #: 519 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 2815
 Facing East: 2816
 Facing South: 2817
 Facing West: 2818
 (sketch habitat and visibility classes)

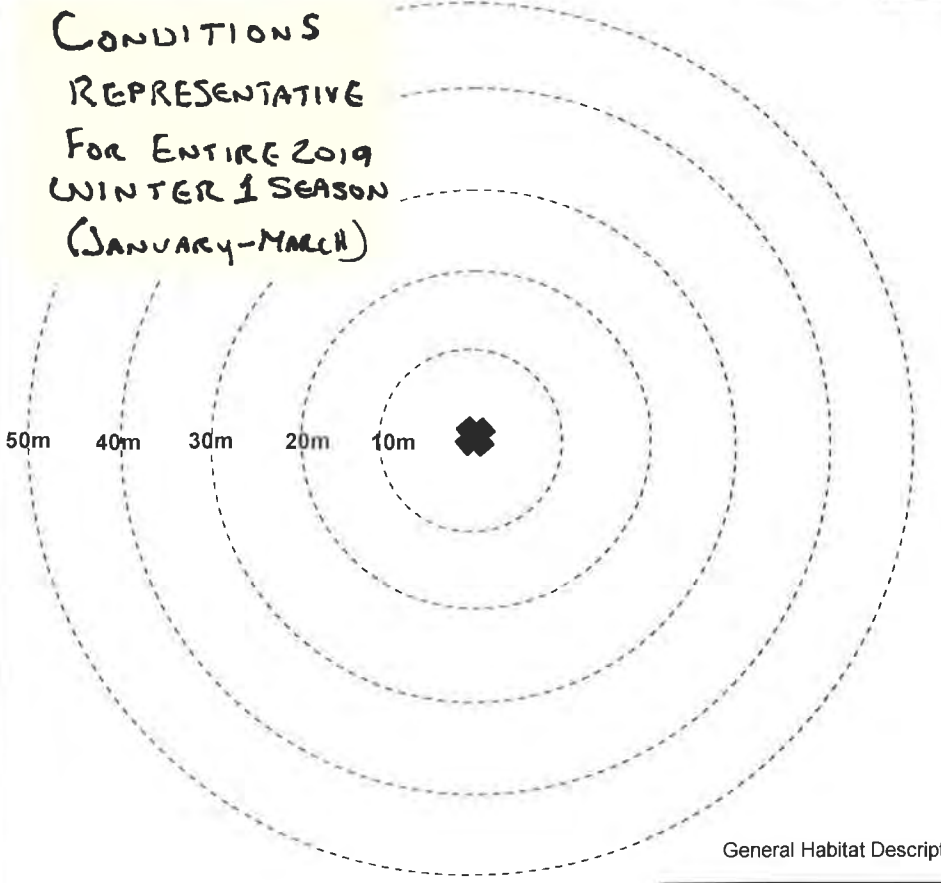
Date (DD/MM/YY): 14/02/19
 Observer: BAA
 Monthly/Seasonal
 Linear Transect Width: 5 m



General Habitat Description:

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



General Habitat Description:

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

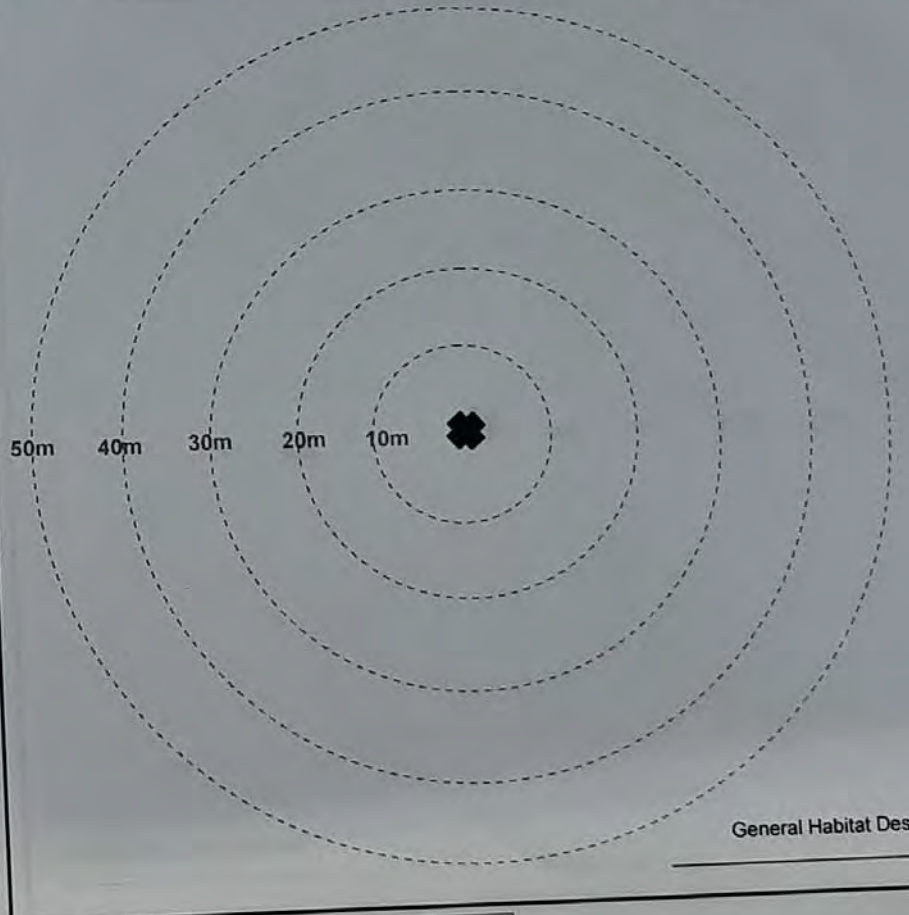
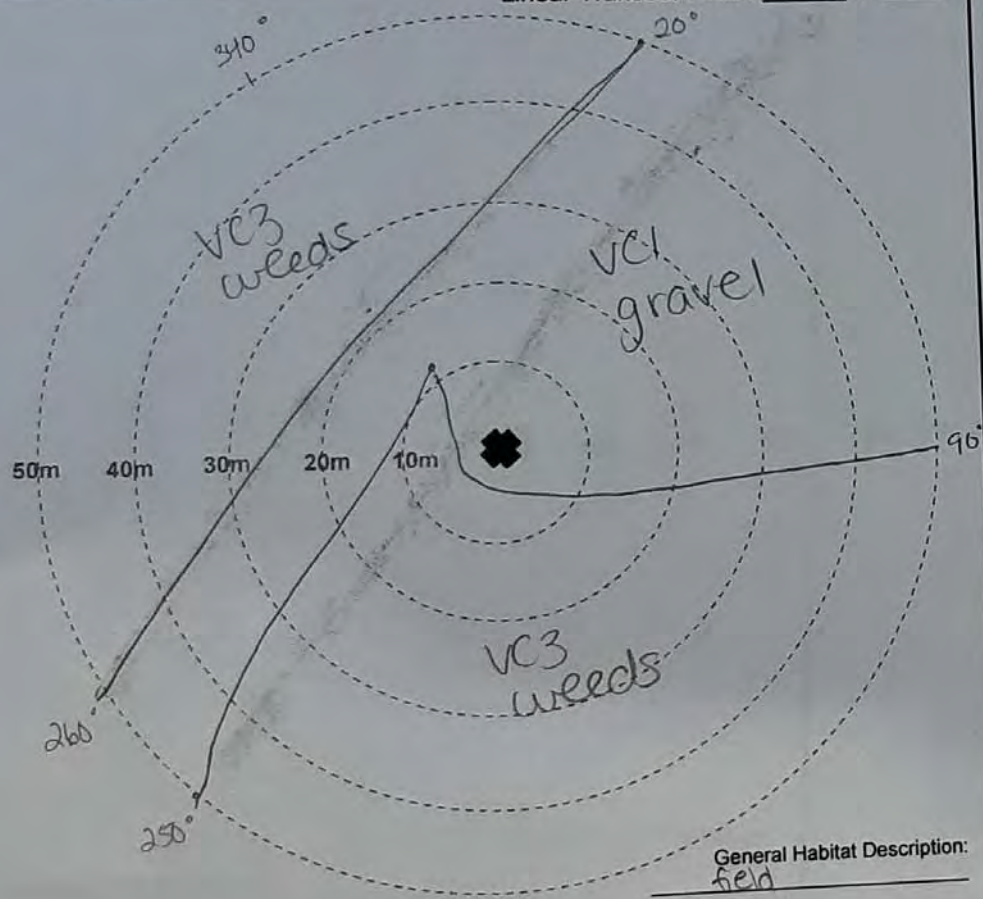
Project Name: Amherst Island WP Project #: 221B Turbine #: 519

Photo Numbers (from turbine base)
 Facing North: 221241
 Facing East: 221242
 Facing South: 221243
 Facing West: 221244
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 22/12/19
 Observer: J4B
 Monthly/Seasonal
 Linear Transect Width: 5 m

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121A Turbine #: 520 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 2795
 Facing East: 2796
 Facing South: 2797
 Facing West: 2798
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 11/02/19
 Observer: BAH
 Monthly/Seasonal Linear Transect Width: 5 m

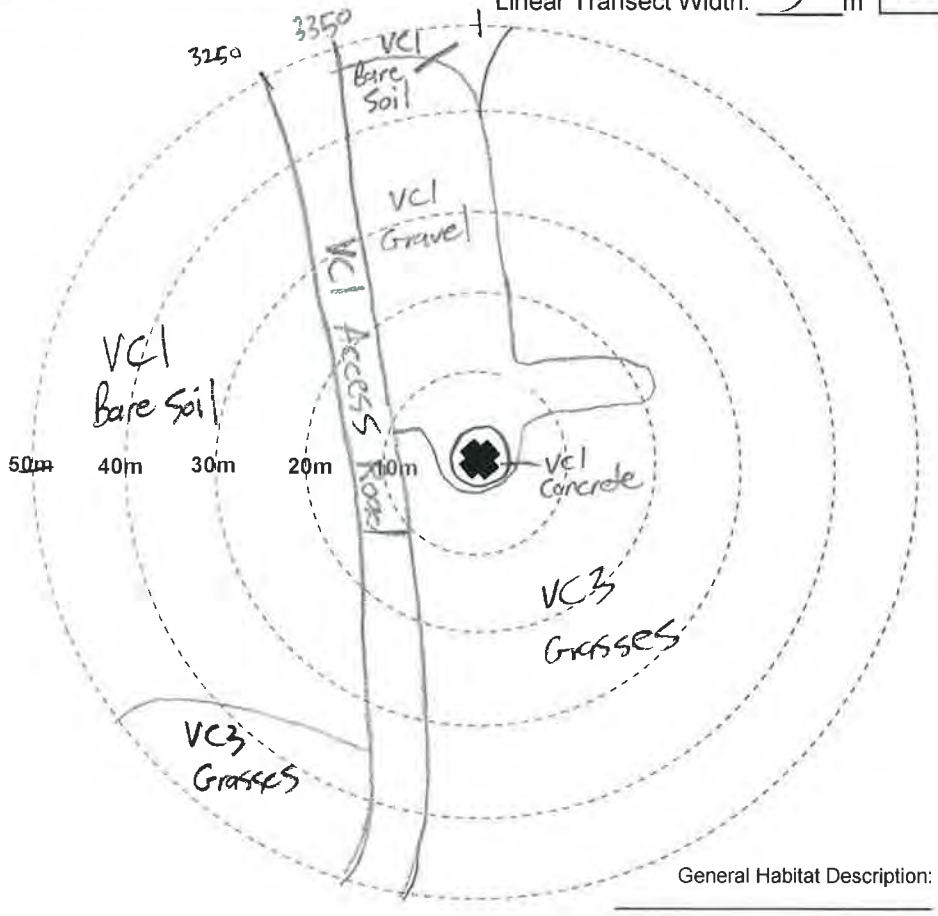
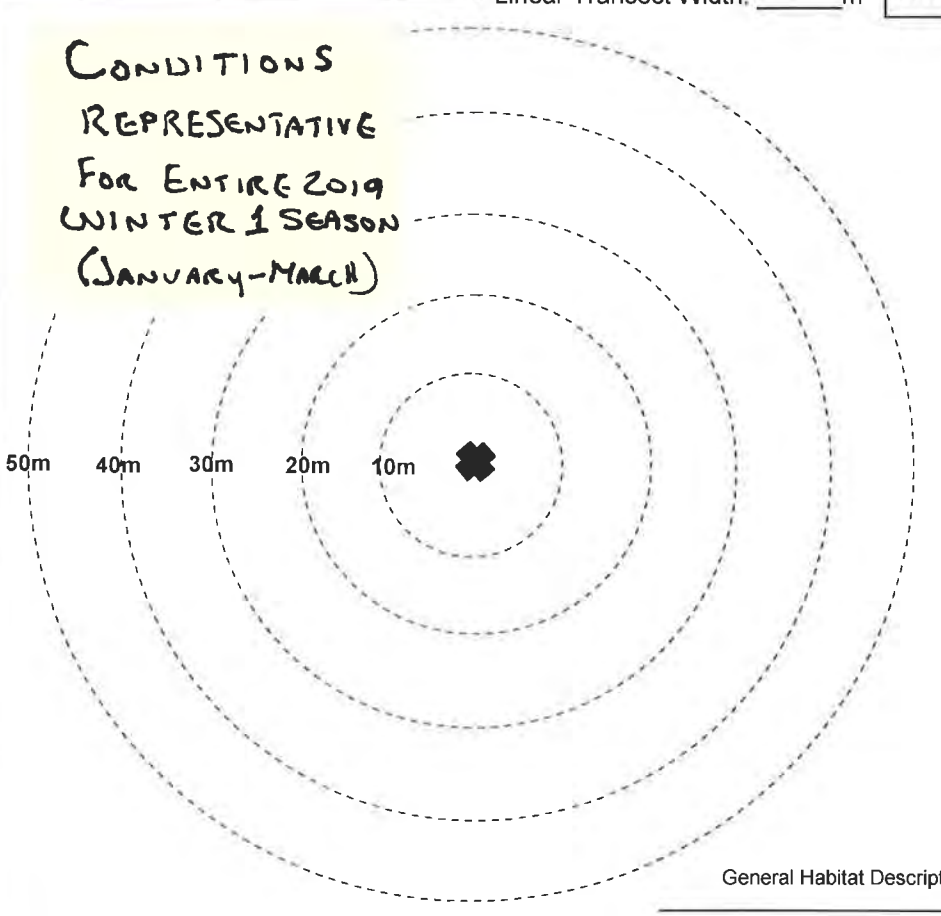


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___
 Observer: _____
 Monthly/Seasonal Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 21218 Turbine #: S20 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 221202
 Facing East: 221203
 Facing South: 221204
 Facing West: 221205
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 22/12/19

Observer: JYB

Monthly/Seasonal
 Linear Transect Width: 5 m

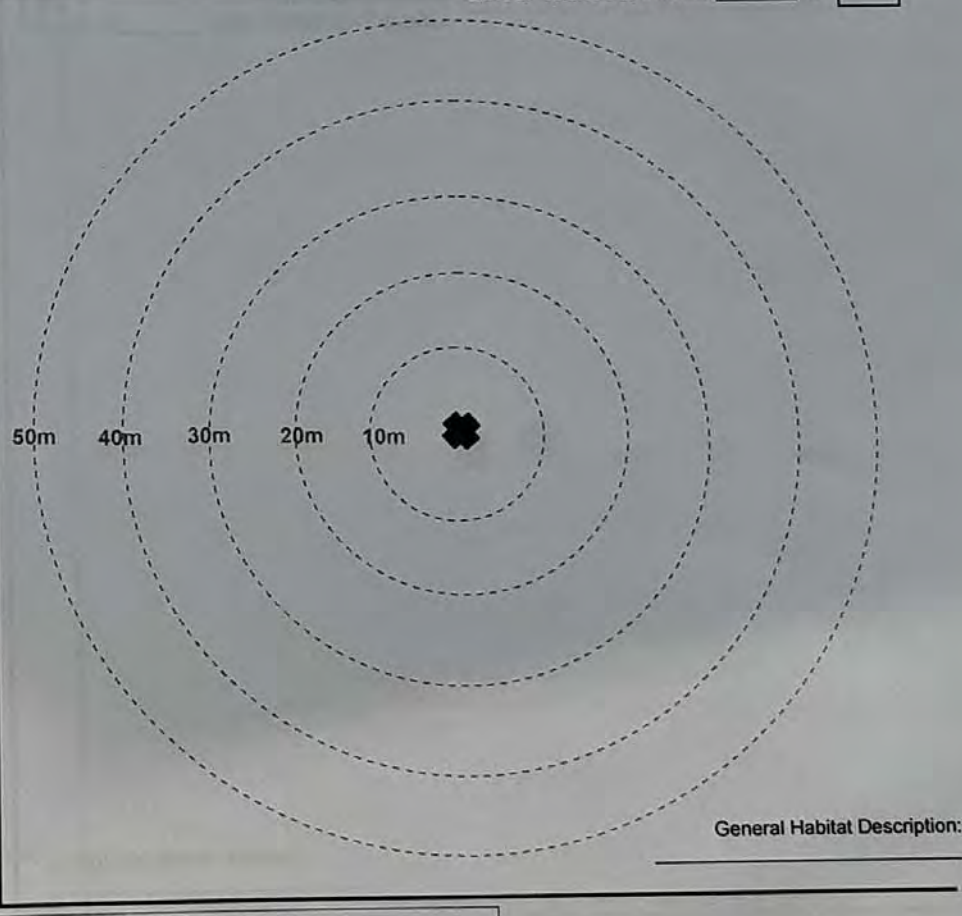
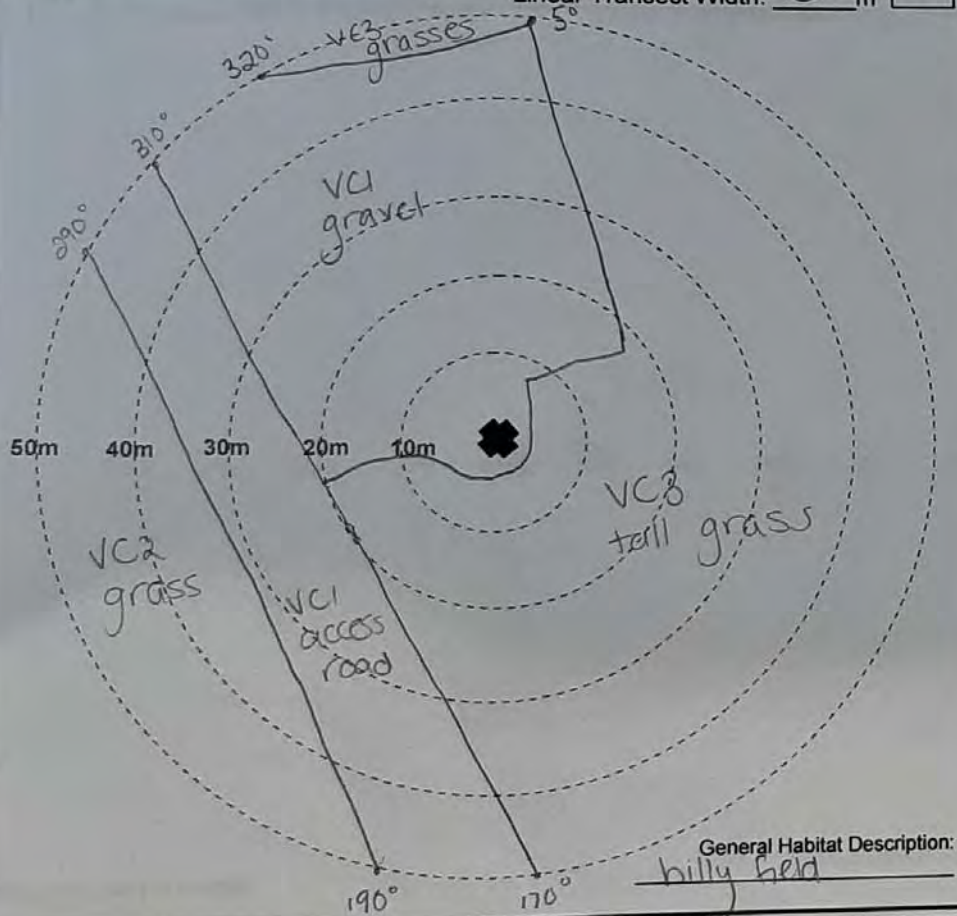


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___

Observer: _____

Monthly/Seasonal
 Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amberst Island WP Project #: 2121A Turbine #: 521 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 1807
 Facing East: 1809
 Facing South: 1804
 Facing West: 1810
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 14/02/19
 Observer: BAH
 Monthly/Seasonal Linear Transect Width: 5 m

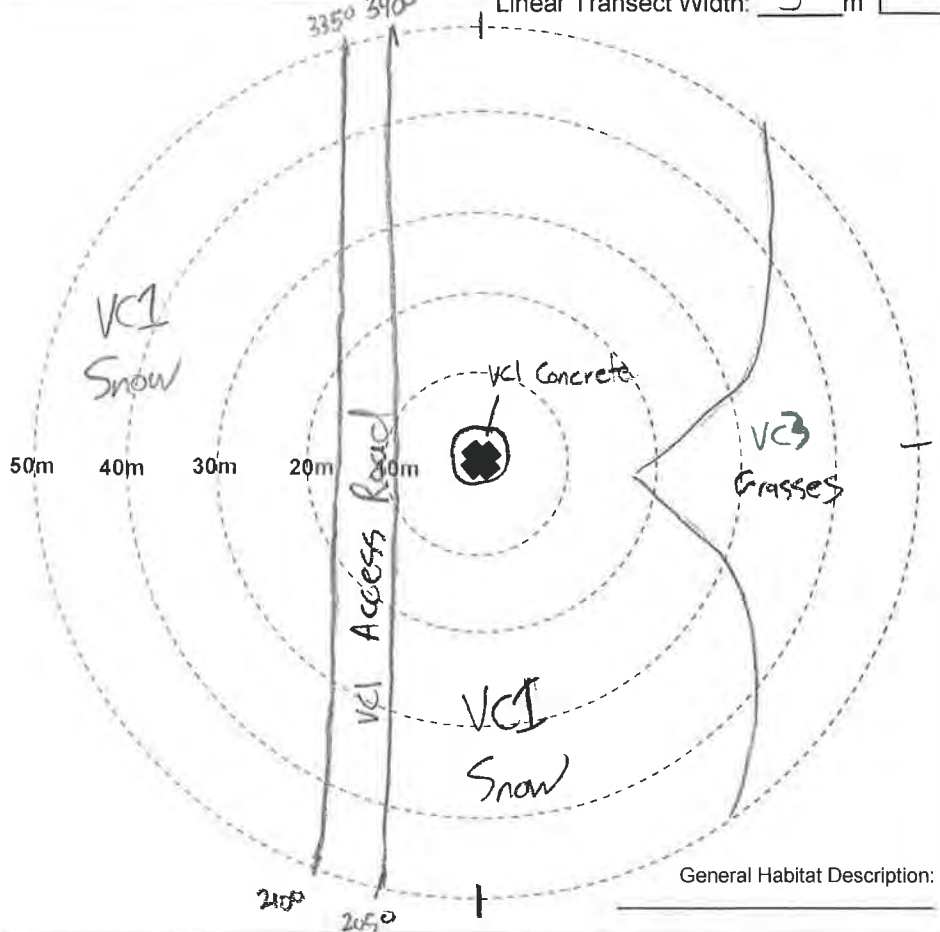
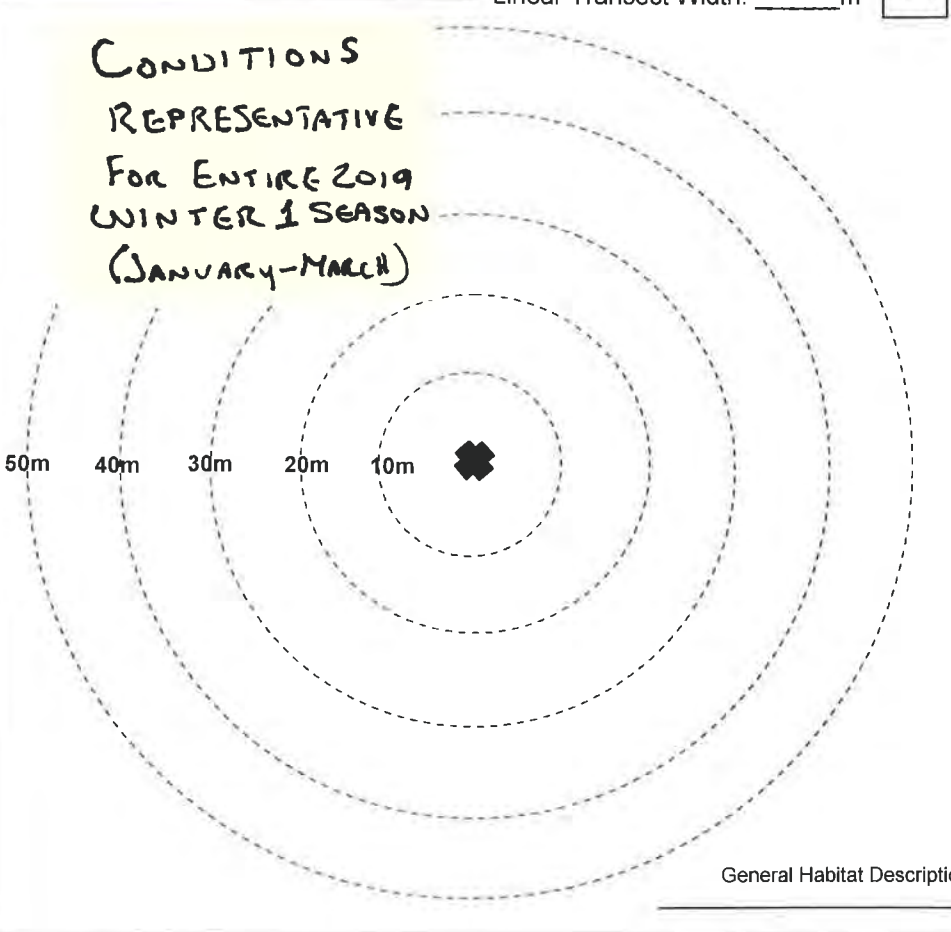


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___
 Observer: _____
 Monthly/Seasonal Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121B Turbine #: 521

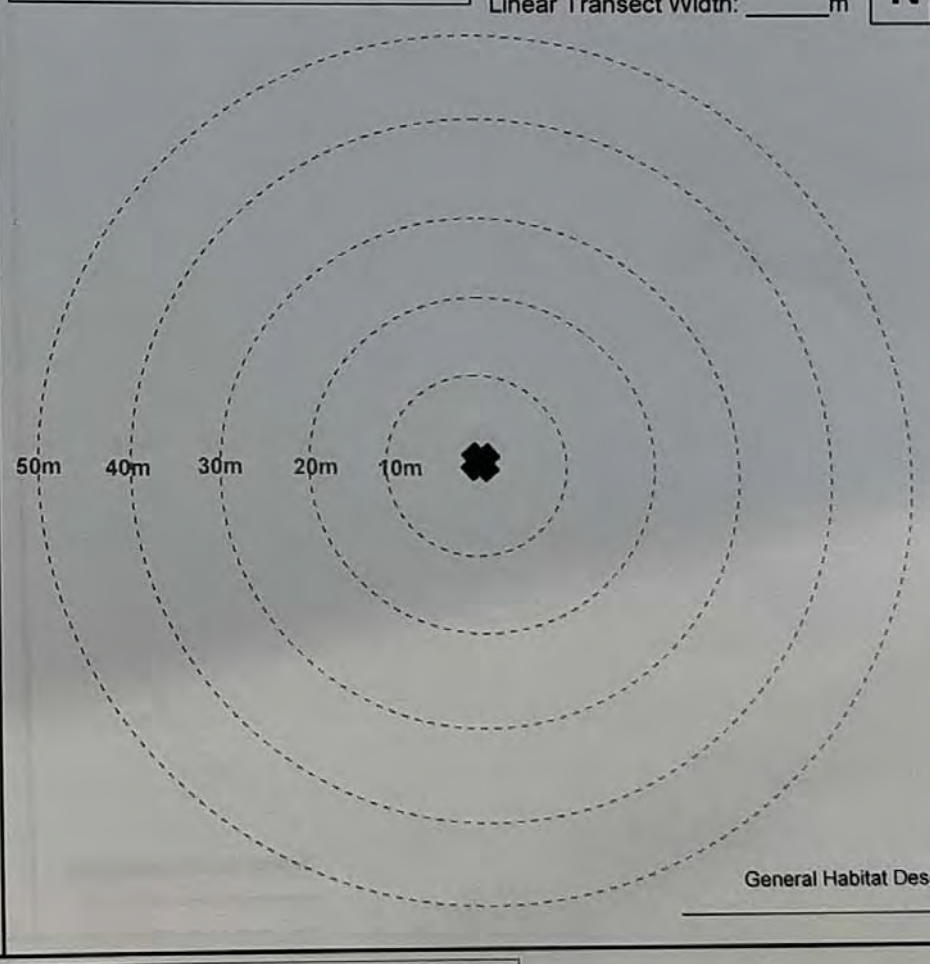
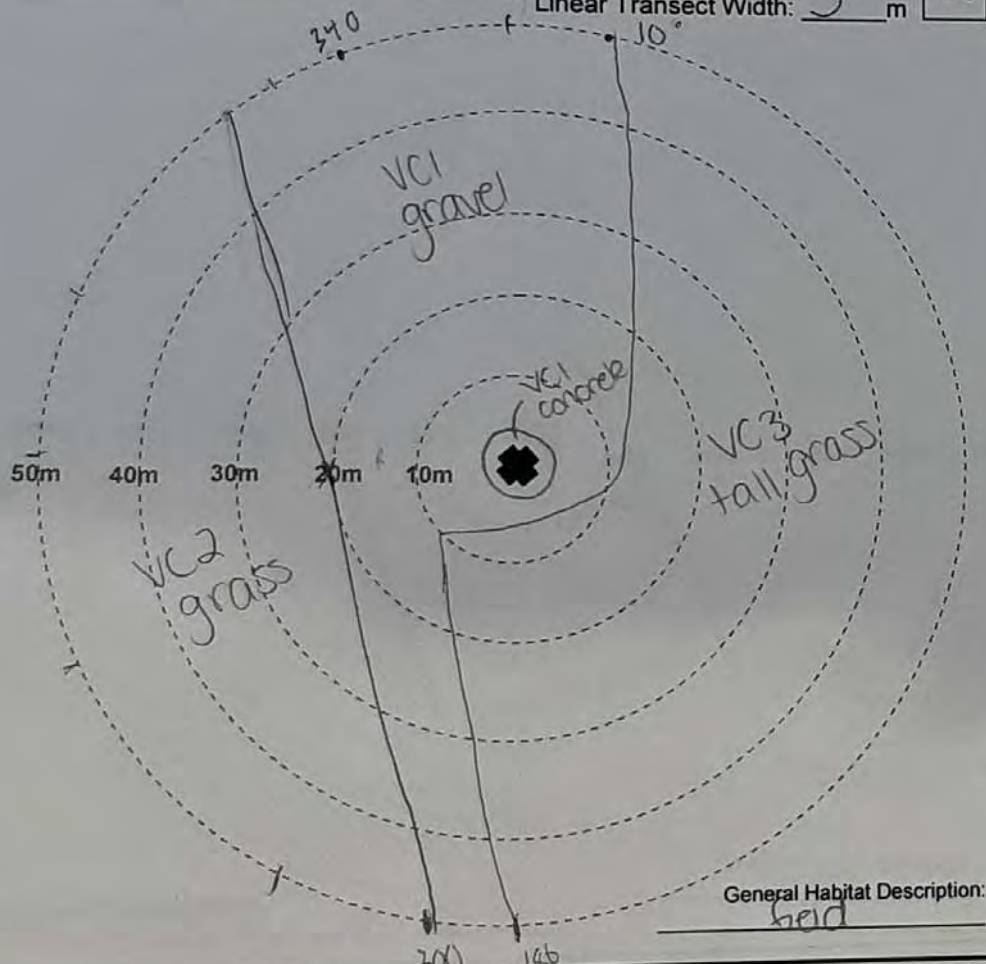
Photo Numbers (from turbine base)
 Facing North: 231245
 Facing East: 231246
 Facing South: 231247
 Facing West: 231248
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 23/12/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 5 m



Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 221A Turbine #: S22 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

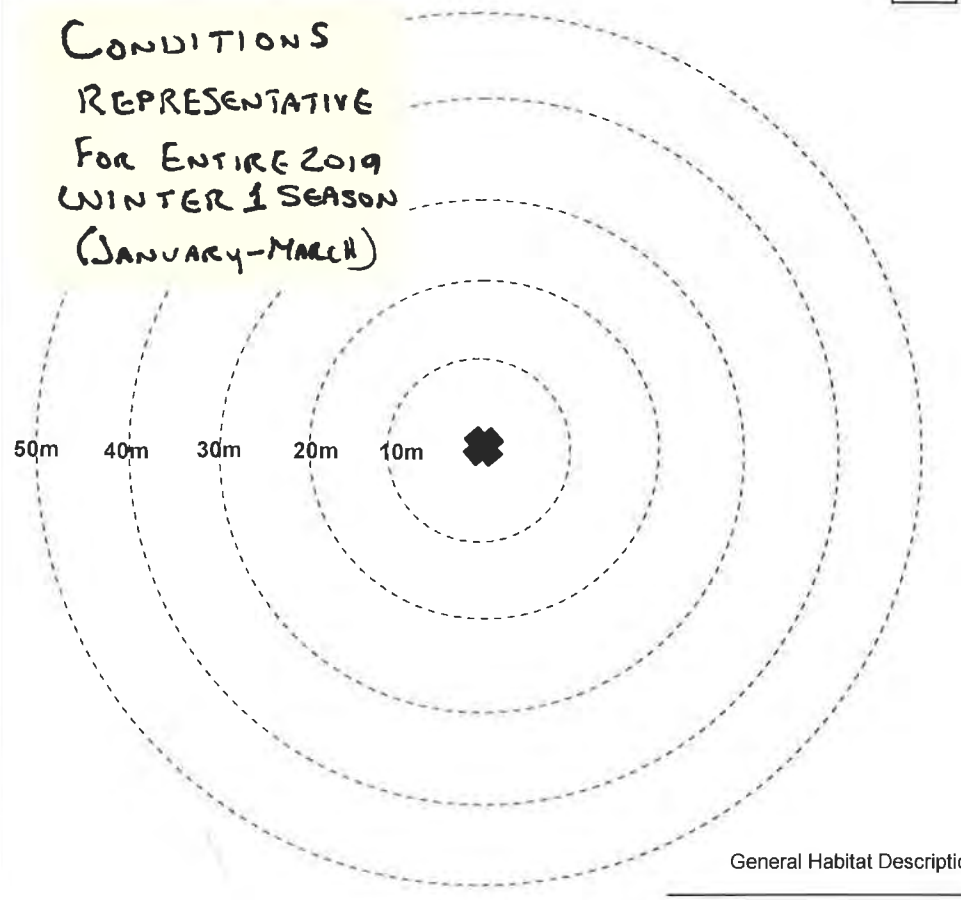
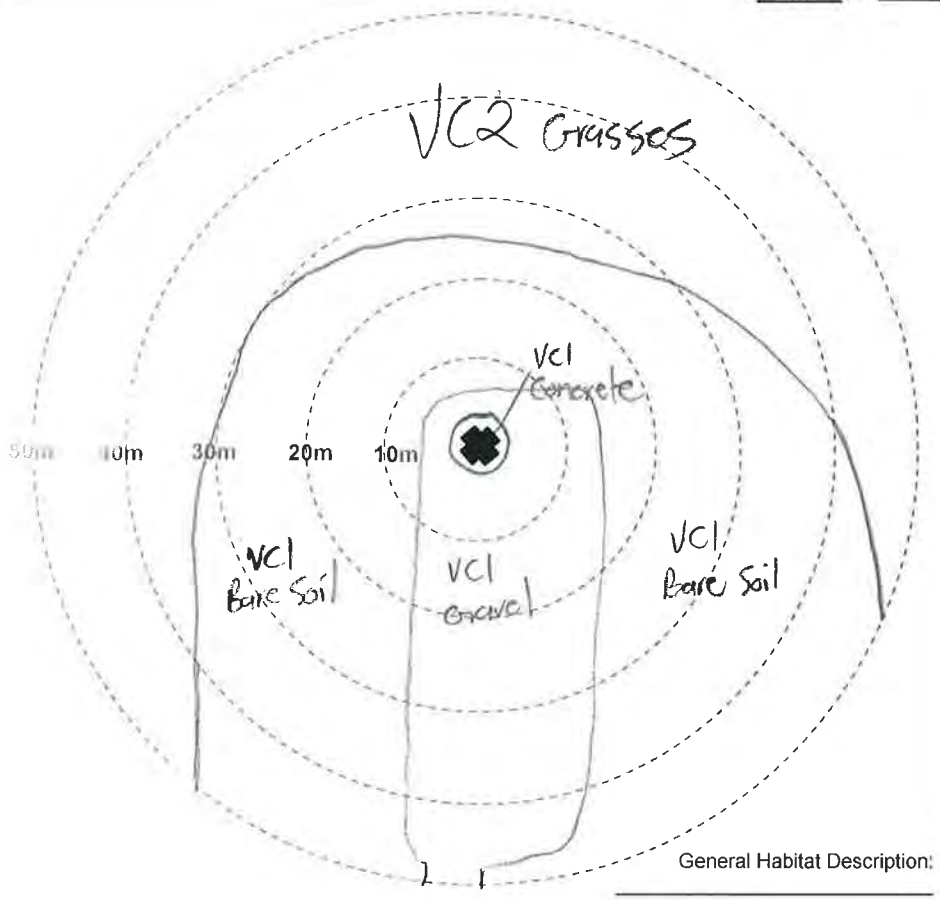
Photo Numbers (from turbine base)
 Facing North: 2787
 Facing East: 2788
 Facing South: 2789
 Facing West: 2790
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 11/02/19
 Observer: BAH
 Monthly/Seasonal Linear Transect Width: 5 m



Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___
 Observer: _____
 Monthly/Seasonal Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 21218 Turbine #: S22 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 05/04/19
 Observer: Shelby H.
 Monthly/Seasonal
 Linear Transect Width: 5 m

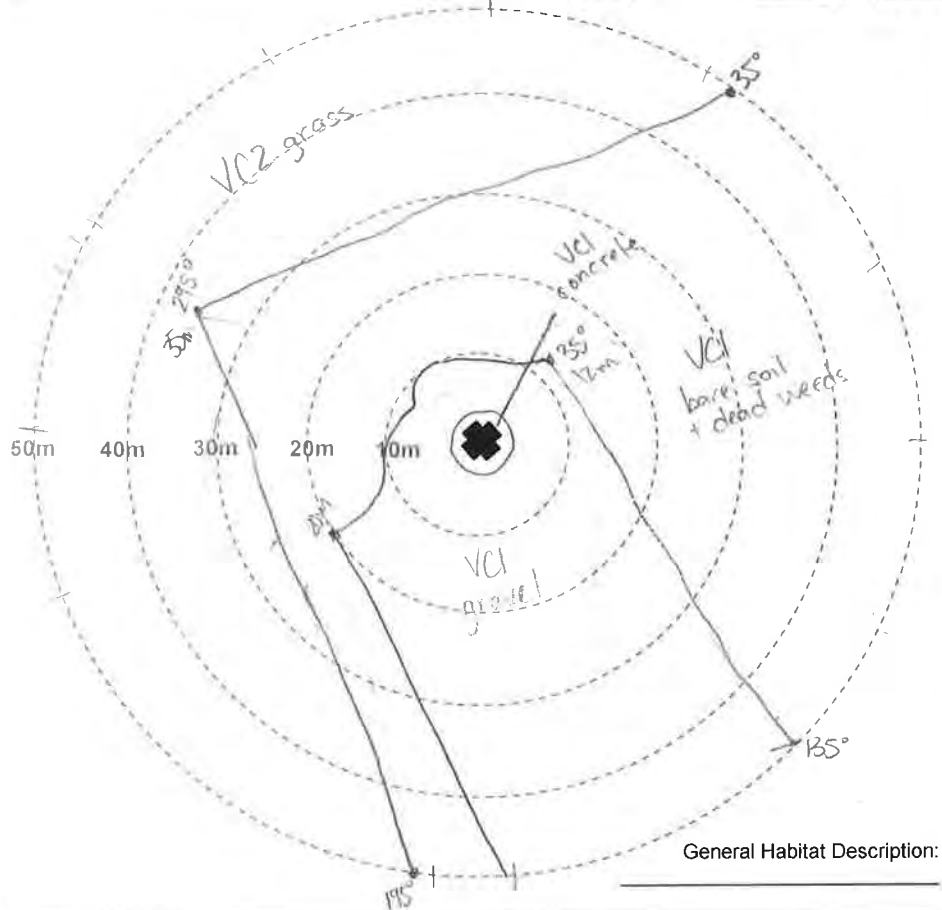
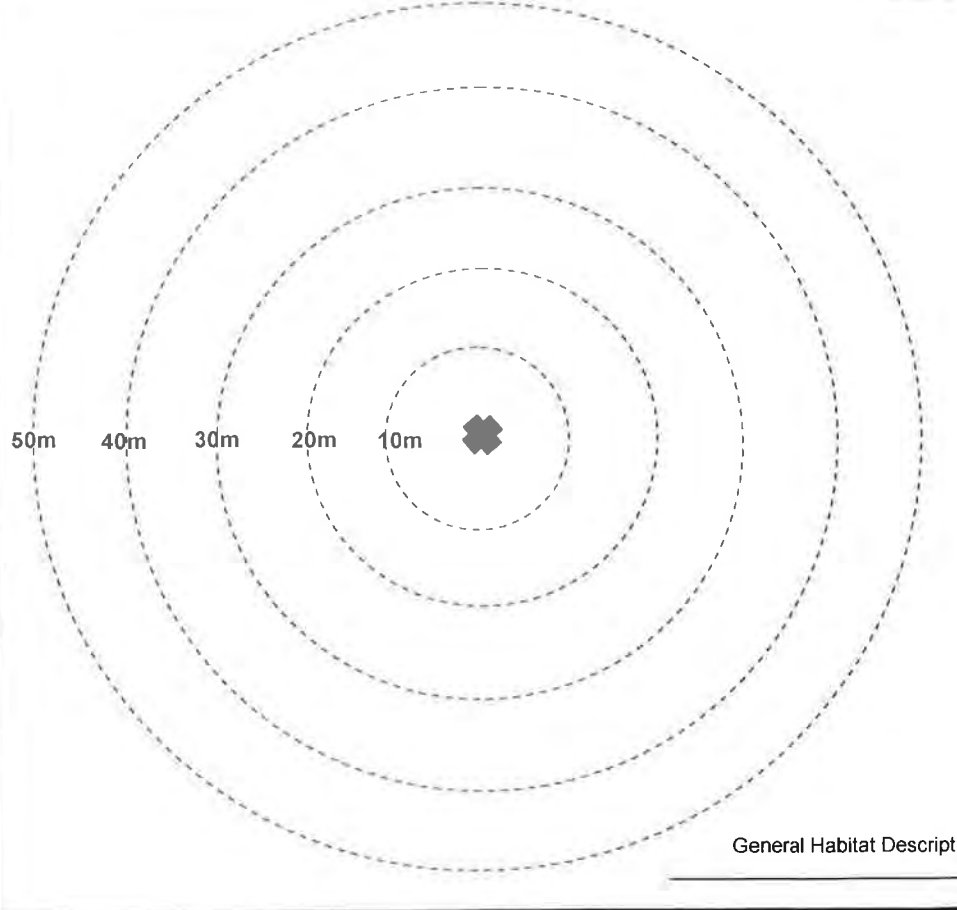


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

SE -1 NW +2

Project Name: Amherst Island W.P. Project #: 21212 Turbine #: S22 Degree of Slope 10.5 degrees Slope Orientation NW (e.g. SSW)

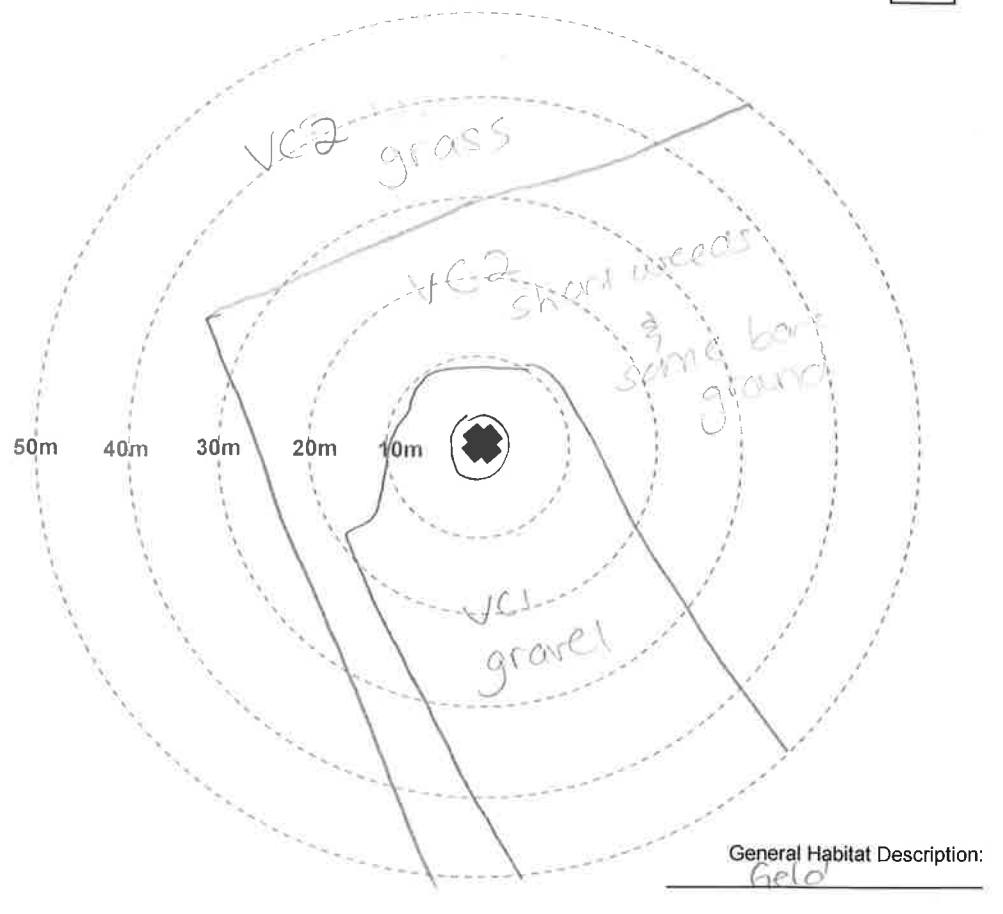
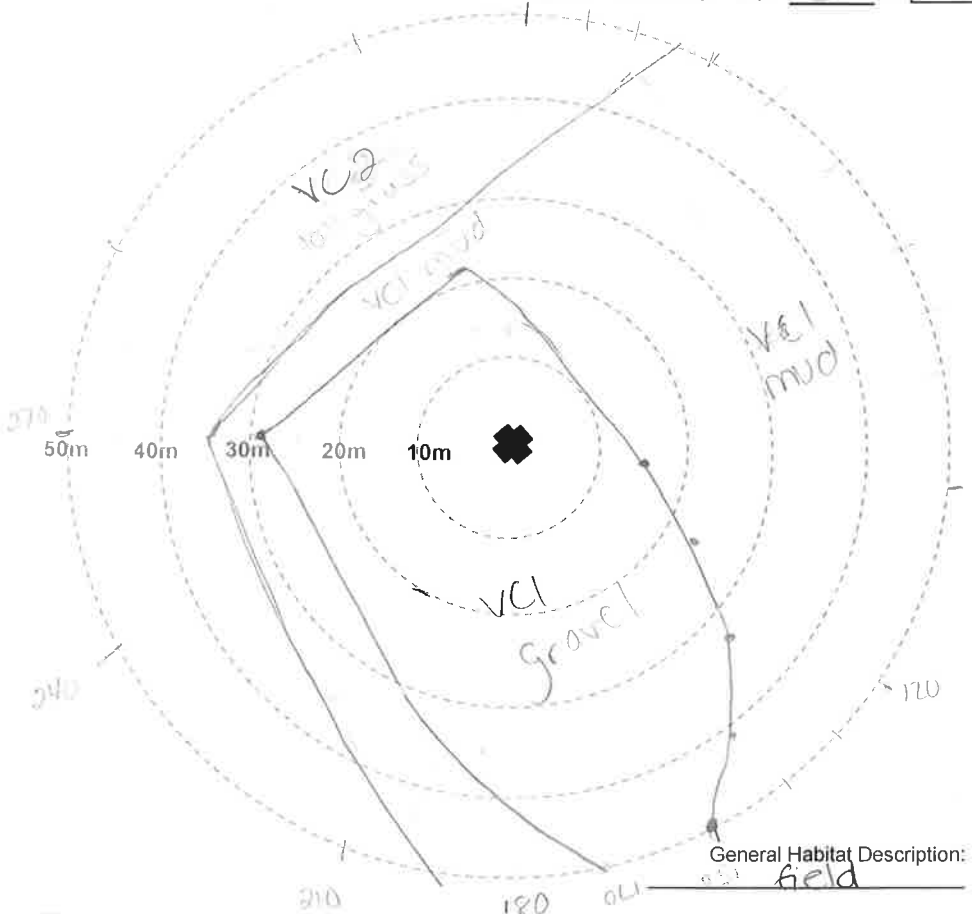
Photo Numbers (from turbine base)
 Facing North: 21160
 Facing East: 21163
 Facing South: 21169
 Facing West: 21165
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 07/05/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 5 m



Photo Numbers (from turbine base)
 Facing North: 21162
 Facing East: 21163
 Facing South: 21169
 Facing West: 21165
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 07/06/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 5 m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WIP Project #: 21312 Turbine #: S22

Photo Numbers (from turbine base)
 Facing North: 2587
 Facing East: 2529
 Facing South: 2570
 Facing West: 2511
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 09/07/19
 Observer: JAB
 Monthly/Seasonal
 Linear Transect Width: 5 m

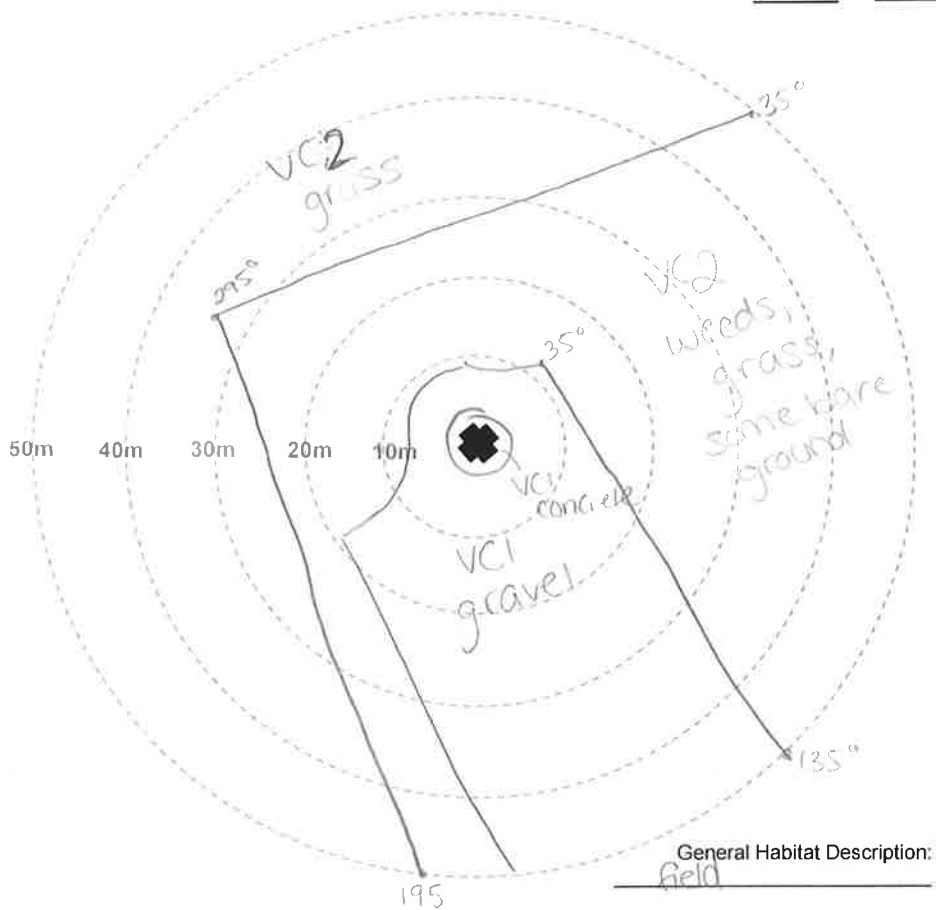
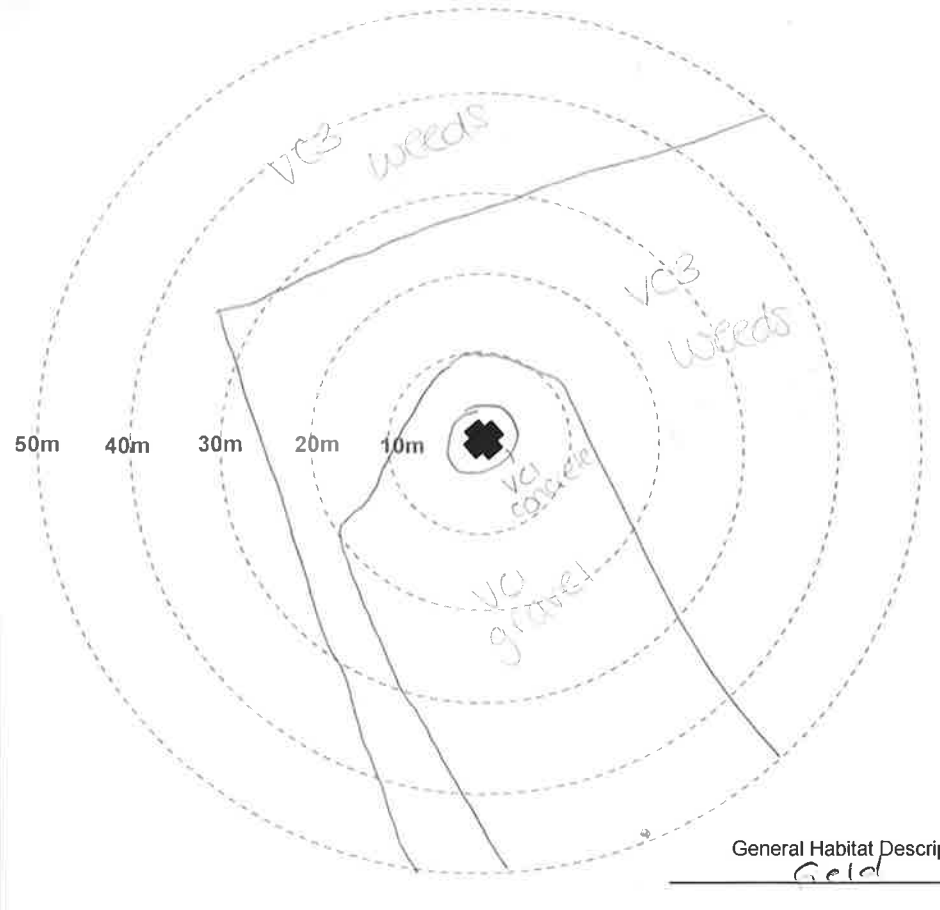


Photo Numbers (from turbine base)
 Facing North: 2776
 Facing East: 2721
 Facing South: 2772
 Facing West: 2722
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 09/08/19
 Observer: JAB
 Monthly/Seasonal
 Linear Transect Width: 5 m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WIP Project #: 2121B Turbine #: S22

Photo Numbers (from turbine base)
 Facing North: 100908
 Facing East: 100909
 Facing South: 100910
 Facing West: 100911
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 10/09/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 5 m **N**

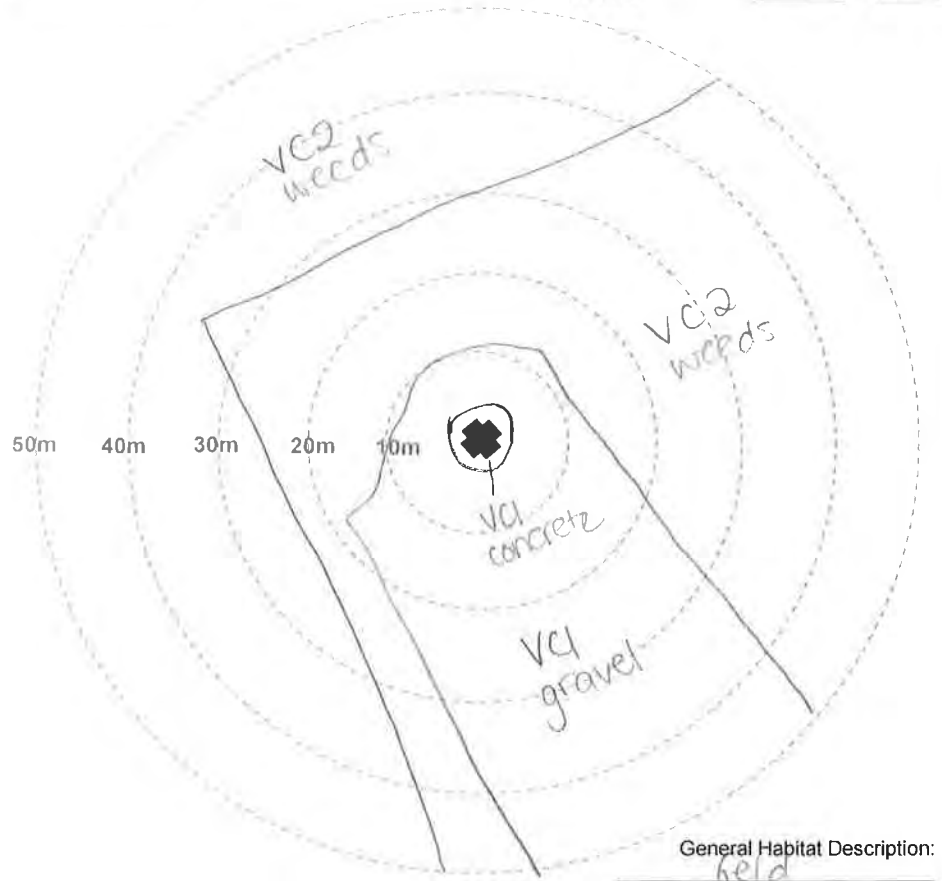
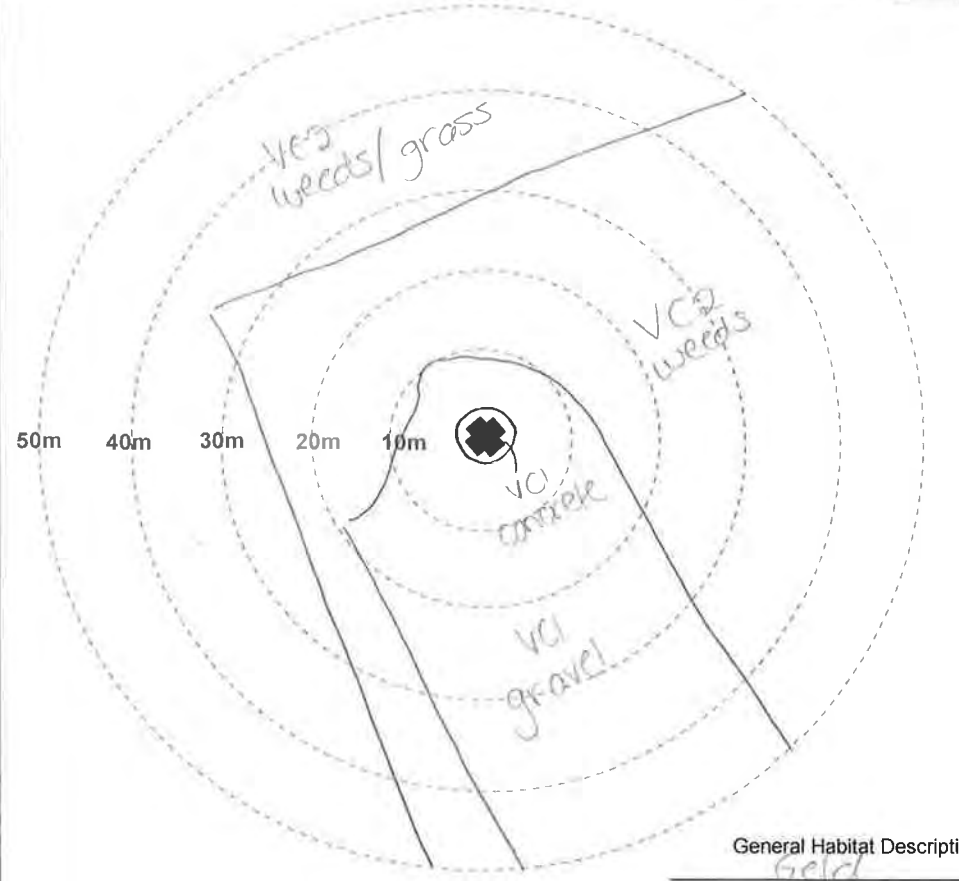


Photo Numbers (from turbine base)
 Facing North: 102407
 Facing East: 102408
 Facing South: 102409
 Facing West: 102410
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 24/10/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 5 m **N**



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

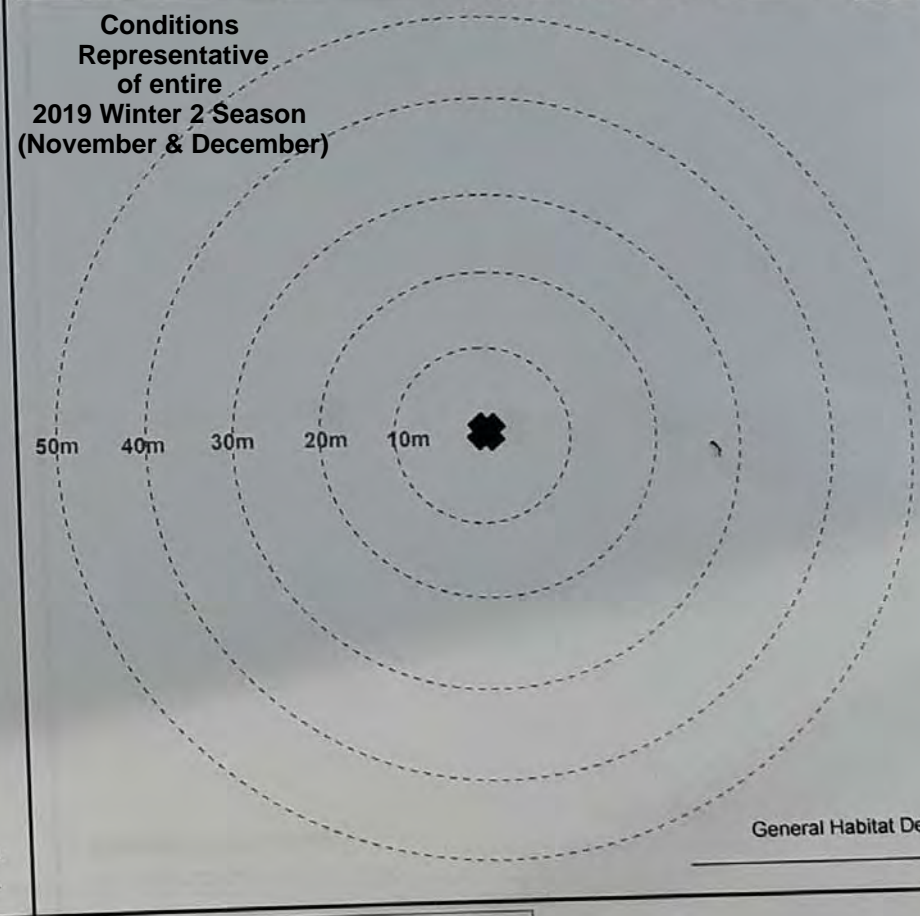
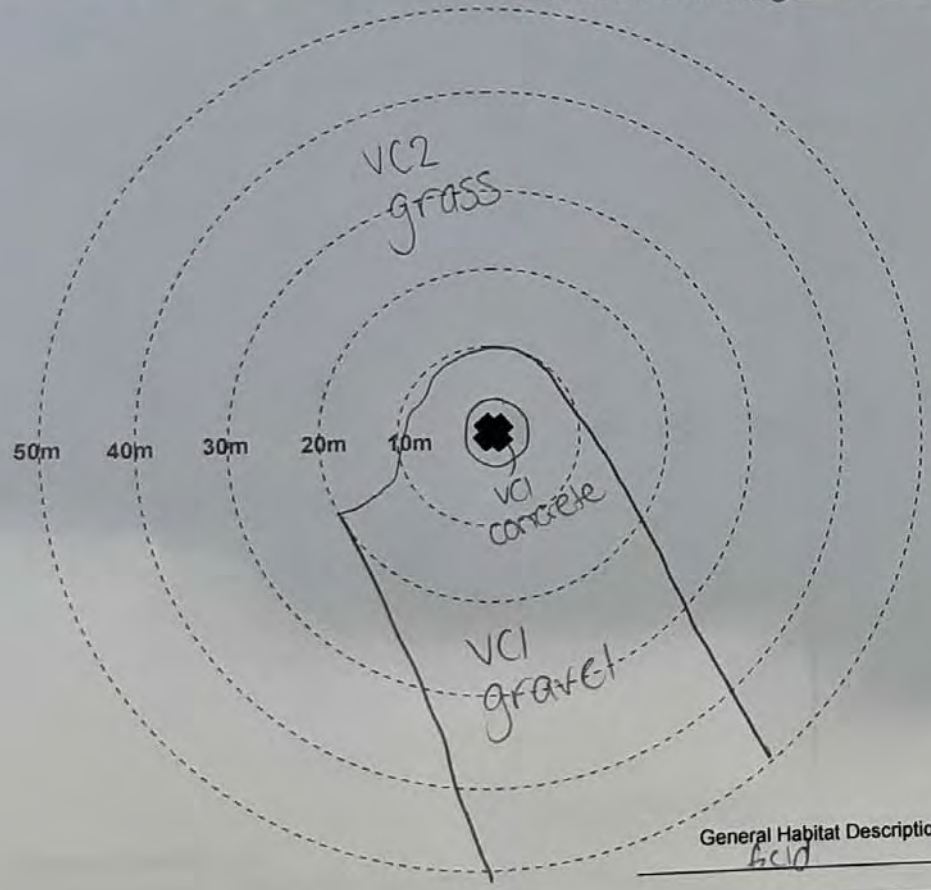
Project Name: Amherst Island WP Project #: 2121B Turbine #: S22

Photo Numbers (from turbine base)
 Facing North: 221210
 Facing East: 221211
 Facing South: 221212
 Facing West: 221213
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 22/12/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 5 m

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amberst Island WP Project #: 2121A Turbine #: 526 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 1410
 Facing East: 1411
 Facing South: 1412
 Facing West: 1413
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 15/02/19
 Observer: BAH
 Monthly/Seasonal Linear Transect Width: 5 m

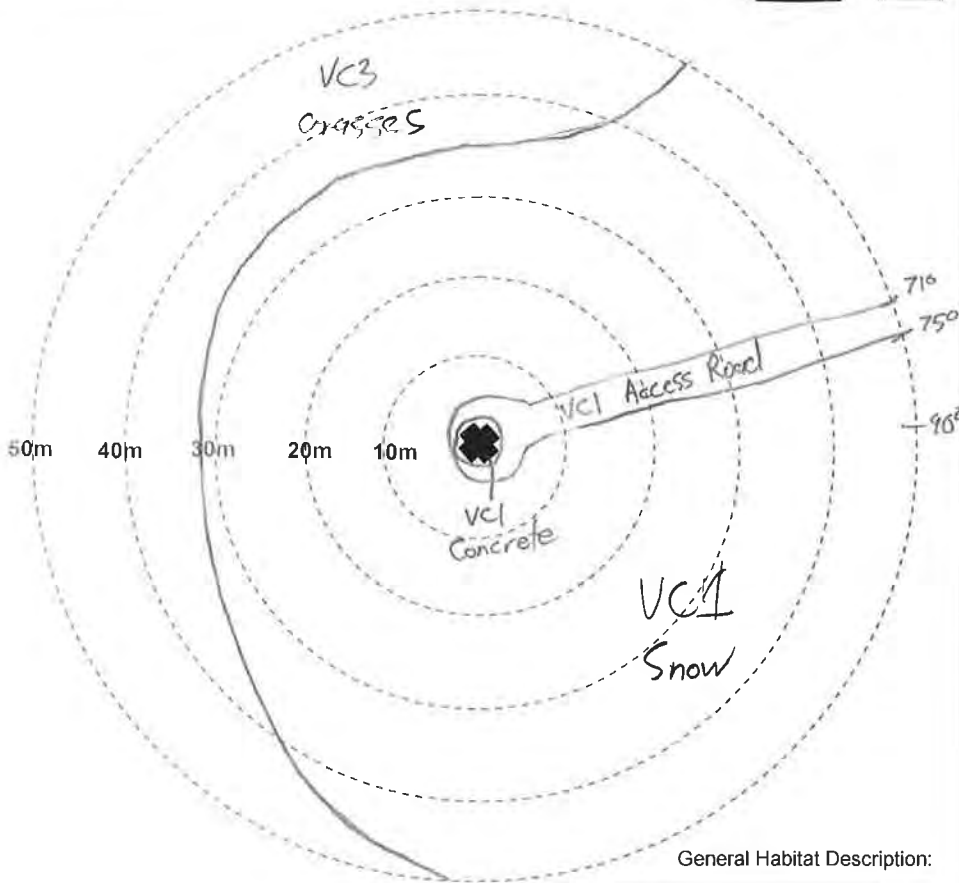
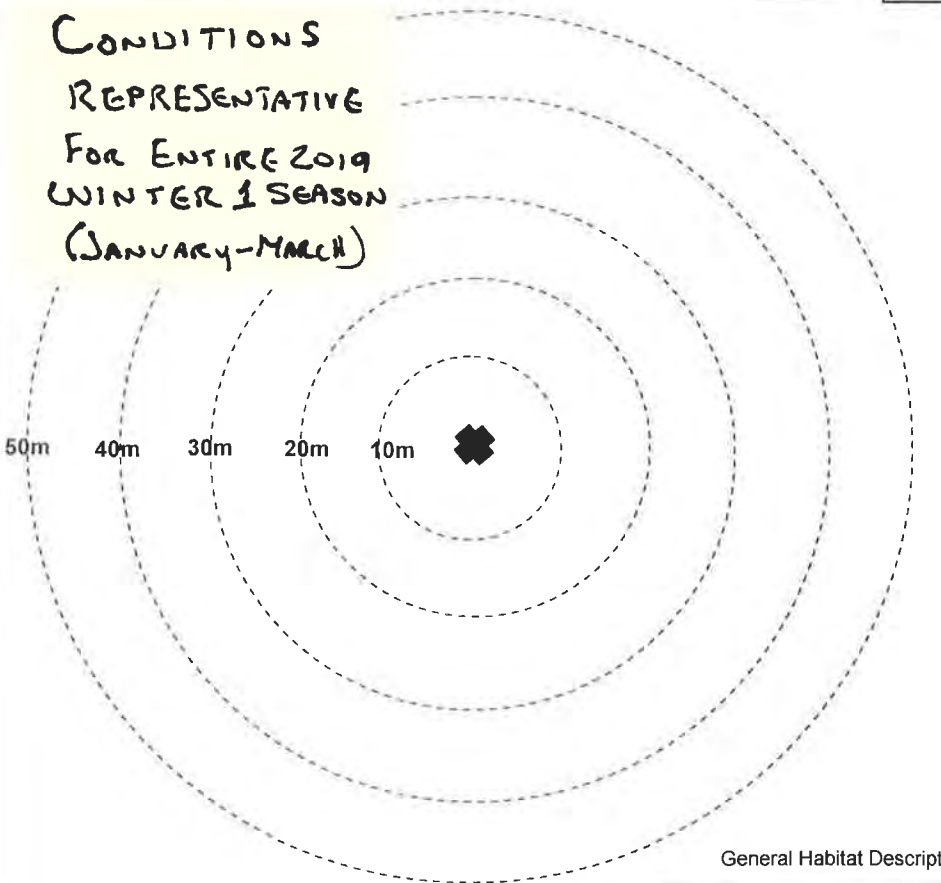


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___
 Observer: _____
 Monthly/Seasonal Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island Wp

Project #: 21218

Turbine #: 526

Degree of Slope _____ degrees

Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)

Facing North: 231205

Facing East: 231206

Facing South: 231207

Facing West: 231208

(sketch habitat and visibility classes)

Date (DD/MM/YY): 23/12/19

Observer: J4B

Monthly/Seasonal
Linear Transect Width: 5 m

N

Photo Numbers (from turbine base)

Facing North: _____

Facing East: _____

Facing South: _____

Facing West: _____

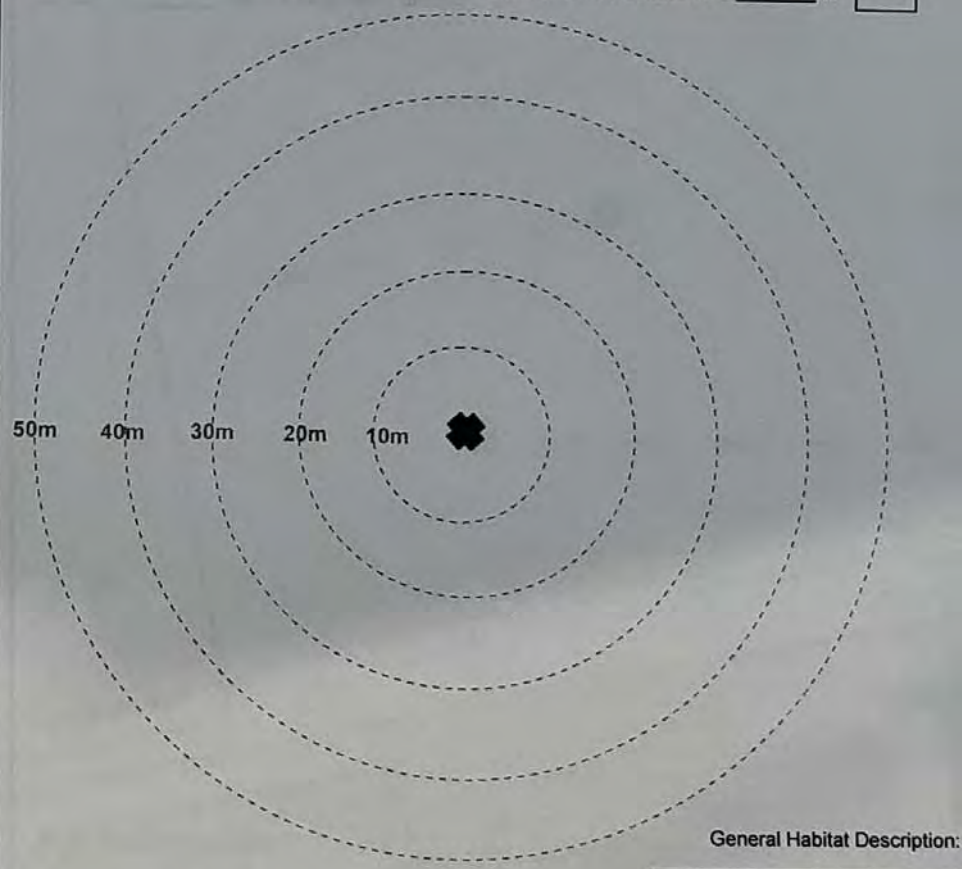
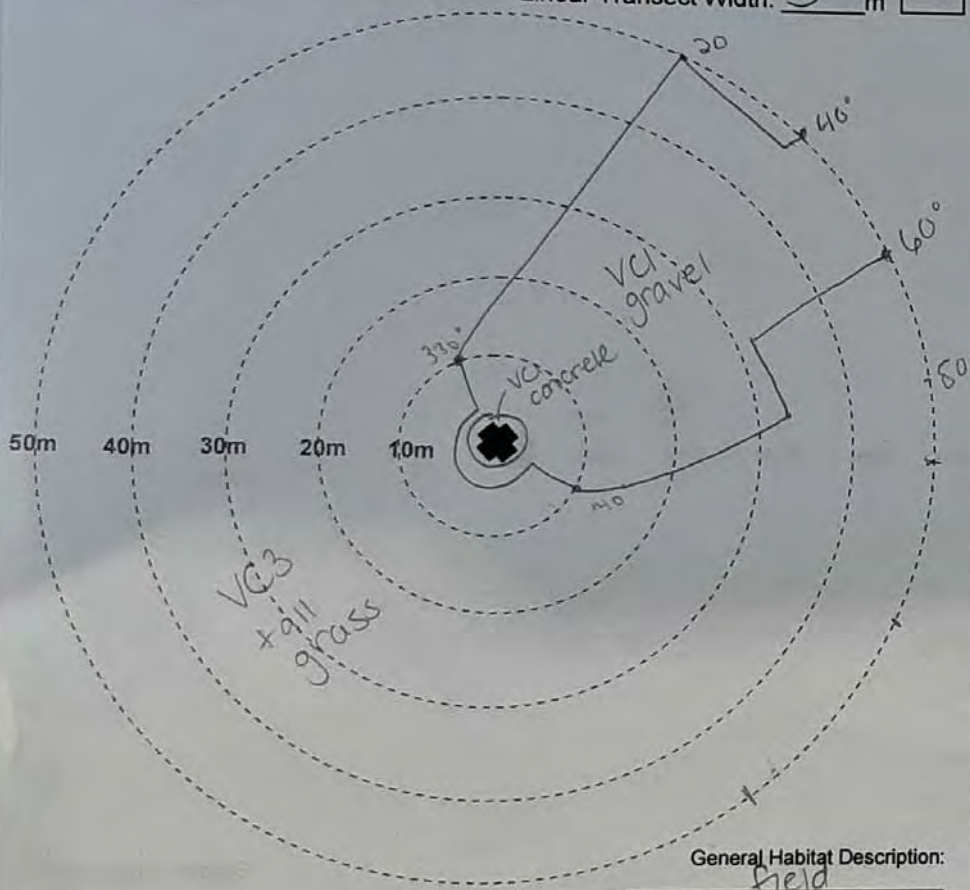
(sketch habitat and visibility classes)

Date (DD/MM/YY): ____/____/____

Observer: _____

Monthly/Seasonal
Linear Transect Width: _____ m

N



VISIBILITY CLASSES

Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2124 Turbine #: 527 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

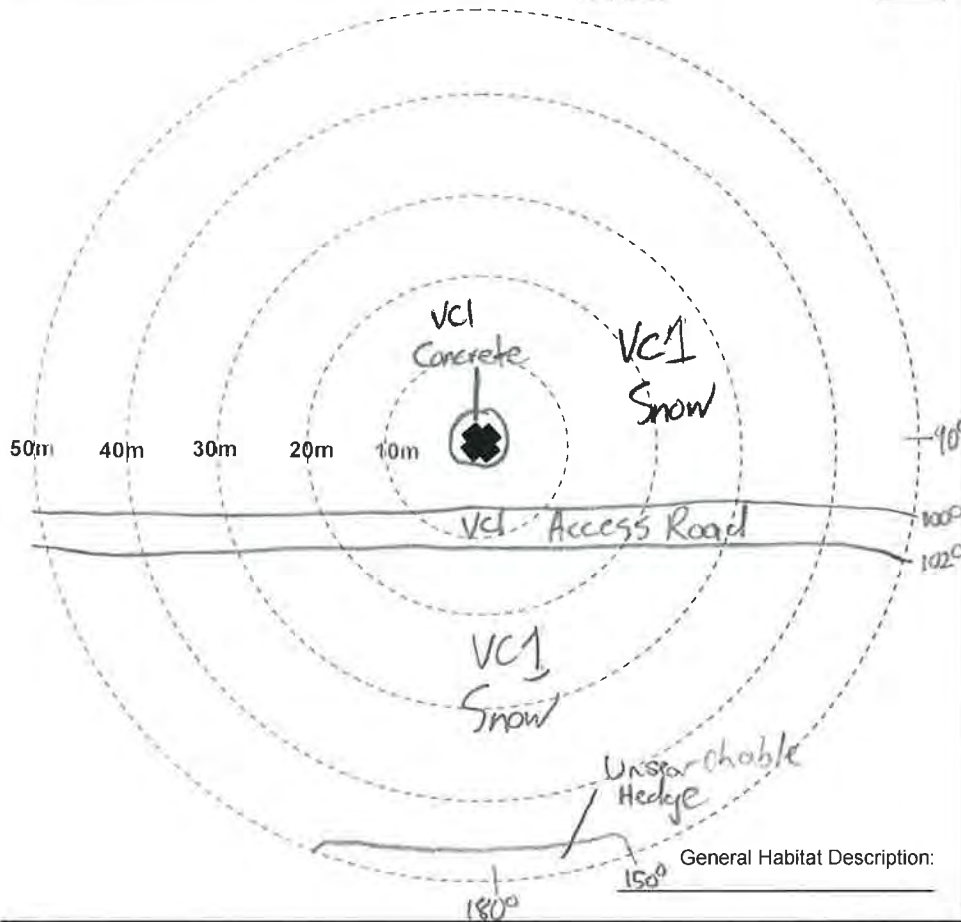
Photo Numbers (from turbine base)
 Facing North: 2401
 Facing East: 2402
 Facing South: 2403
 Facing West: 2404
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 14/02/19
 Observer: BAH
 Monthly/Seasonal Linear Transect Width: 5 m

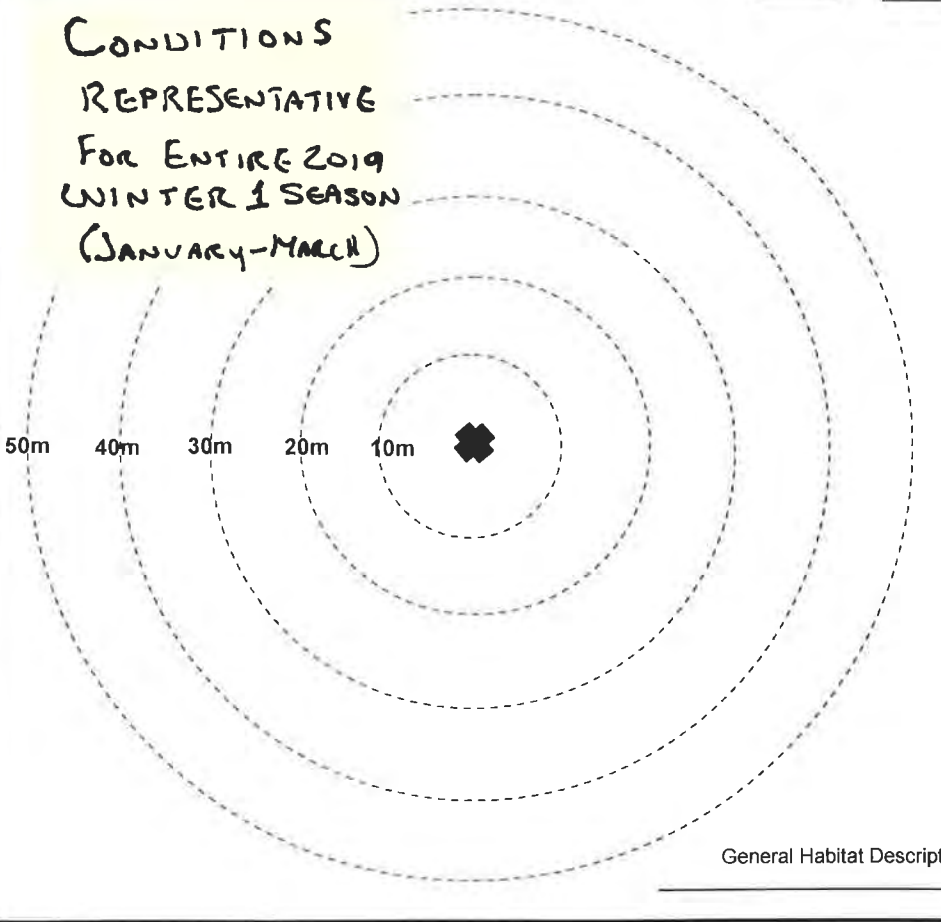


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal Linear Transect Width: _____ m



General Habitat Description: _____



CONDITIONS
 REPRESENTATIVE
 FOR ENTIRE 2019
 WINTER 1 SEASON
 (JANUARY-MARCH)

General Habitat Description: _____

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 21218 Turbine #: 527

Photo Numbers (from turbine base)
 Facing North: 2312 37
 Facing East: 2312 38
 Facing South: 2312 39
 Facing West: 2312 40
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 23/12/19

Observer: JYB

Monthly/Seasonal
 Linear Transect Width: 5 m

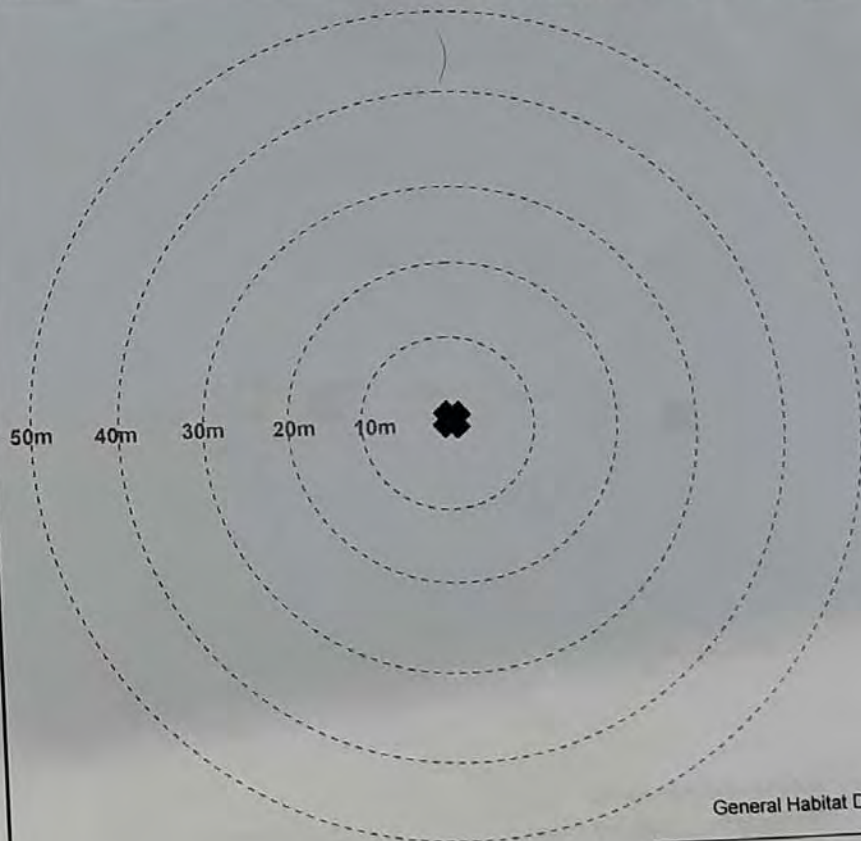
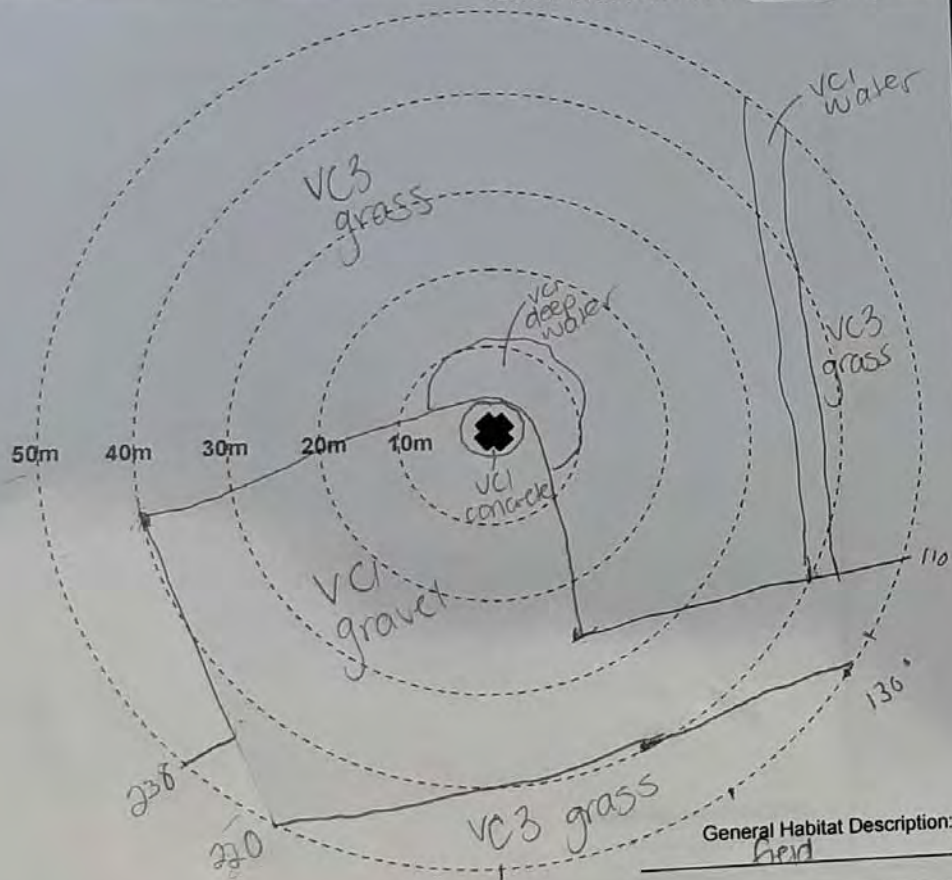


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /

Observer: _____

Monthly/Seasonal
 Linear Transect Width: _____ m



VISIBILITY CLASSES

Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121A Turbine #: 528 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

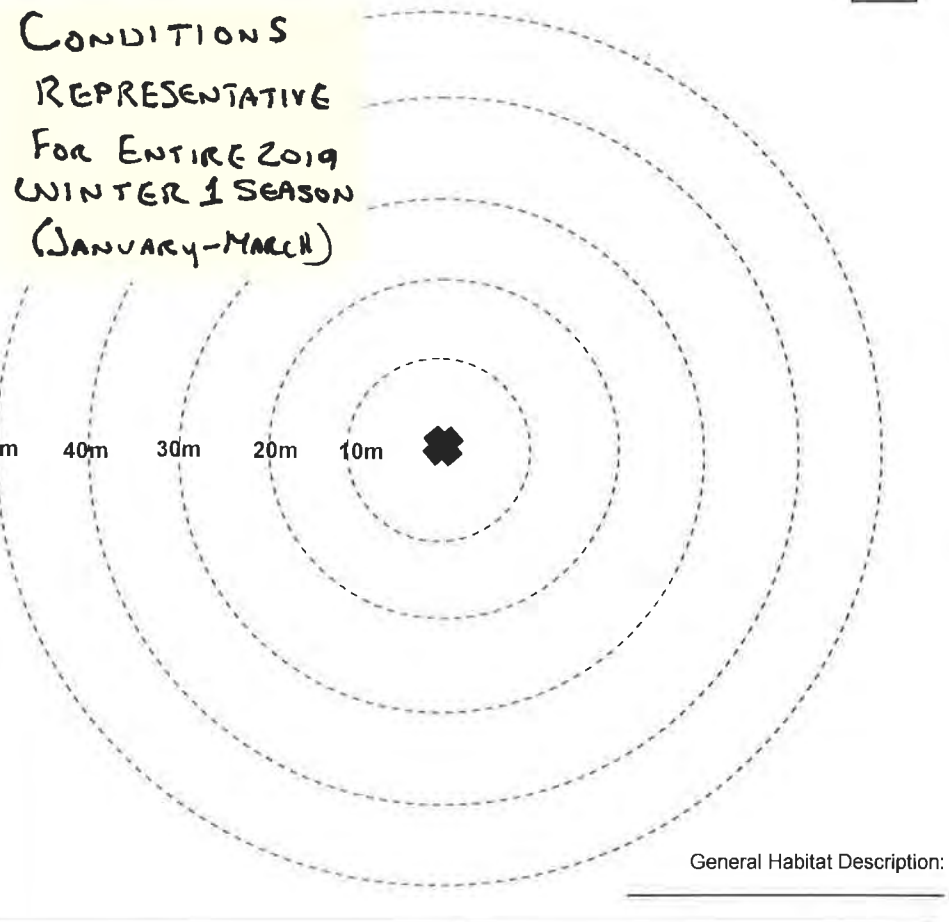
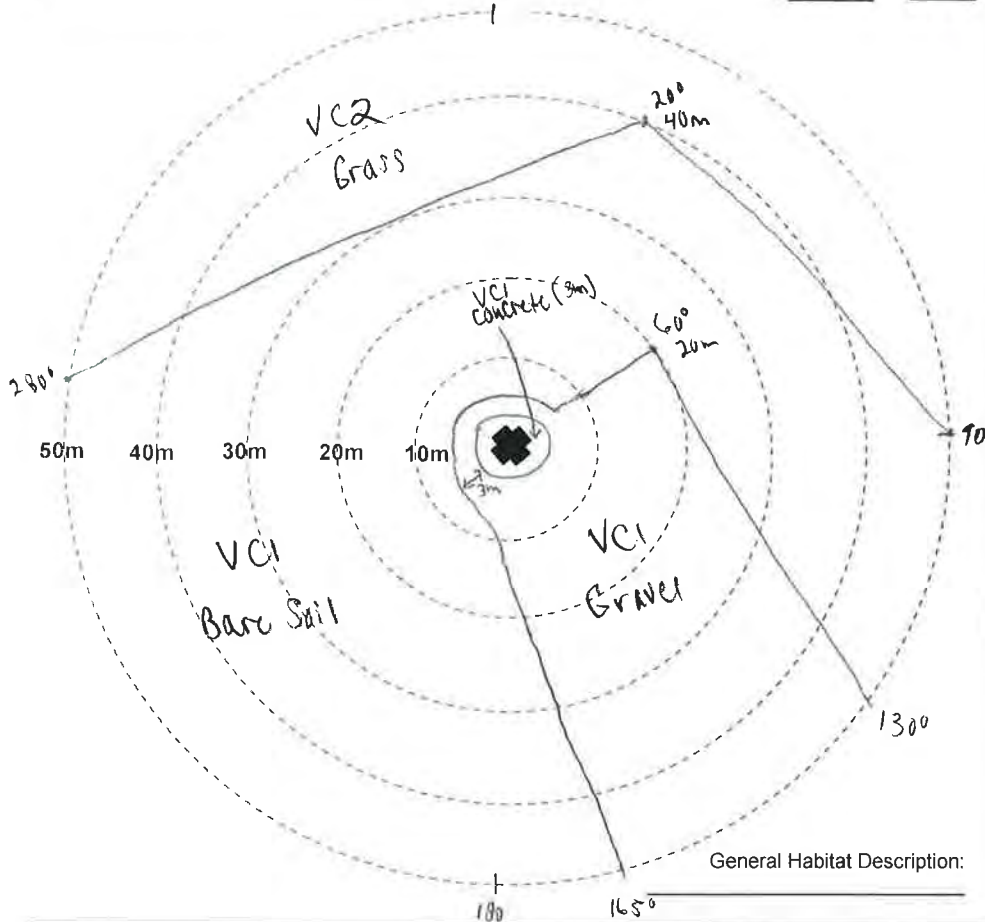
Photo Numbers (from turbine base)
 Facing North: 3211
 Facing East: 3212
 Facing South: 3213
 Facing West: 3214
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 06/02/19
 Observer: KMH
 Monthly/Seasonal
 Linear Transect Width: 5 m



Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121B Turbine #: S28 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

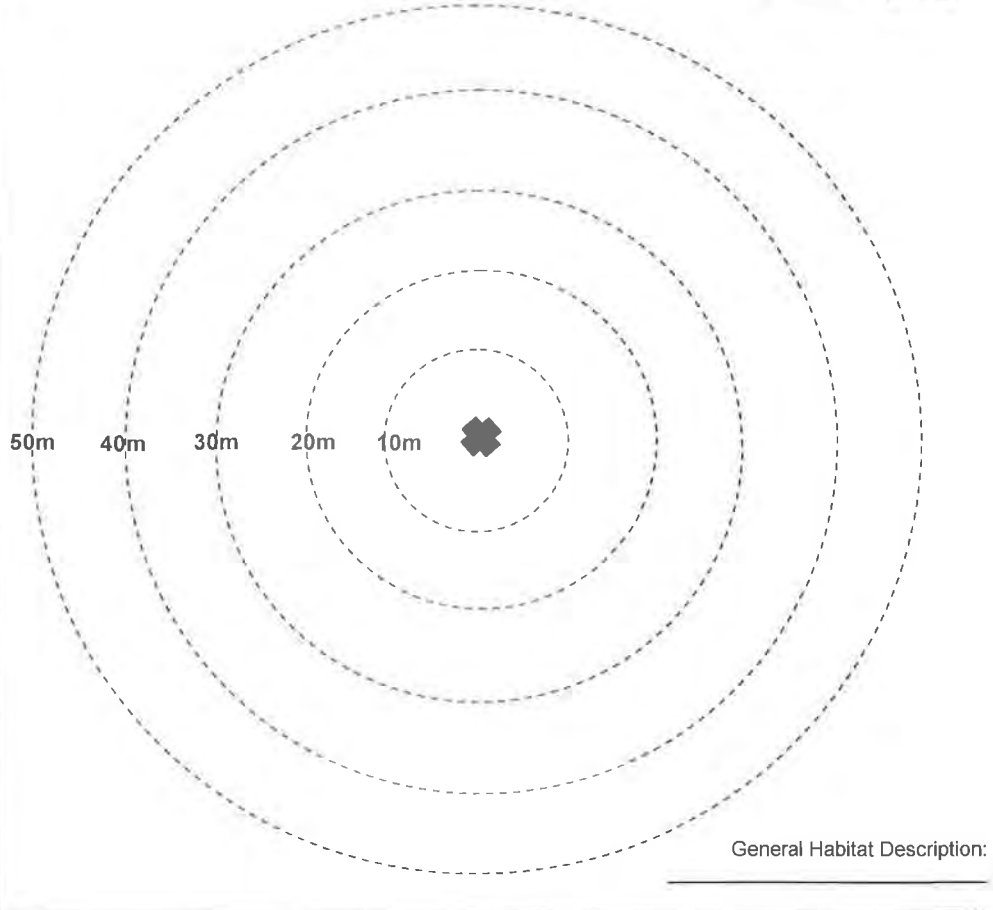
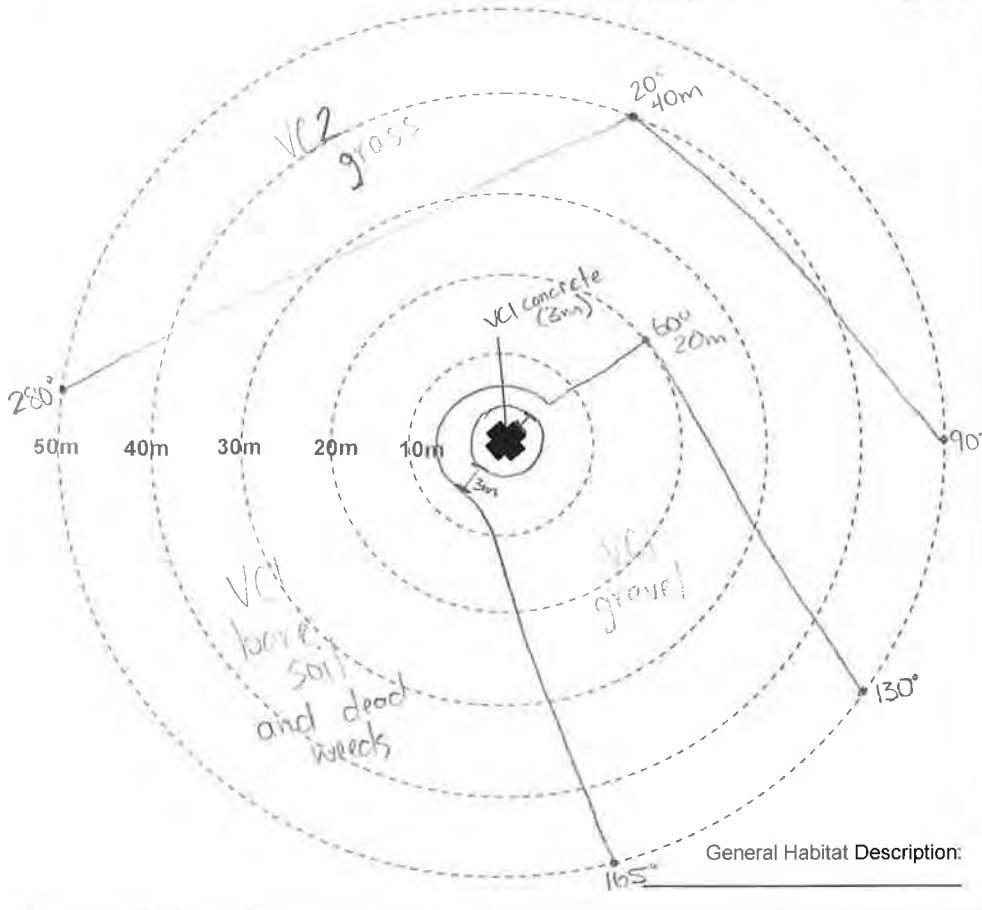
Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 05/04/19
 Observer: Shelby H
 Monthly/Seasonal
 Linear Transect Width: 5 m



Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121B Turbine #: S22 Degree of Slope +0.5 degrees Slope Orientation E (e.g. SSW)

up + 0
down + 1

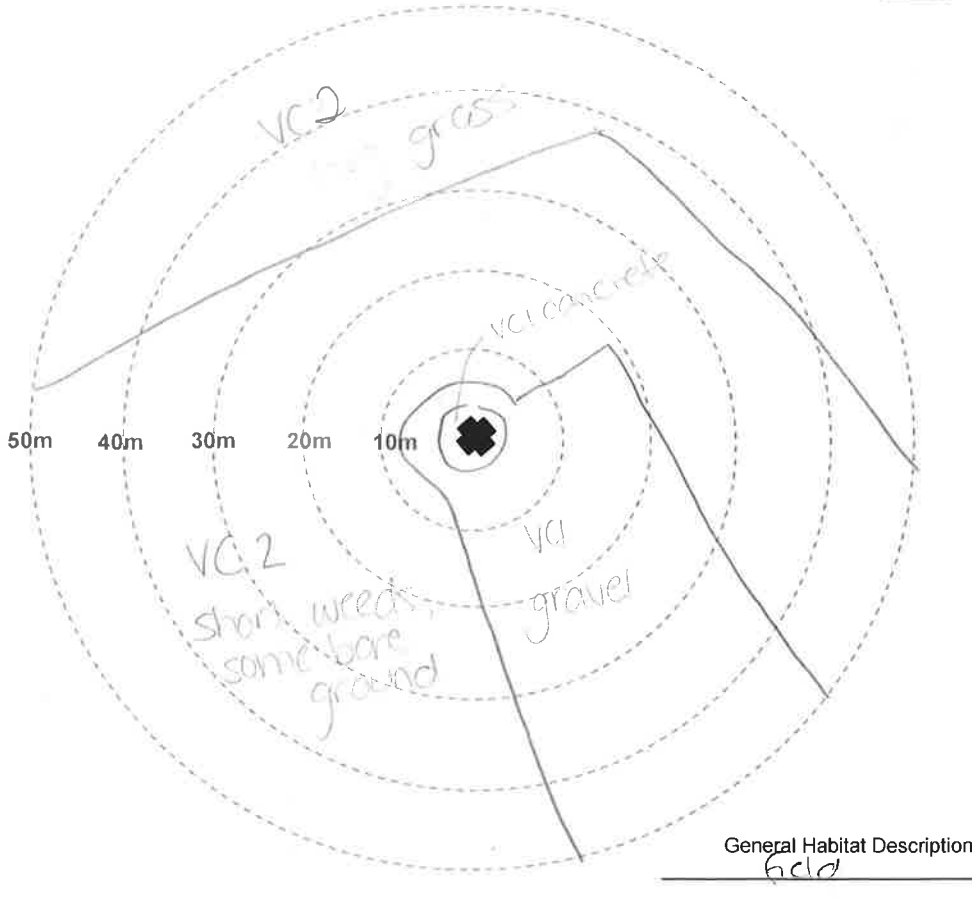
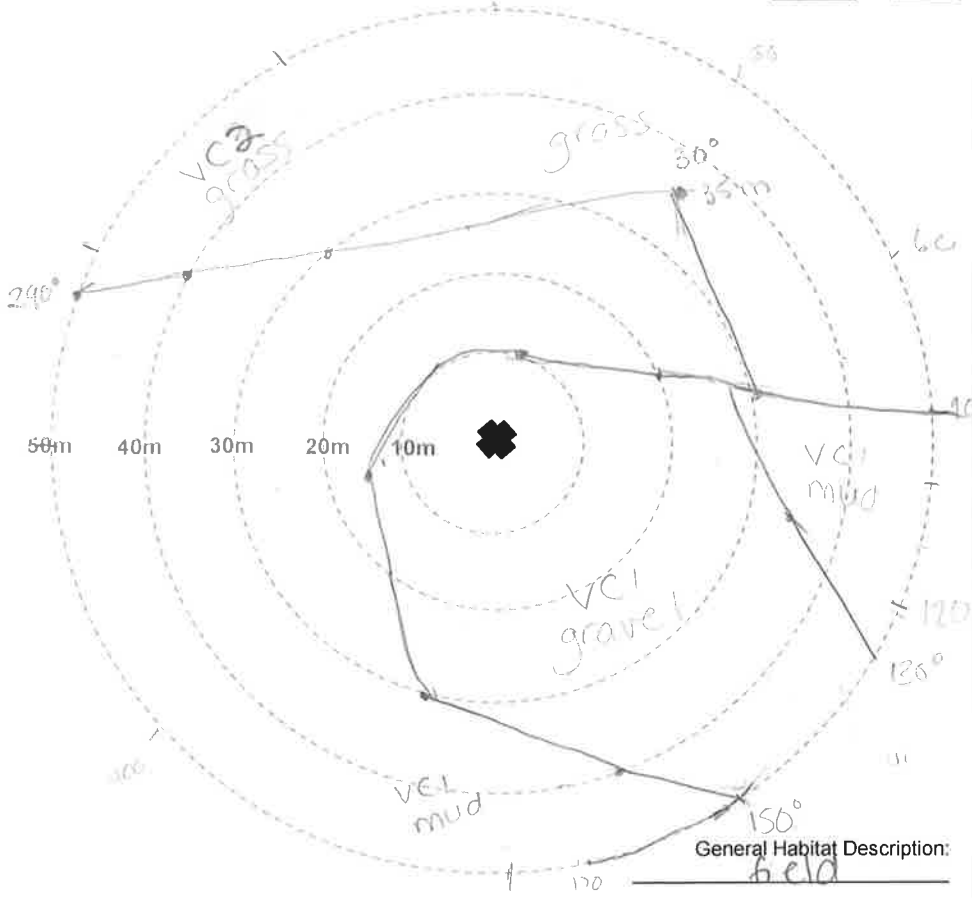
Photo Numbers (from turbine base)
 Facing North: 2252
 Facing East: 2253
 Facing South: 2254
 Facing West: 2255
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 10/05/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 5 m



Photo Numbers (from turbine base)
 Facing North: 2130
 Facing East: 2131
 Facing South: 2132
 Facing West: 2133
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 07/06/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 5 m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Aubrey U.P. Project #: 212.3 Turbine #: 328

Photo Numbers (from turbine base)
 Facing North: 124117
 Facing East: 124118
 Facing South: 124119
 Facing West: 124120
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 11/07/19
 Observer: MRI
 Monthly/Seasonal
 Linear Transect Width: 5 m

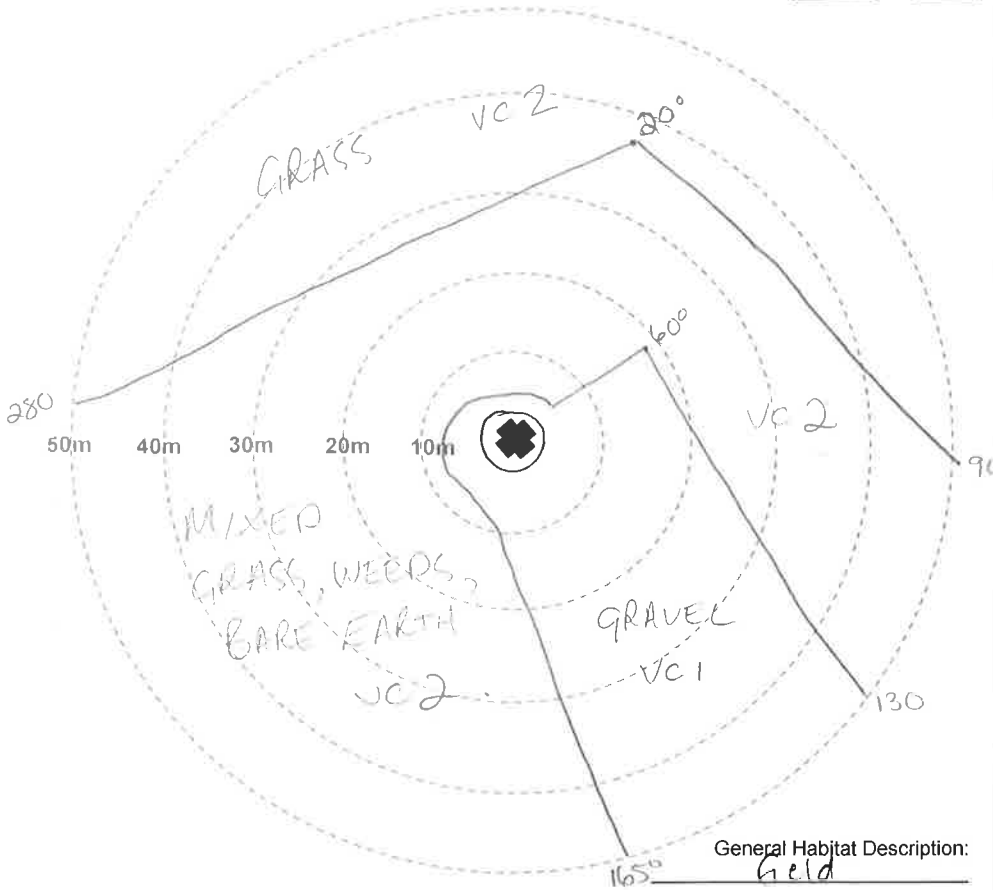
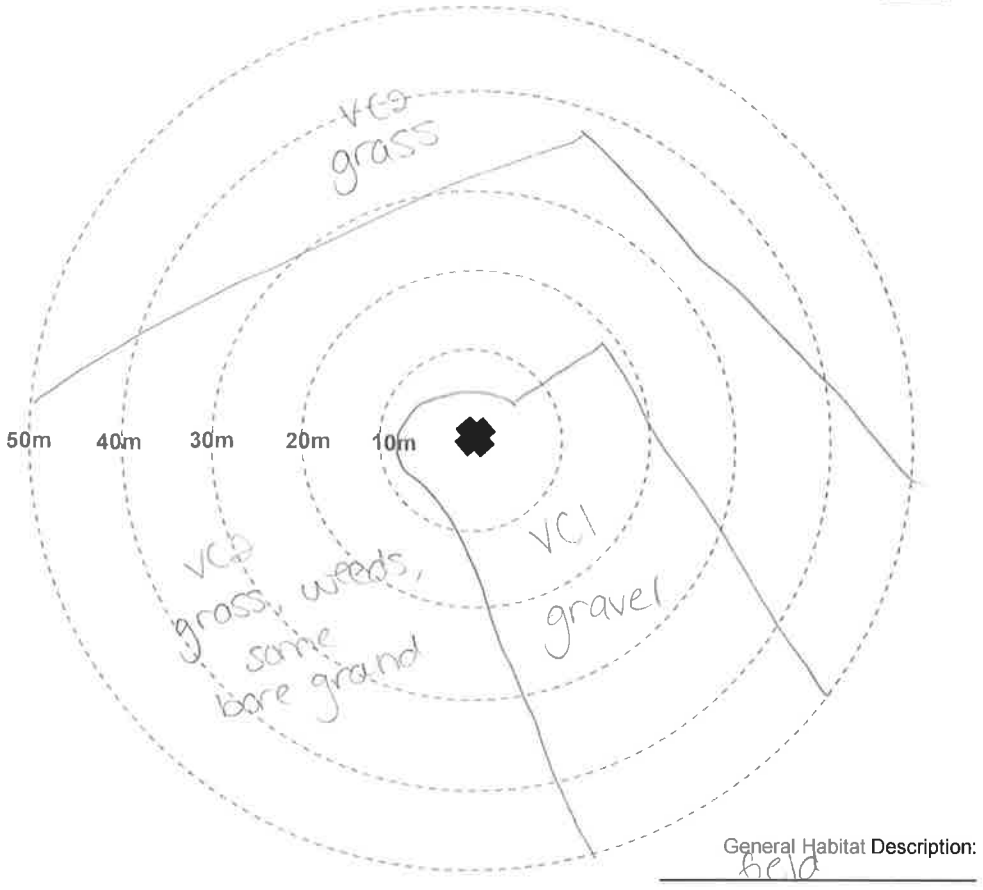


Photo Numbers (from turbine base)
 Facing North: 1141
 Facing East: 1142
 Facing South: 1143
 Facing West: 1144
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 08/08/19
 Observer: JLB
 Monthly/Seasonal
 Linear Transect Width: 5 m



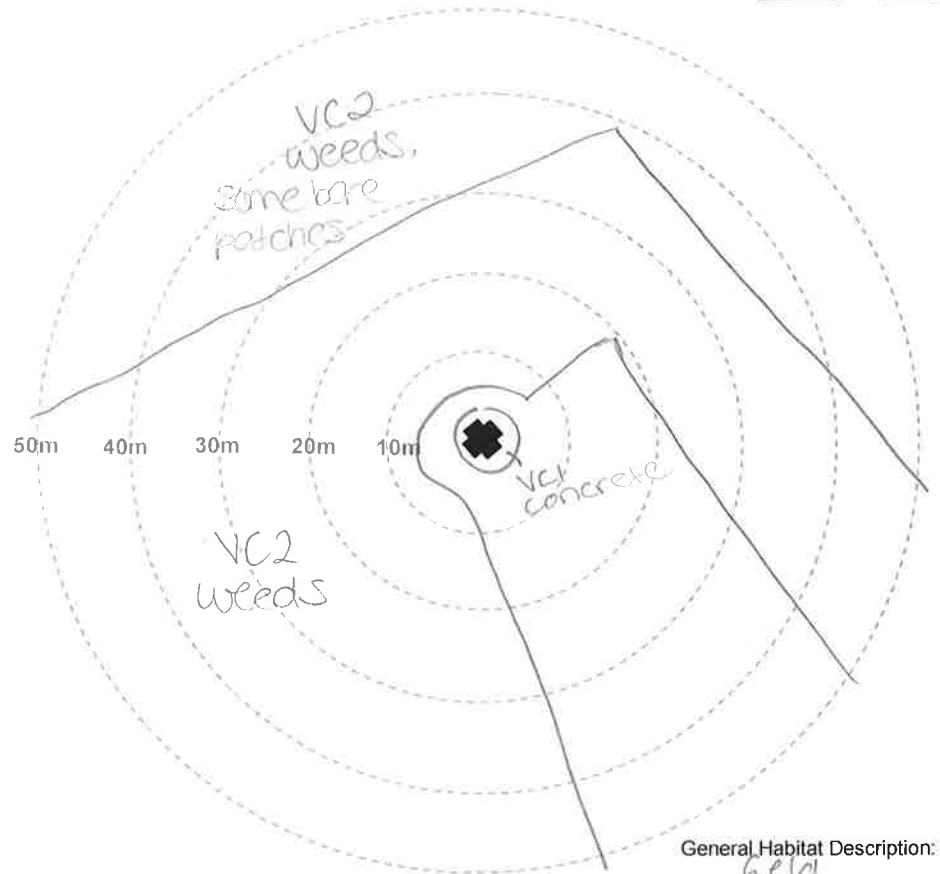
VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Antirist Island WE Project #: 221B Turbine #: S22

Photo Numbers (from turbine base)
 Facing North: 90907
 Facing East: 90908
 Facing South: 90909
 Facing West: 90910
 (sketch habitat and visibility classes)

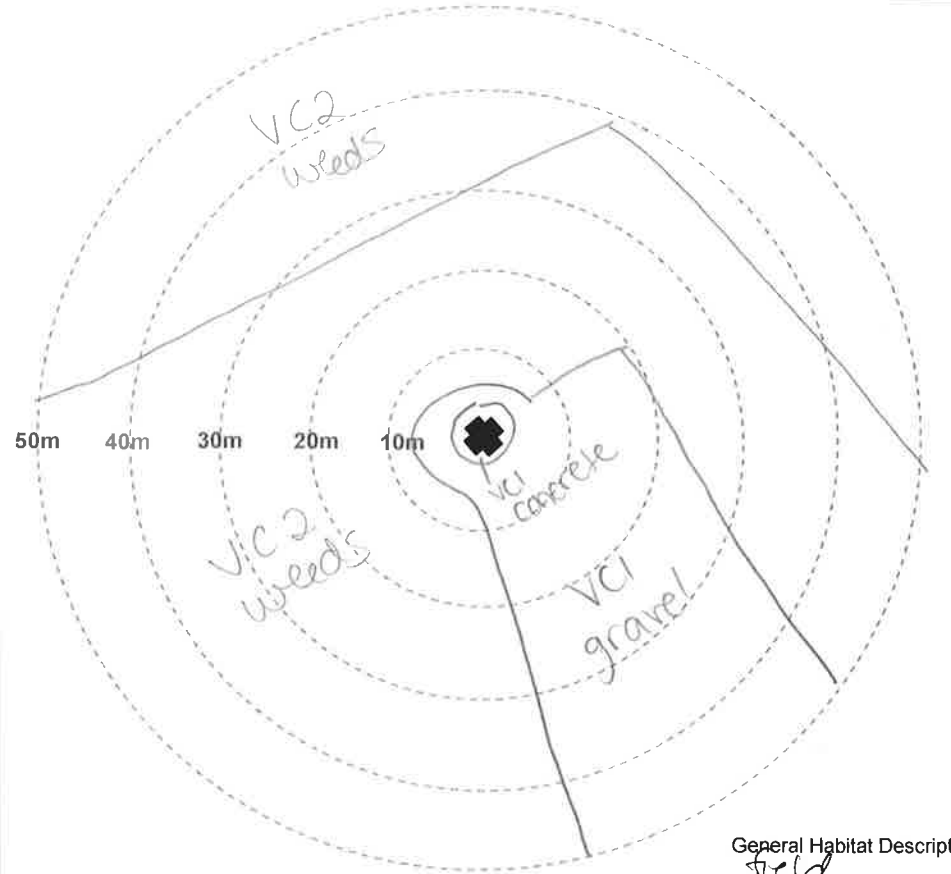
Date (DD/MM/YY): 09/09/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 5 m **N**



General Habitat Description: field

Photo Numbers (from turbine base)
 Facing North: 102439
 Facing East: 102440
 Facing South: 102441
 Facing West: 102442
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 24/10/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 5 m **N**



General Habitat Description: field

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

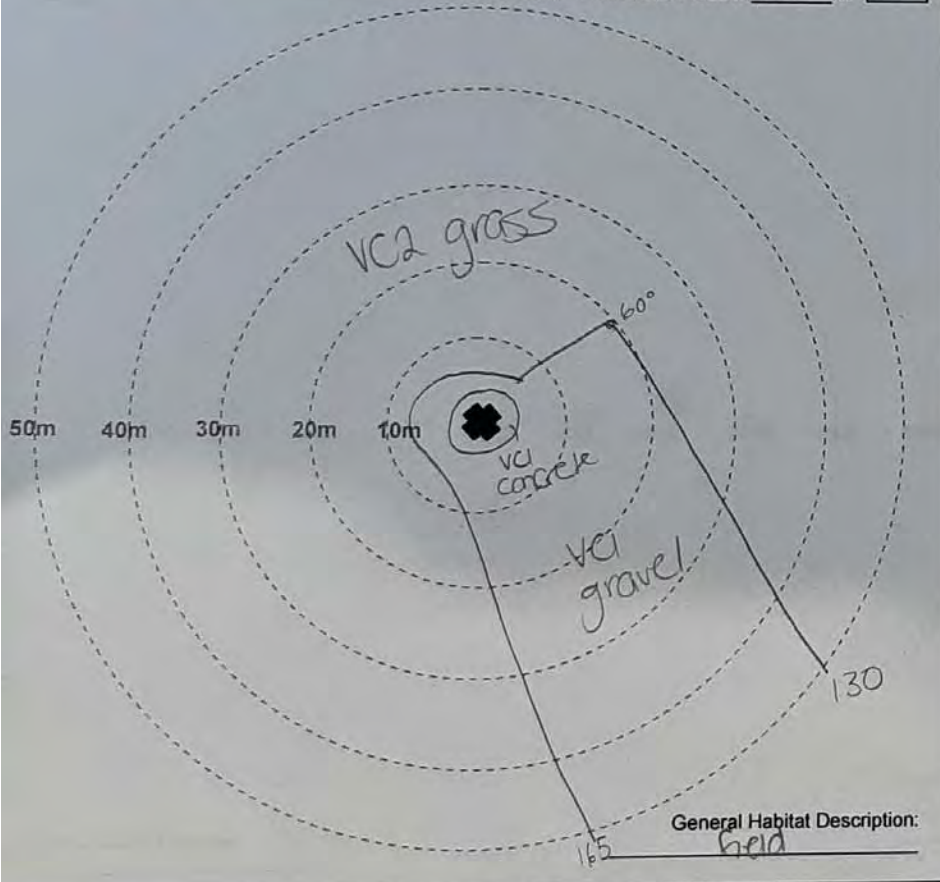
Project Name: Amherst Island up Project #: 2618 Turbine #: 528 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 231221
 Facing East: 231222
 Facing South: 231223
 Facing West: 231224
 (sketch habitat and visibility classes)

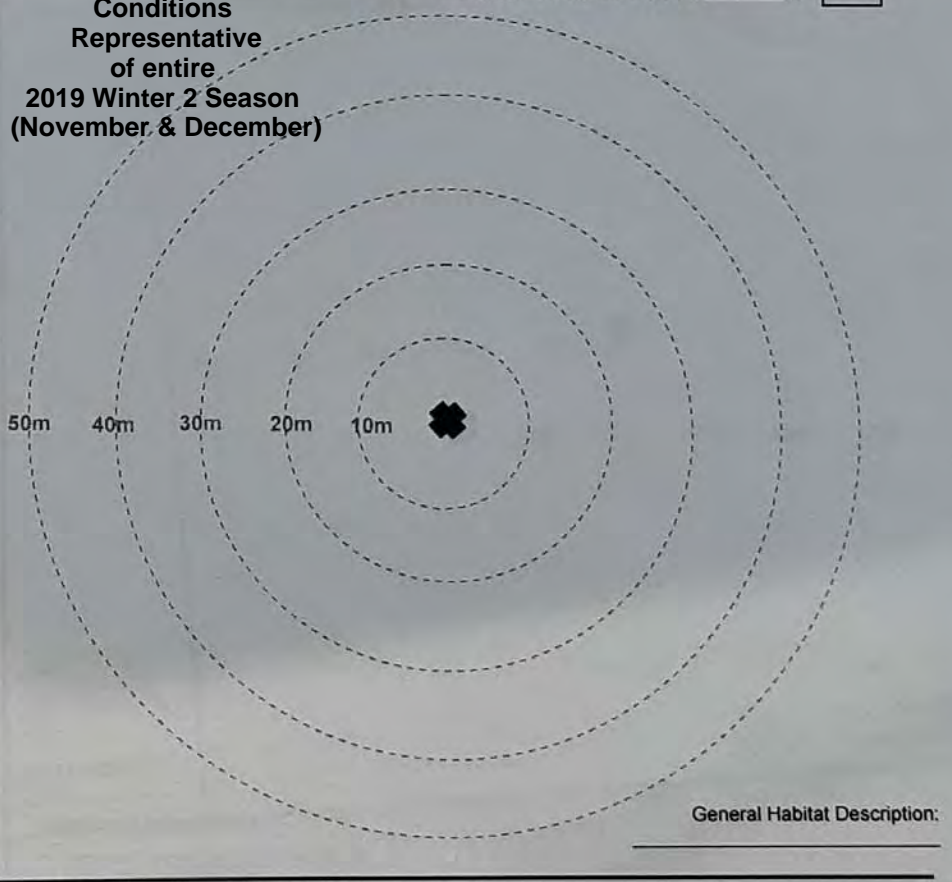
Date (DD/MM/YY): 23/12/19
 Observer: JYB
 Monthly/Seasonal Linear Transect Width: 5 m

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal Linear Transect Width: _____ m



Conditions Representative of entire 2019 Winter 2 Season (November & December)



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121A Turbine #: 529 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

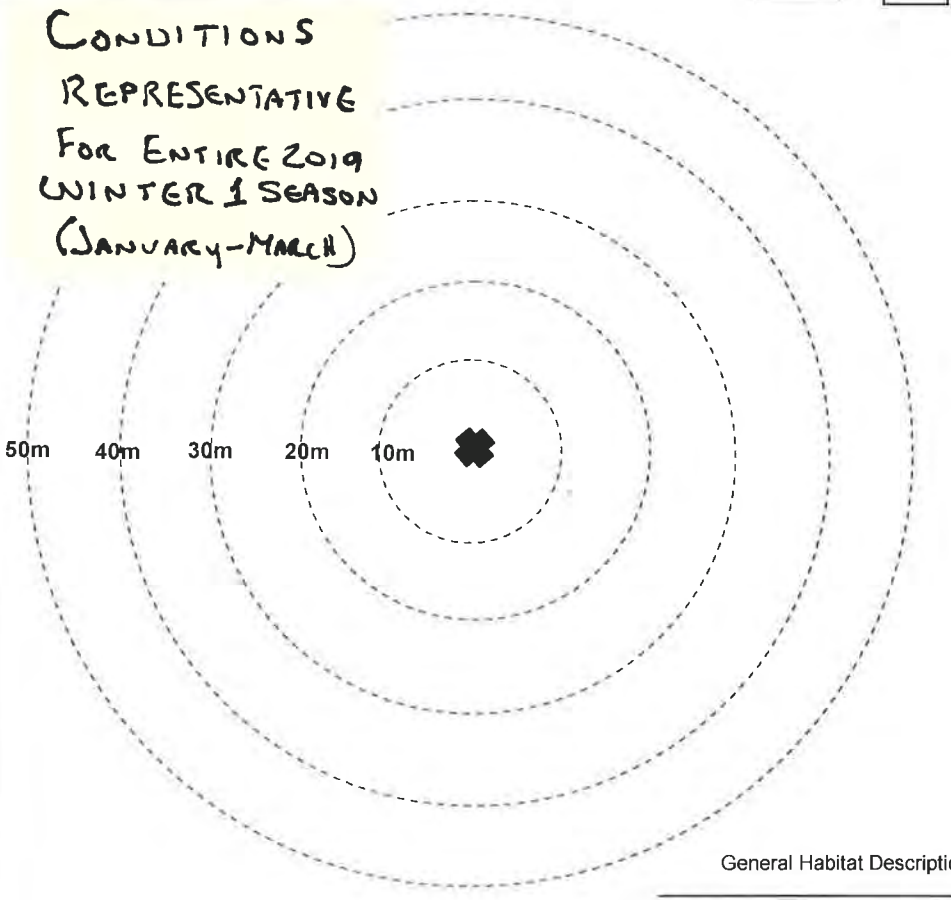
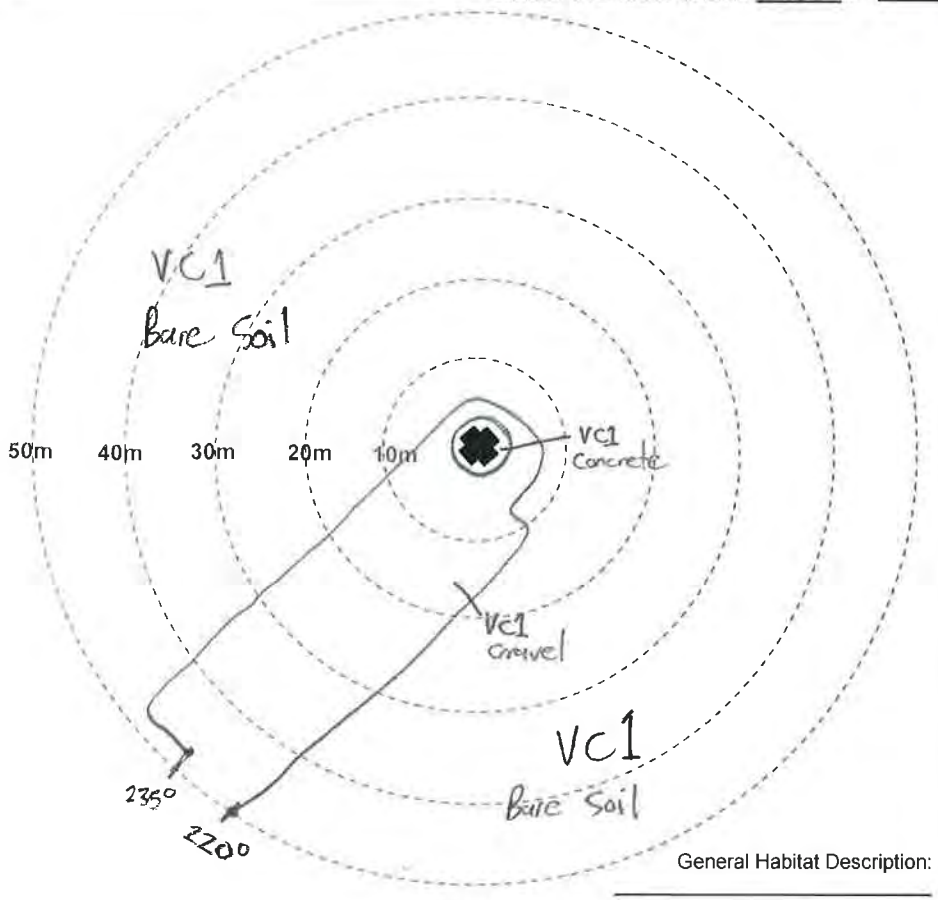
Photo Numbers (from turbine base)
 Facing North: 2771
 Facing East: 2772
 Facing South: 2773
 Facing West: 2774
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 11/02/19
 Observer: BAH
 Monthly/Seasonal Linear Transect Width: 5 m



Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ____/____/____
 Observer: _____
 Monthly/Seasonal Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

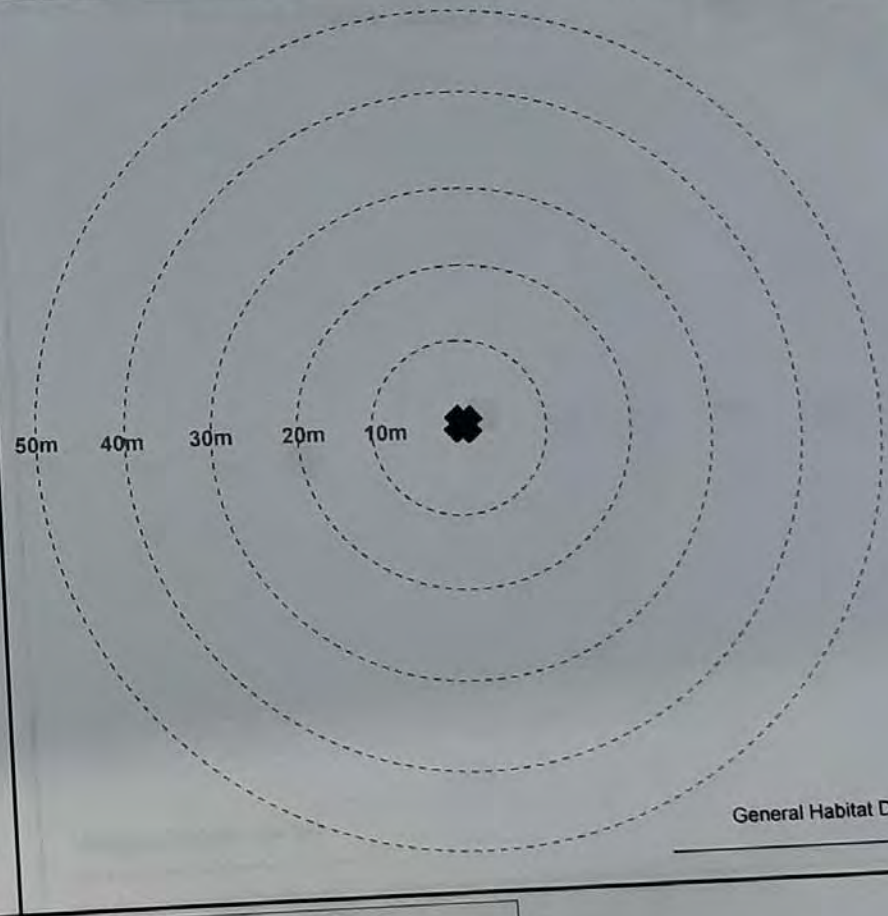
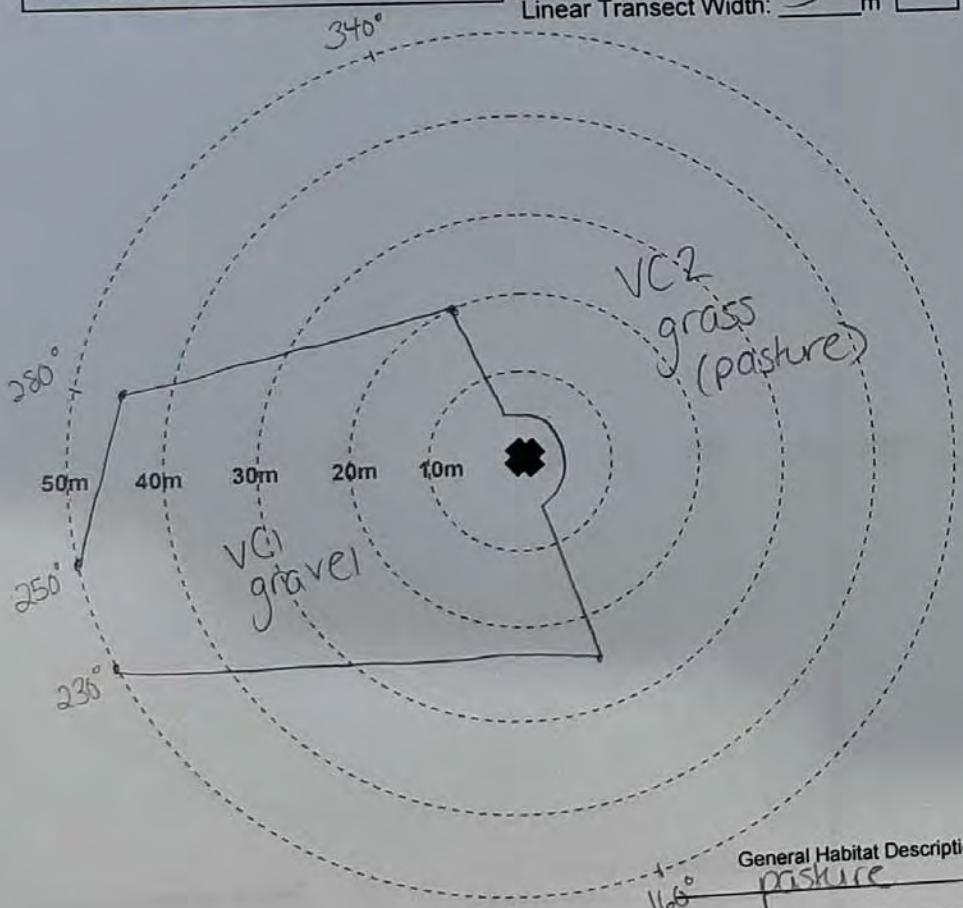
Project Name: Amherst Island AP Project #: 2121B Turbine #: S29

Photo Numbers (from turbine base)
 Facing North: 221223
 Facing East: 221224
 Facing South: 221225
 Facing West: 221226
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 22/12/19
 Observer: JYB
 Monthly/Seasonal Linear Transect Width: 5 m

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal Linear Transect Width: _____ m



General Habitat Description: pasture

General Habitat Description: _____

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amberst Island WP Project #: 2121A Turbine #: 530 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 1416
 Facing East: 1417
 Facing South: 1418
 Facing West: 1419
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 15/02/19
 Observer: BAH
 Monthly/Seasonal Linear Transect Width: 5 m

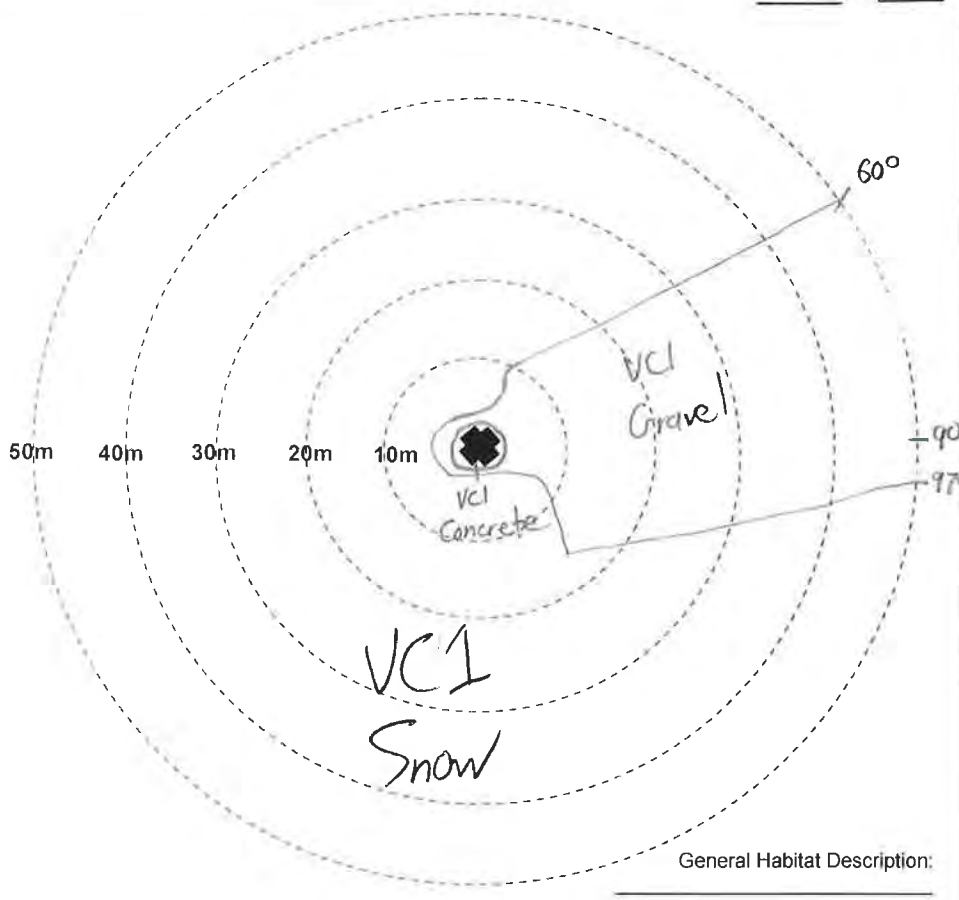
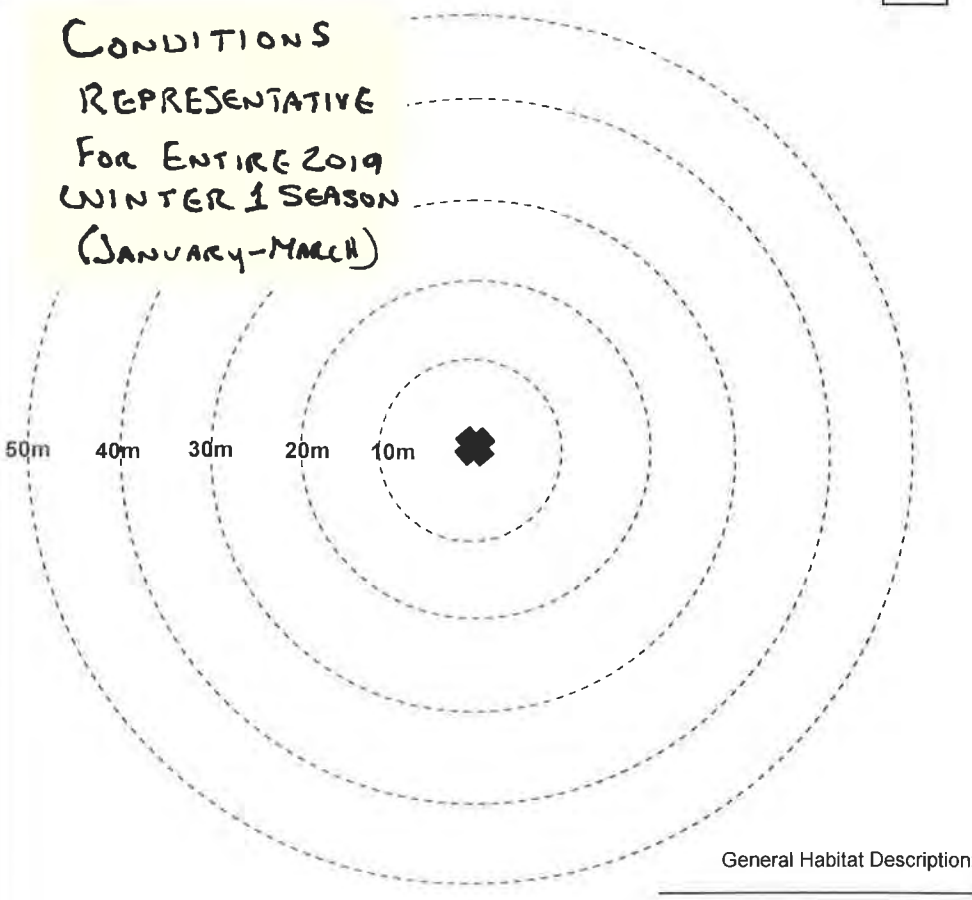


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 21213 Turbine #: 530 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

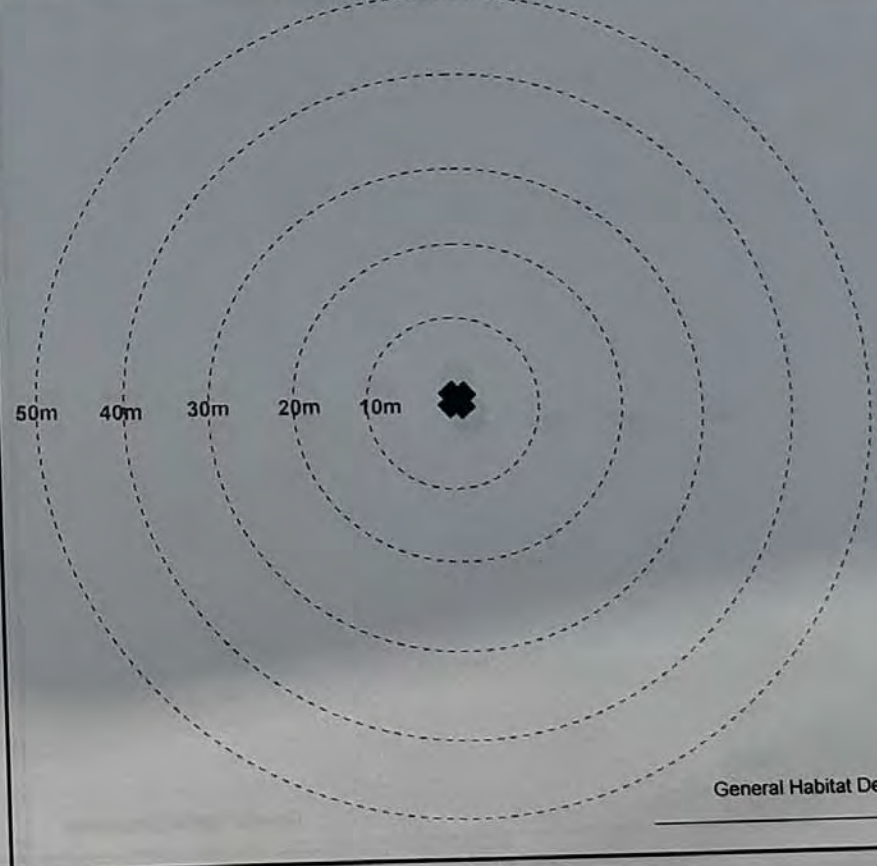
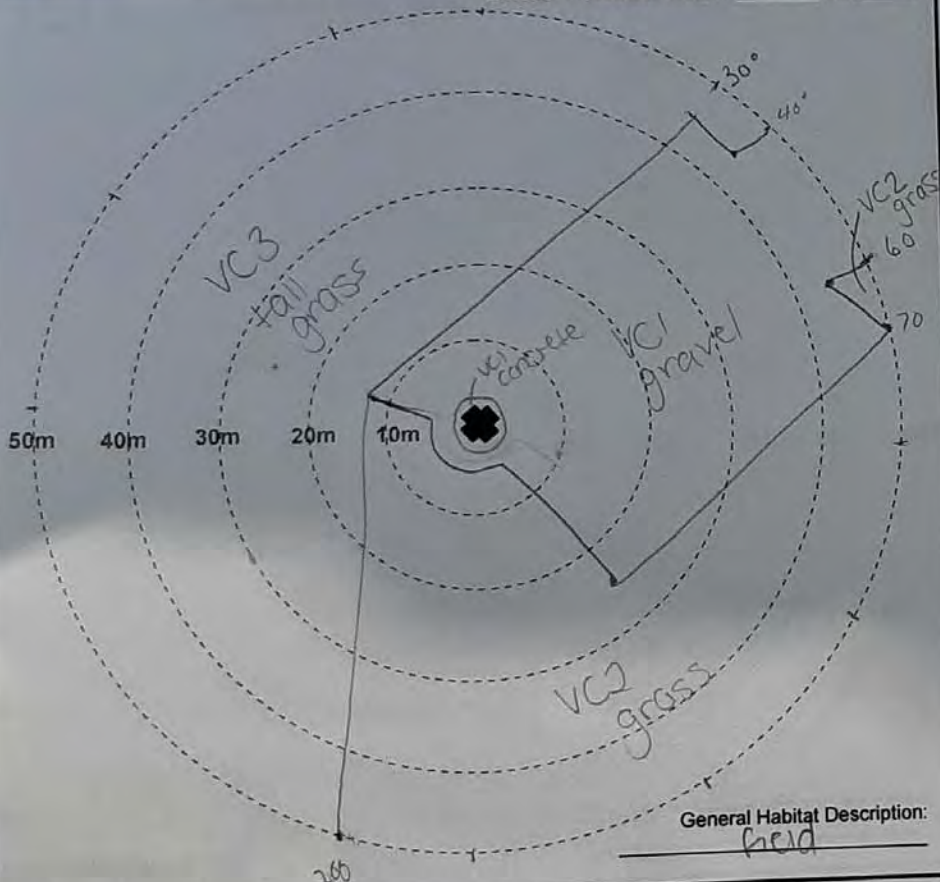
Photo Numbers (from turbine base)
 Facing North: 231201
 Facing East: 231202
 Facing South: 231203
 Facing West: 231204
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 23/12/19
 Observer: JLB
 Monthly/Seasonal Linear Transect Width: 5 m



Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121A Turbine #: 531 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 2825
 Facing East: 2826
 Facing South: 2827
 Facing West: 2828
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 14/02/19

Observer: BAH

Monthly/Seasonal Linear Transect Width: 5 m

↑
N

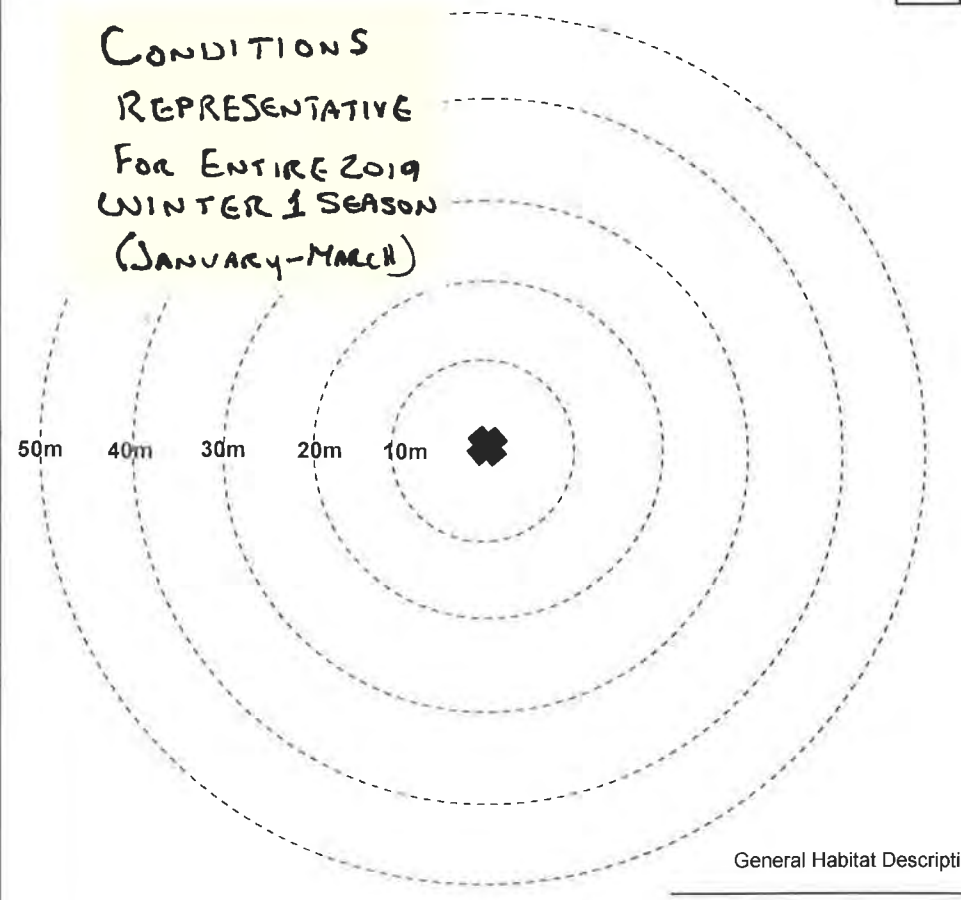
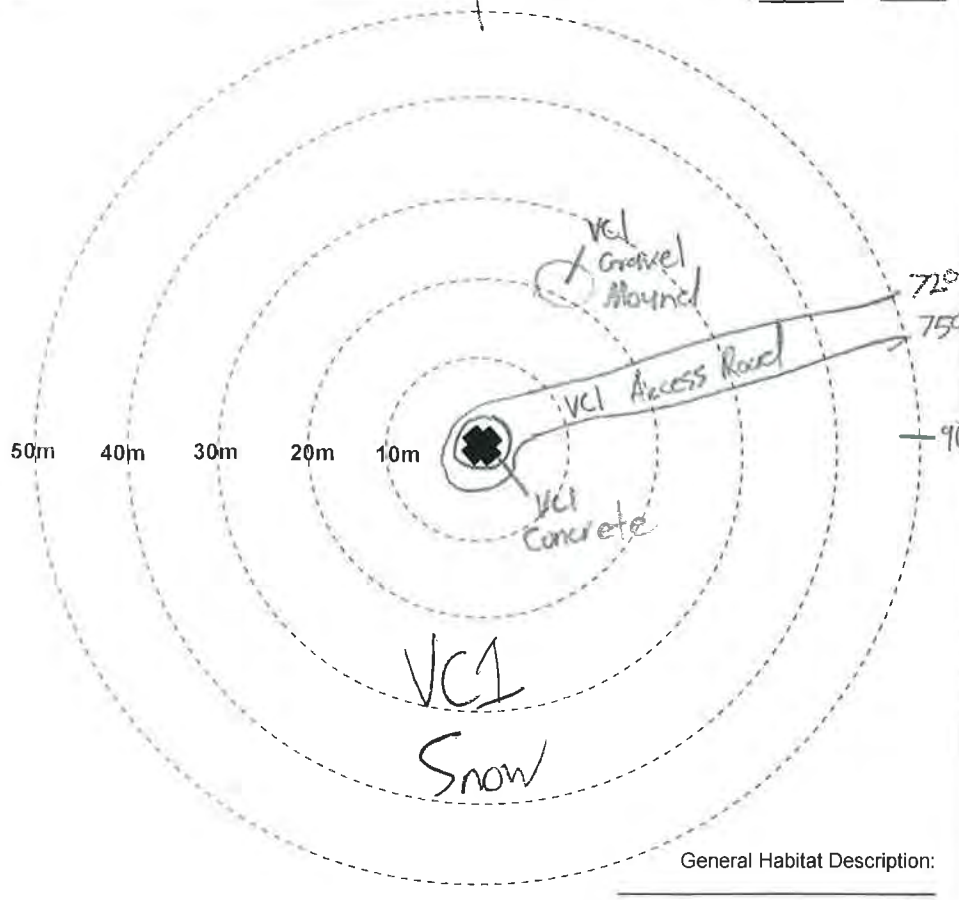
Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___

Observer: _____

Monthly/Seasonal Linear Transect Width: _____ m

↑
N



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

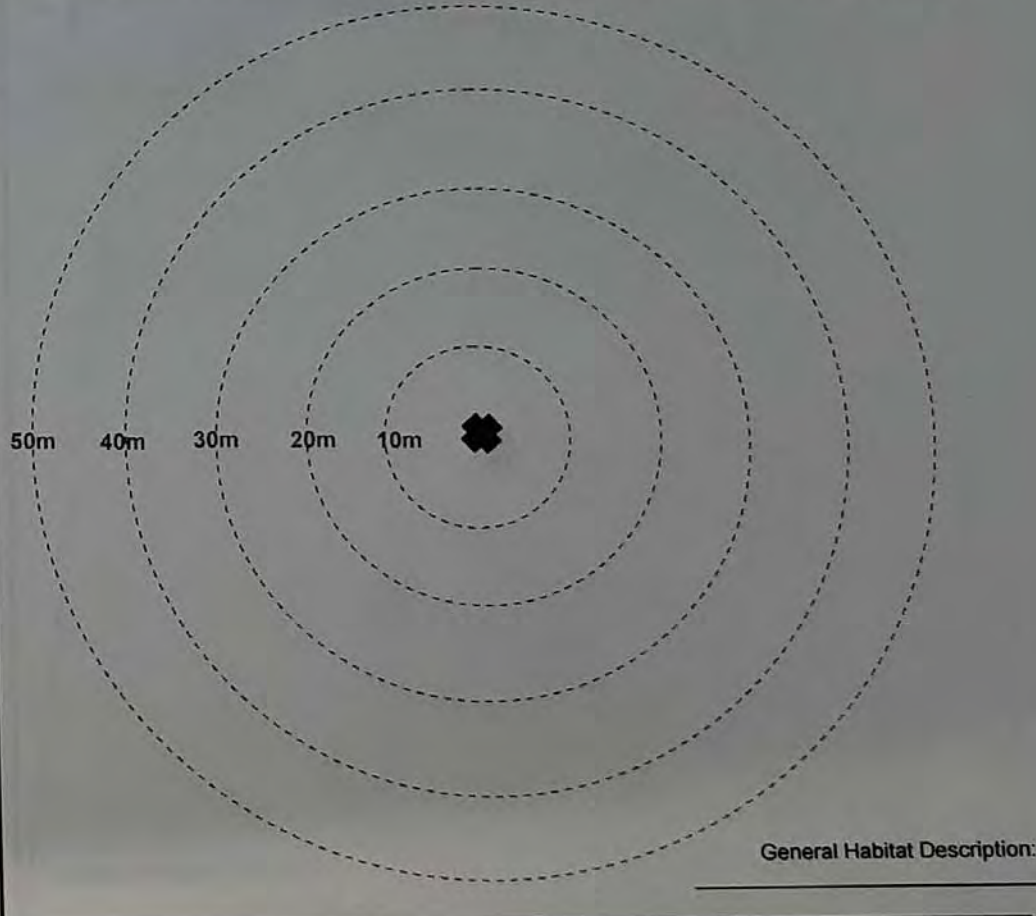
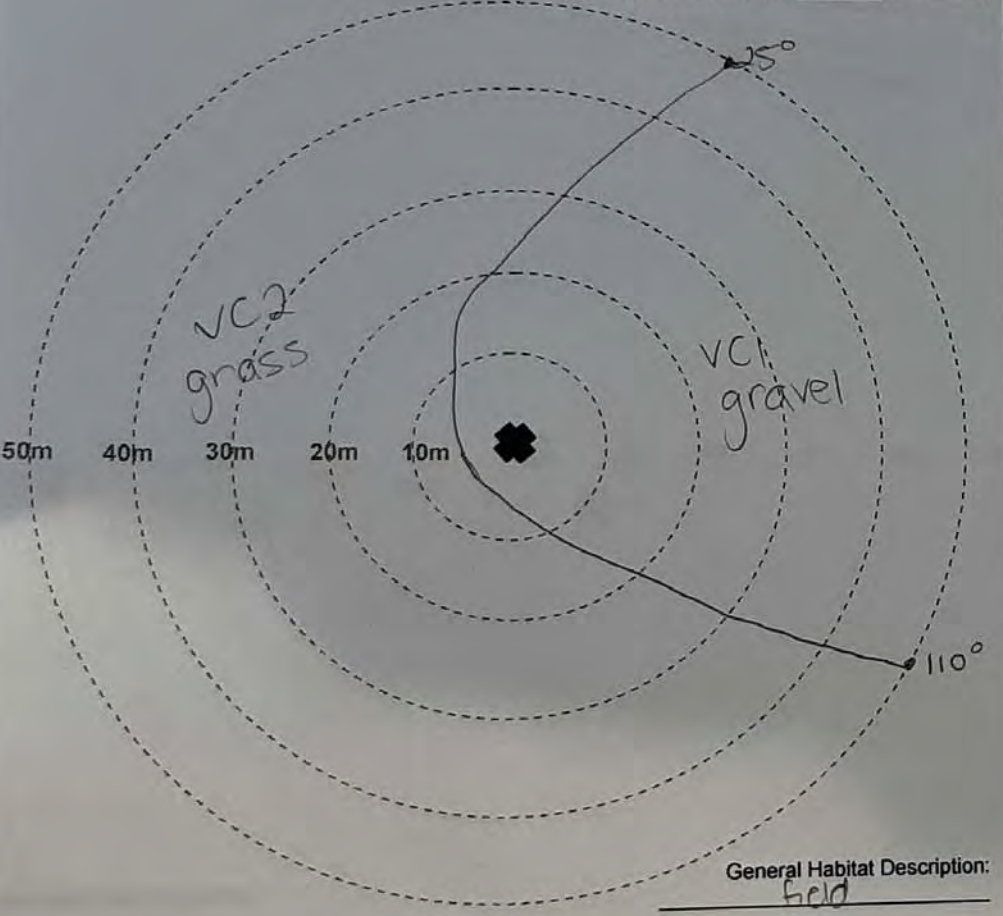
Project Name: Amherst Island WP Project #: 21218 Turbine #: S31 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 221253
 Facing East: 221254
 Facing South: 221255
 Facing West: 221256
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 22/12/19
 Observer: J4B
 Monthly/Seasonal
 Linear Transect Width: 5 m

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121A Turbine #: S 33 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

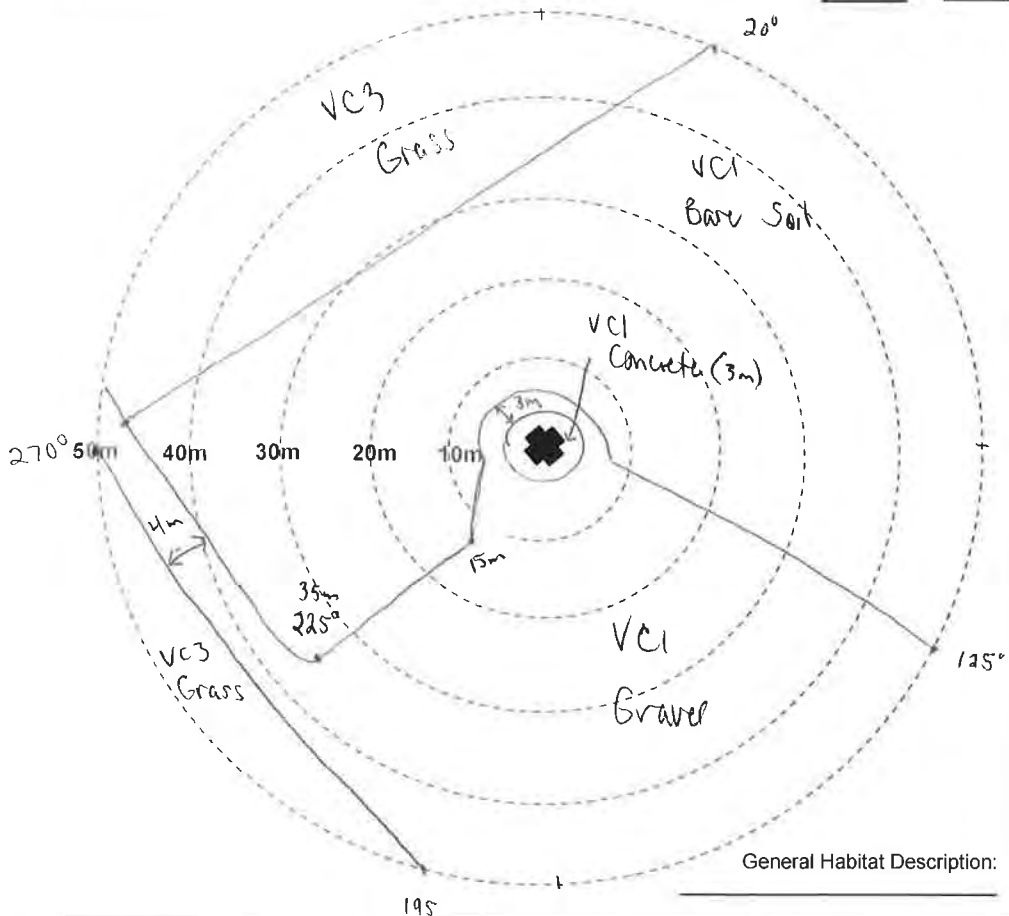
Photo Numbers (from turbine base)
 Facing North: 3215
 Facing East: 3216
 Facing South: 3217
 Facing West: 3218
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 06 / 02 / 19
 Observer: KMH
 Monthly/Seasonal
 Linear Transect Width: 5 m

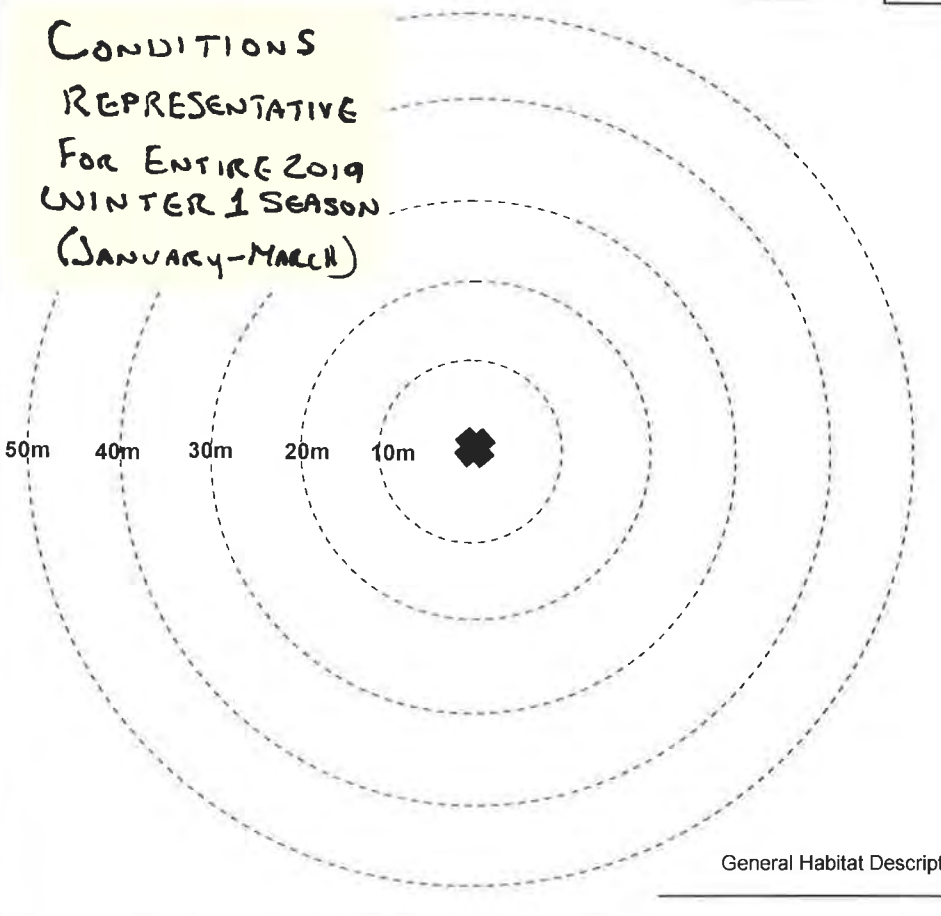


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



General Habitat Description: _____



General Habitat Description: _____

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121B Turbine #: S33 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 231217
 Facing East: 231218
 Facing South: 231219
 Facing West: 231220
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 23/12/19
 Observer: J4B
 Monthly/Seasonal
 Linear Transect Width: 5 m

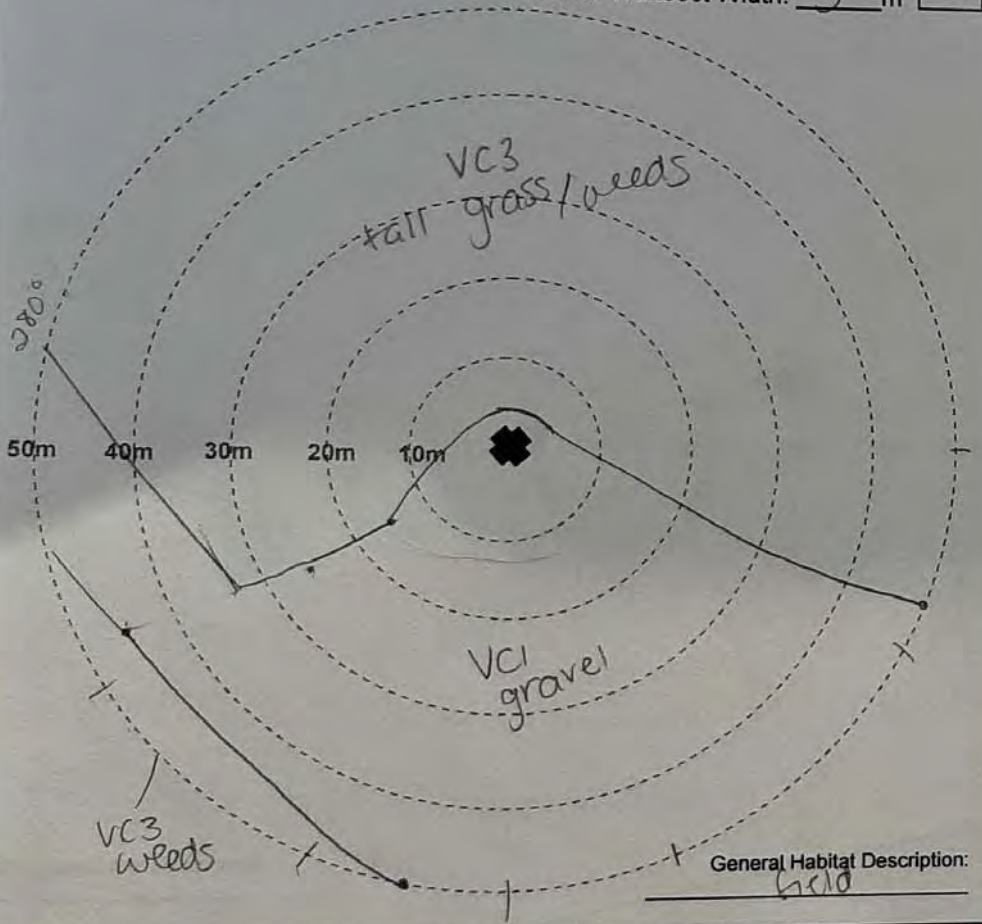
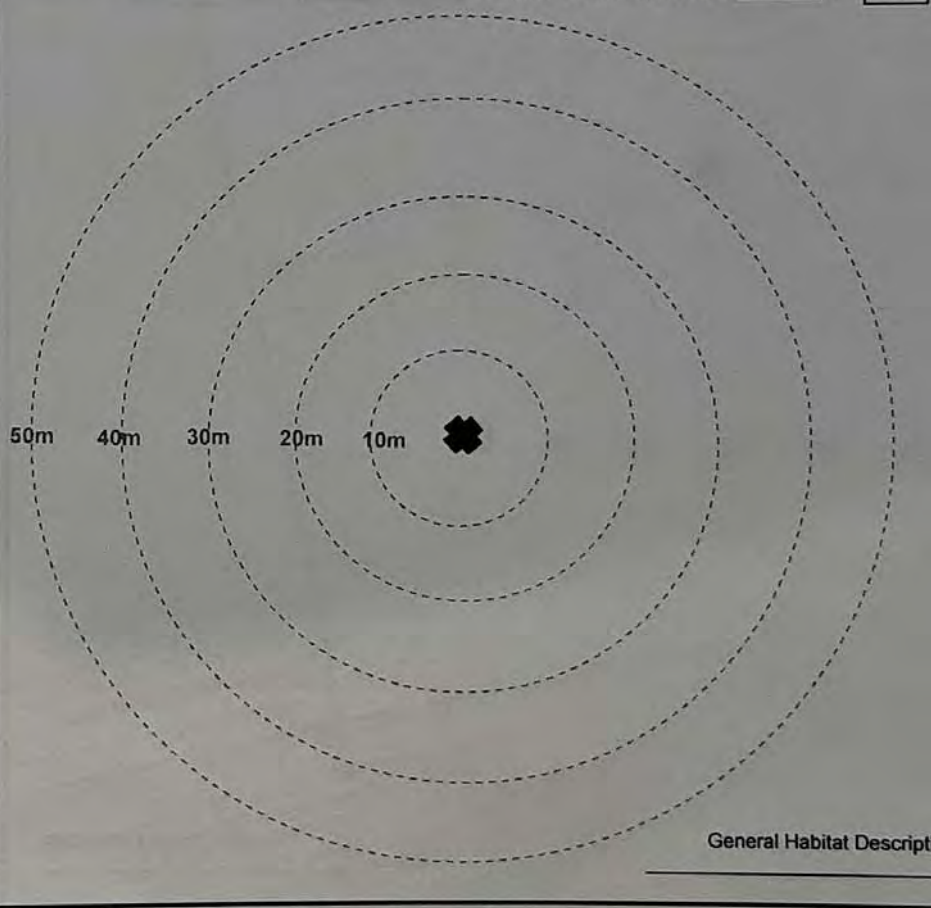


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2021A Turbine #: 534 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 2820
 Facing East: 2821
 Facing South: 2822
 Facing West: 2823
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 14/02/19

Observer: BAF

Monthly/Seasonal Linear Transect Width: 5 m

↑
N

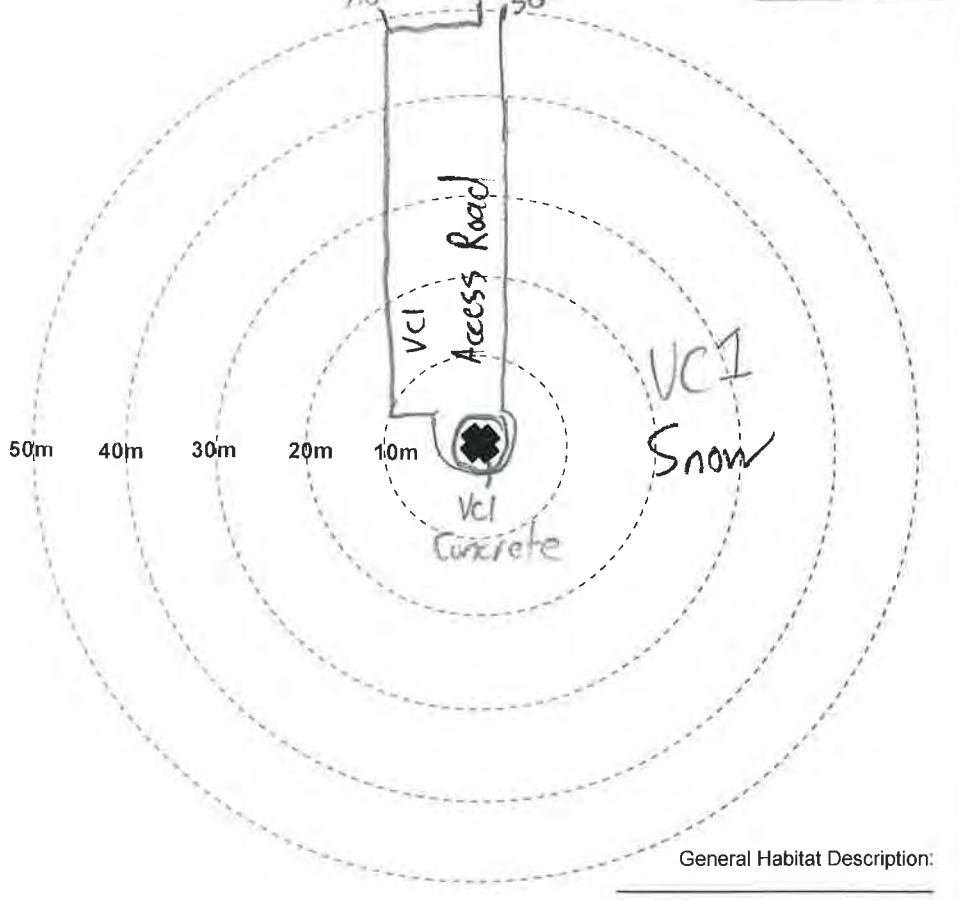


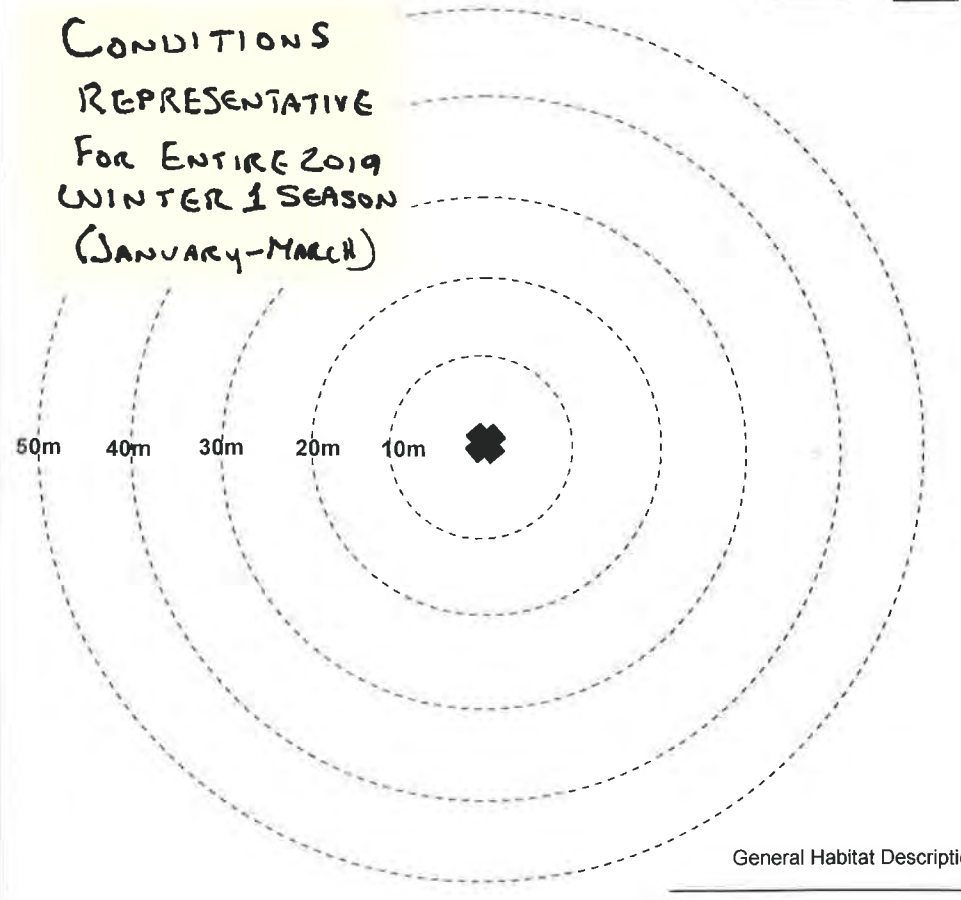
Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___

Observer: _____

Monthly/Seasonal Linear Transect Width: _____ m

↑
N



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 21218 Turbine #: 534 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 221257
 Facing East: 221258
 Facing South: 221259
 Facing West: 221260
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 22/12/19
 Observer: JUB
 Monthly/Seasonal Linear Transect Width: 5 m

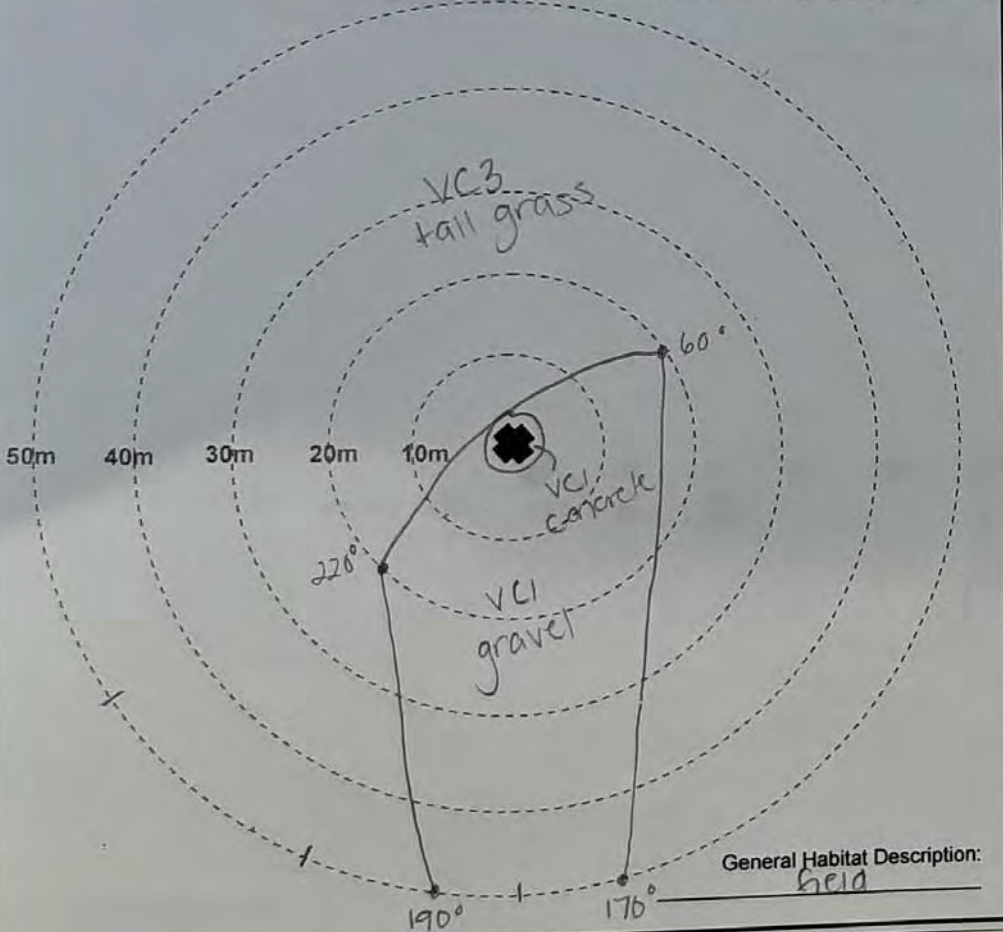
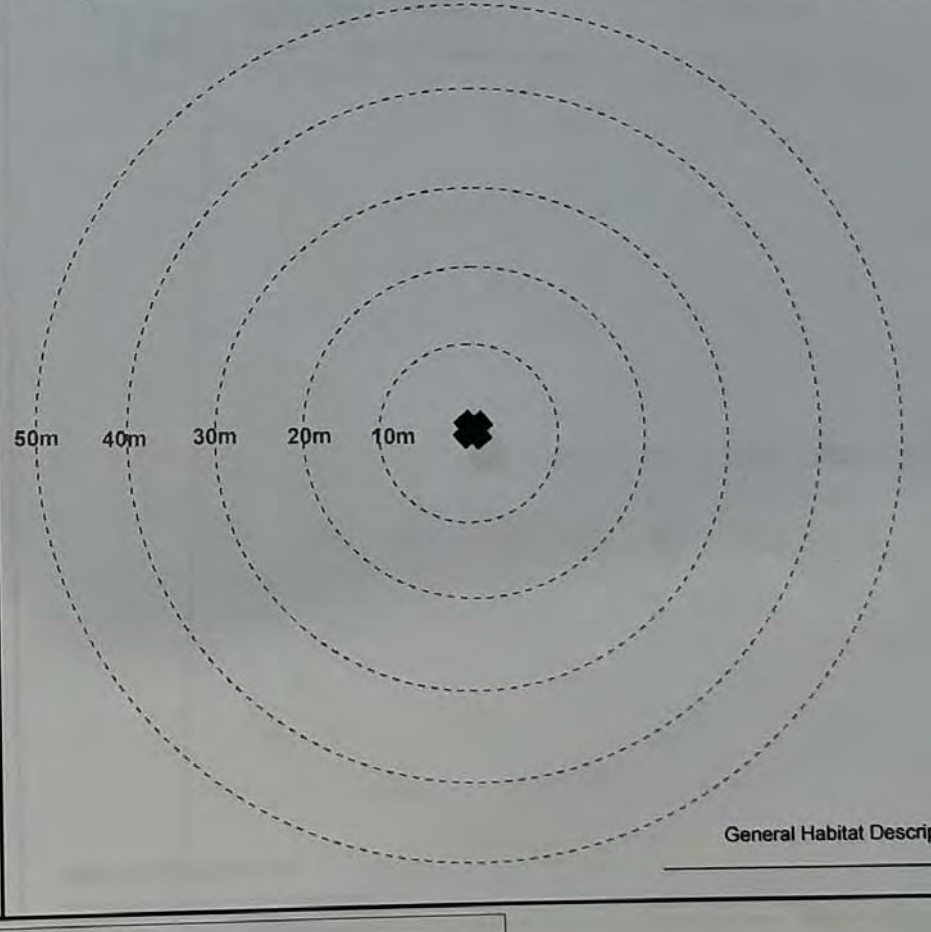


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121A Turbine #: S36 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 2805
 Facing East: 2804
 Facing South: 2805
 Facing West: 2805
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 14/02/19

Observer: BAH

Monthly/Seasonal Linear Transect Width: 5 m

↑
N

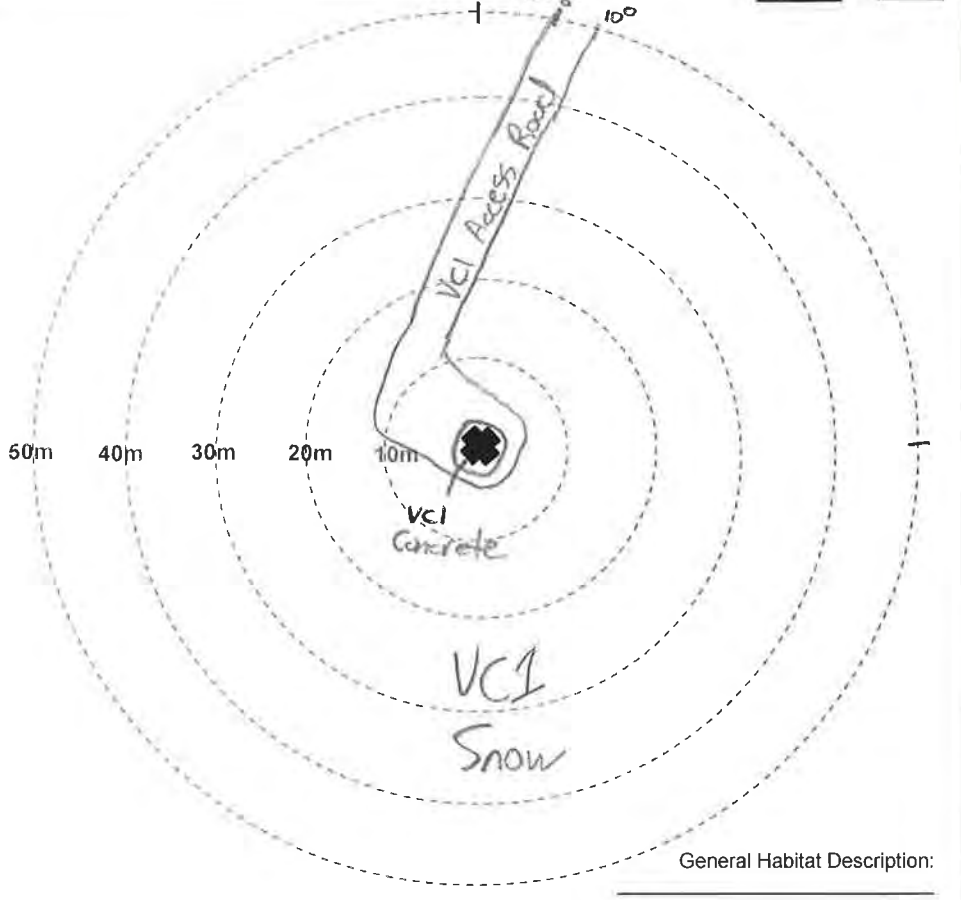


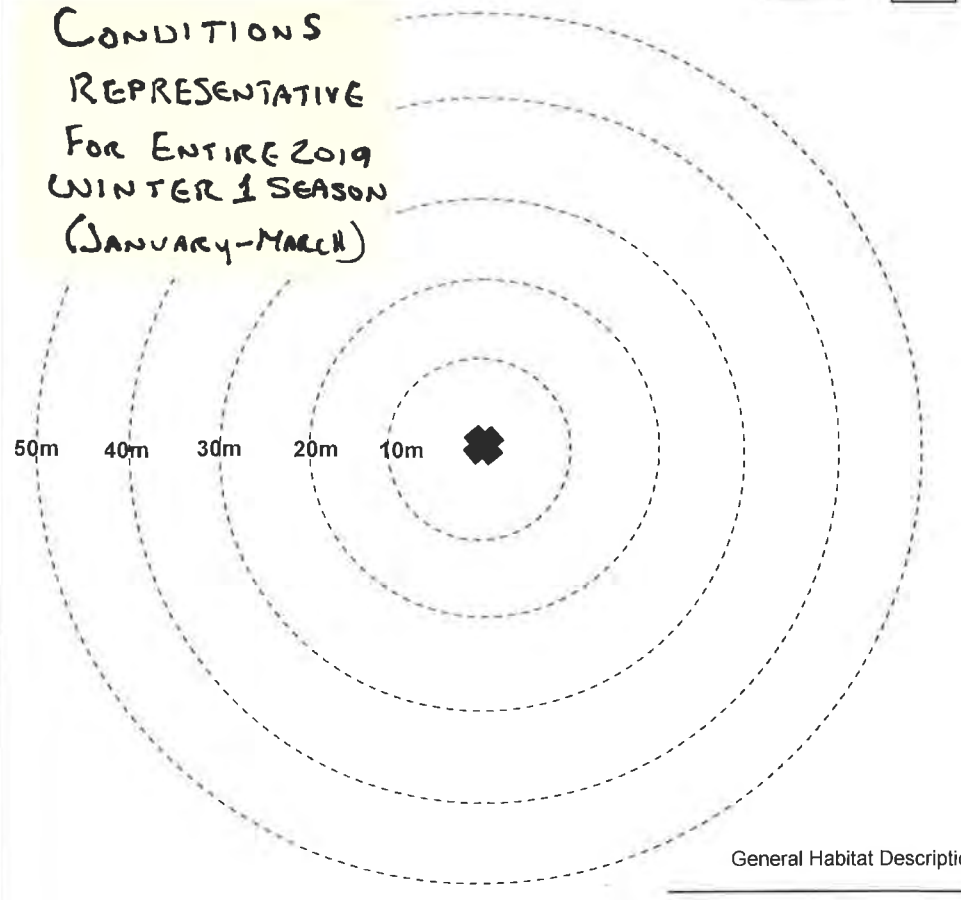
Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___

Observer: _____

Monthly/Seasonal Linear Transect Width: _____ m

↑
N



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 21218 Turbine #: S36 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

Photo Numbers (from turbine base)
 Facing North: 1821
 Facing East: 1822
 Facing South: 1823
 Facing West: 1824
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 05/04/19
 Observer: Shelby H.
 Monthly/Seasonal
 Linear Transect Width: 5 m

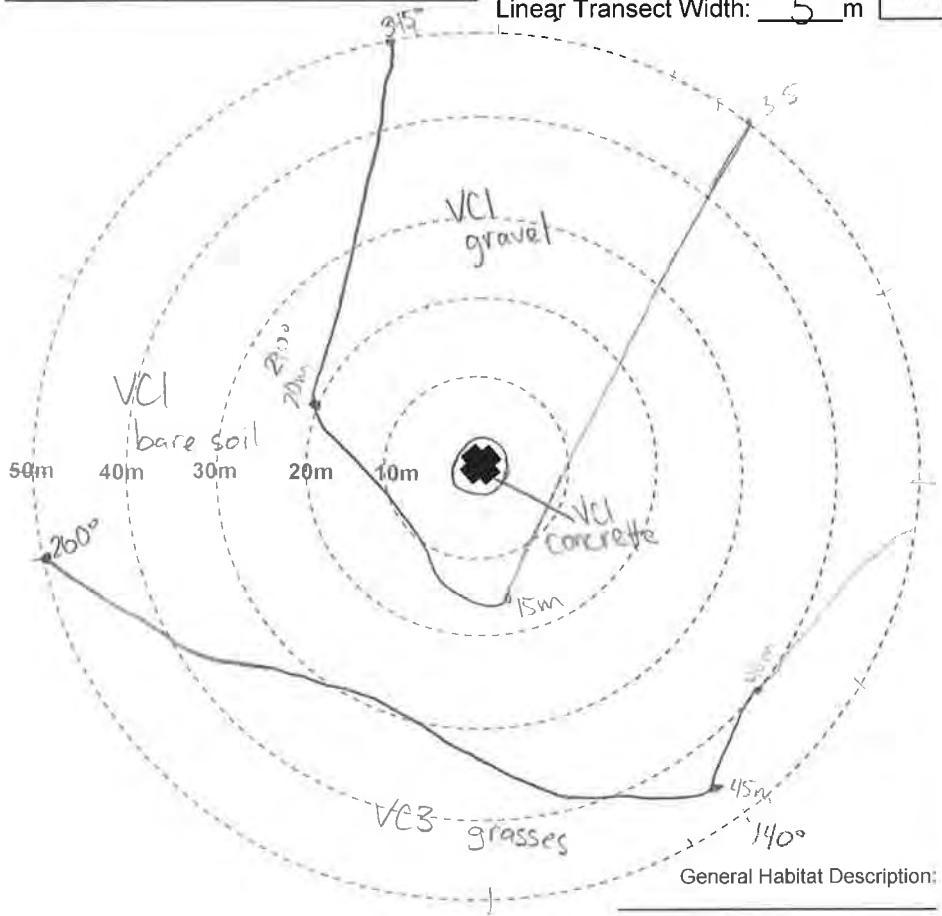
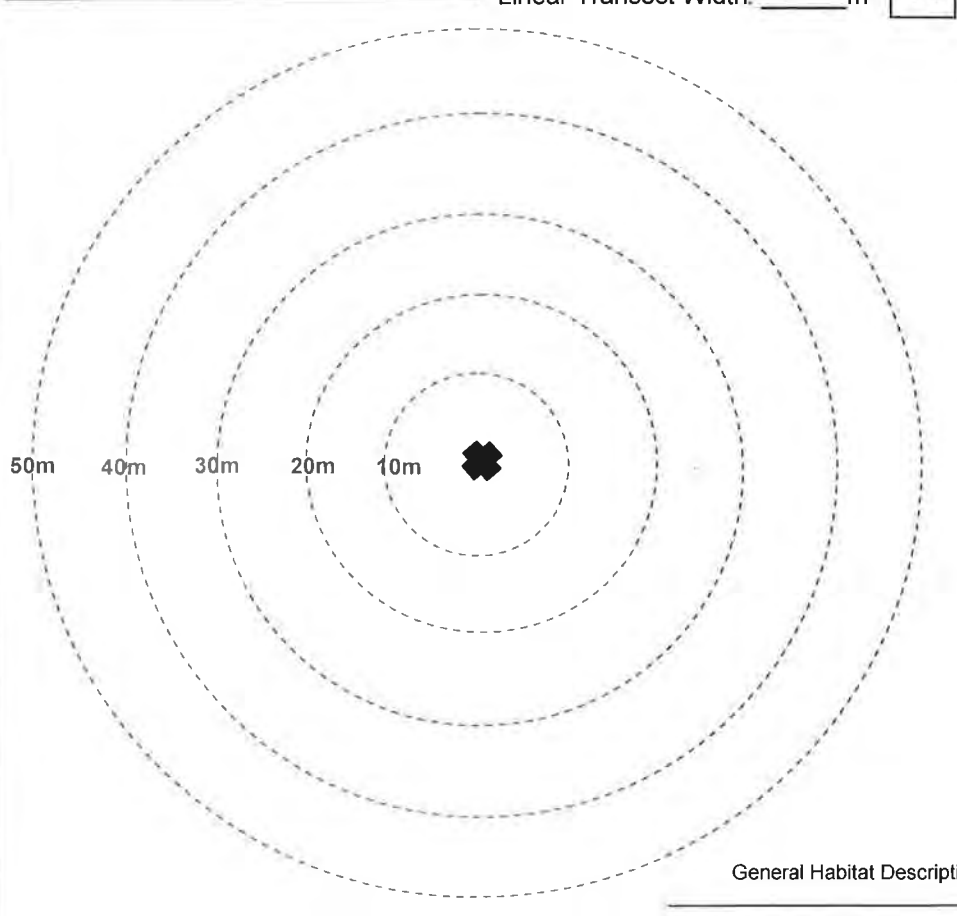


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amberc Island up Project #: 21218 Turbine #: 326 Degree of Slope +2 degrees Slope Orientation NE (e.g. SSW)

up +1
down +3

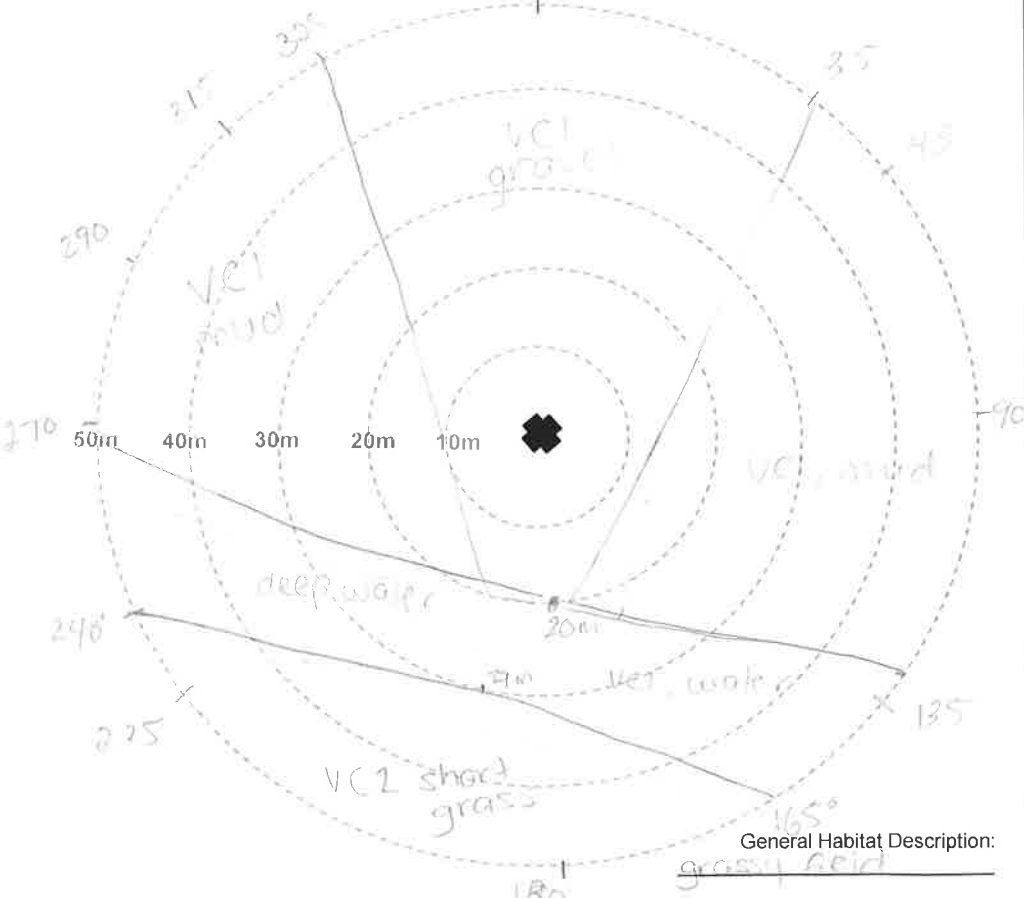
Photo Numbers (from turbine base)
Facing North: 2138
Facing East: 2139
Facing South: 2140
Facing West: 2137
(sketch habitat and visibility classes)

Date (DD/MM/YY): 02/05/19
Observer: JYB
Monthly/Seasonal
Linear Transect Width: 5 m

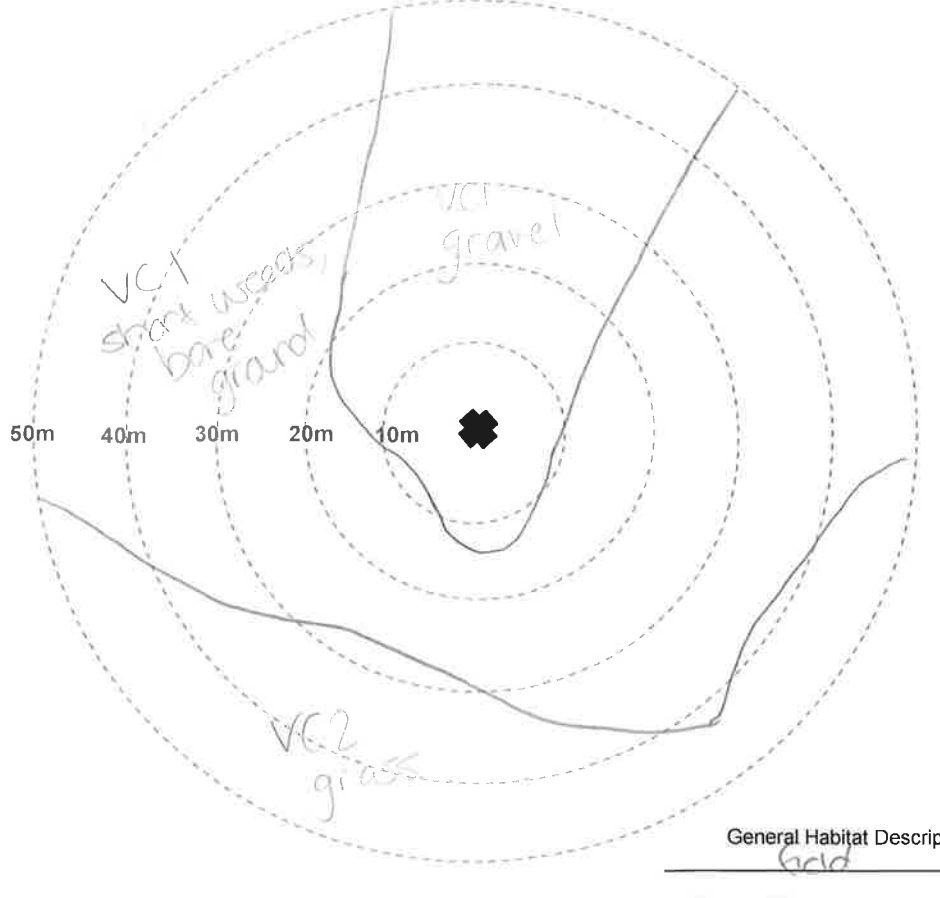


Photo Numbers (from turbine base)
Facing North: 2450
Facing East: 2451
Facing South: 2452
Facing West: 2453
(sketch habitat and visibility classes)

Date (DD/MM/YY): 07/06/19
Observer: JYB
Monthly/Seasonal
Linear Transect Width: 5 m



General Habitat Description:
grassy field



General Habitat Description:
field

VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island Wp Project #: 21218 Turbine #: 536

Photo Numbers (from turbine base)
 Facing North: 2560
 Facing East: 2561
 Facing South: 2562
 Facing West: 2563
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 08/07/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 5 m

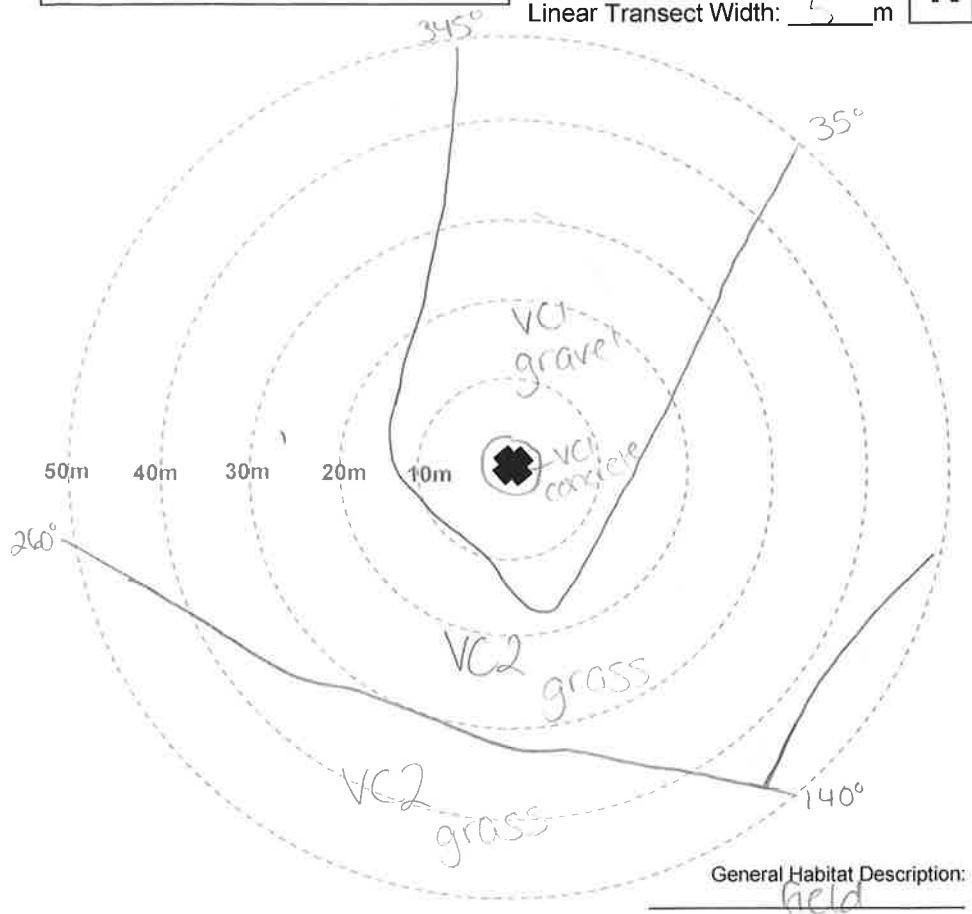
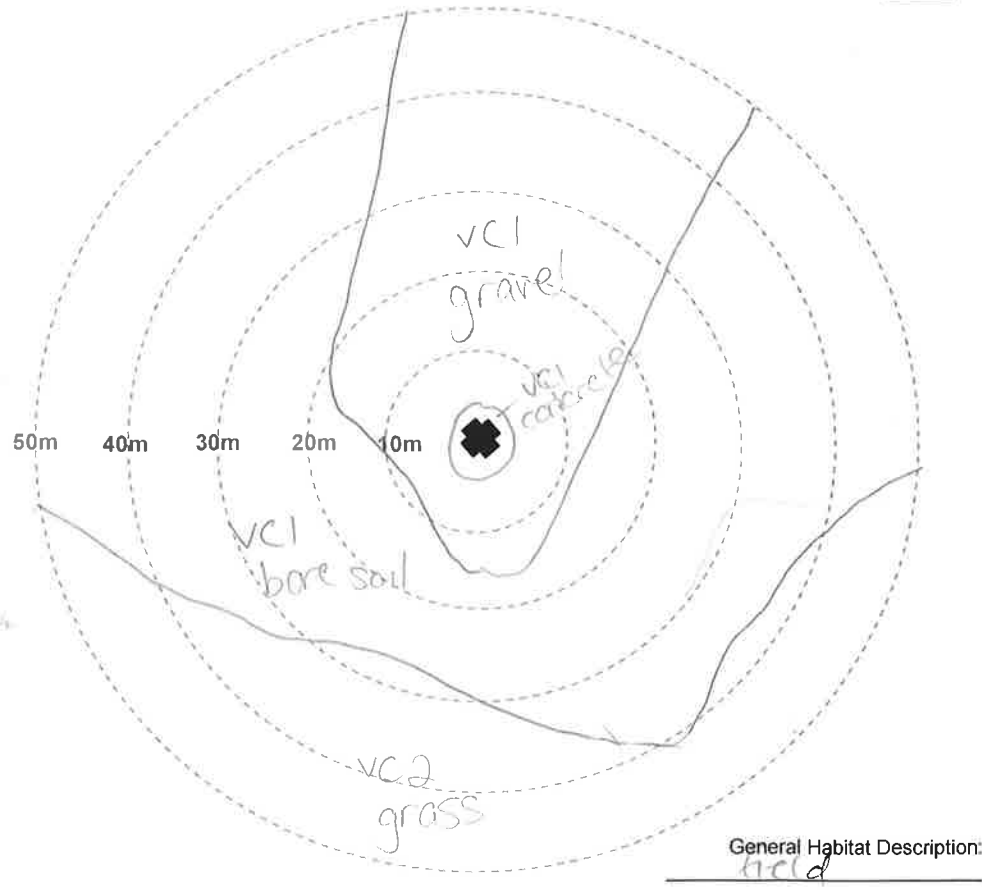


Photo Numbers (from turbine base)
 Facing North: 2750
 Facing East: 2751
 Facing South: 2752
 Facing West: 2753
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 08/08/19
 Observer: JYB
 Monthly/Seasonal
 Linear Transect Width: 5 m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island IWP Project #: 21218 Turbine #: S36

Photo Numbers (from turbine base)
 Facing North: 90925
 Facing East: 90926
 Facing South: 90927
 Facing West: 90928
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 09/09/19
 Observer: JMB
 Monthly/Seasonal
 Linear Transect Width: 5 m

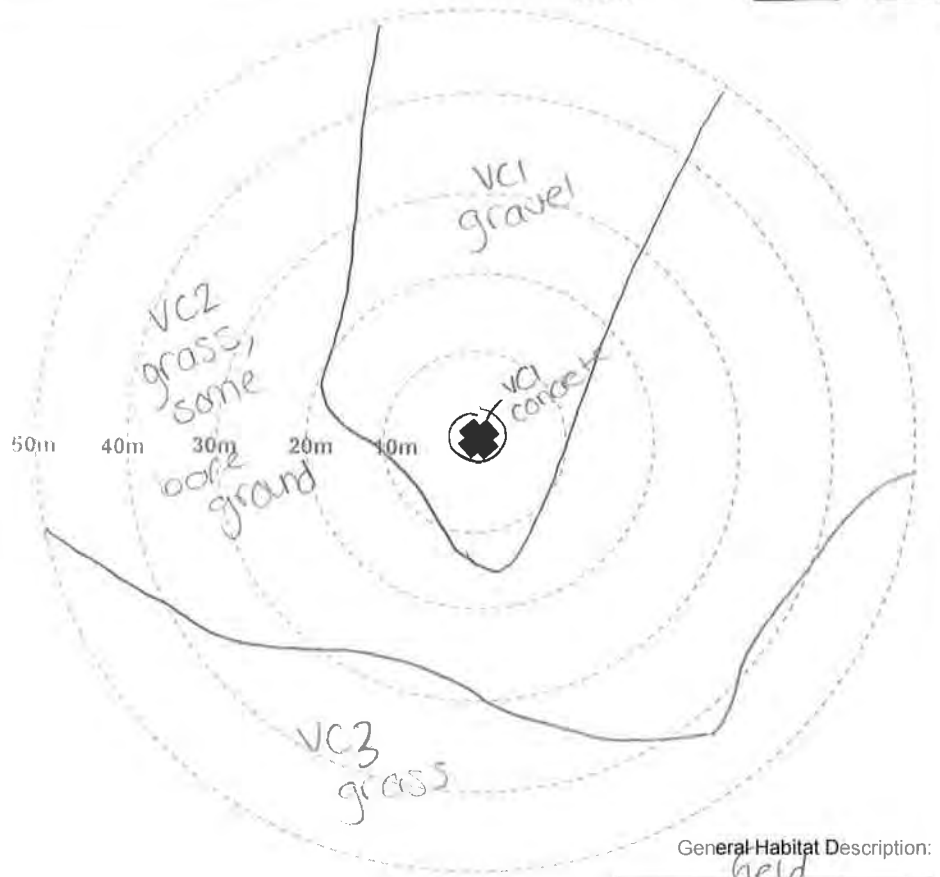
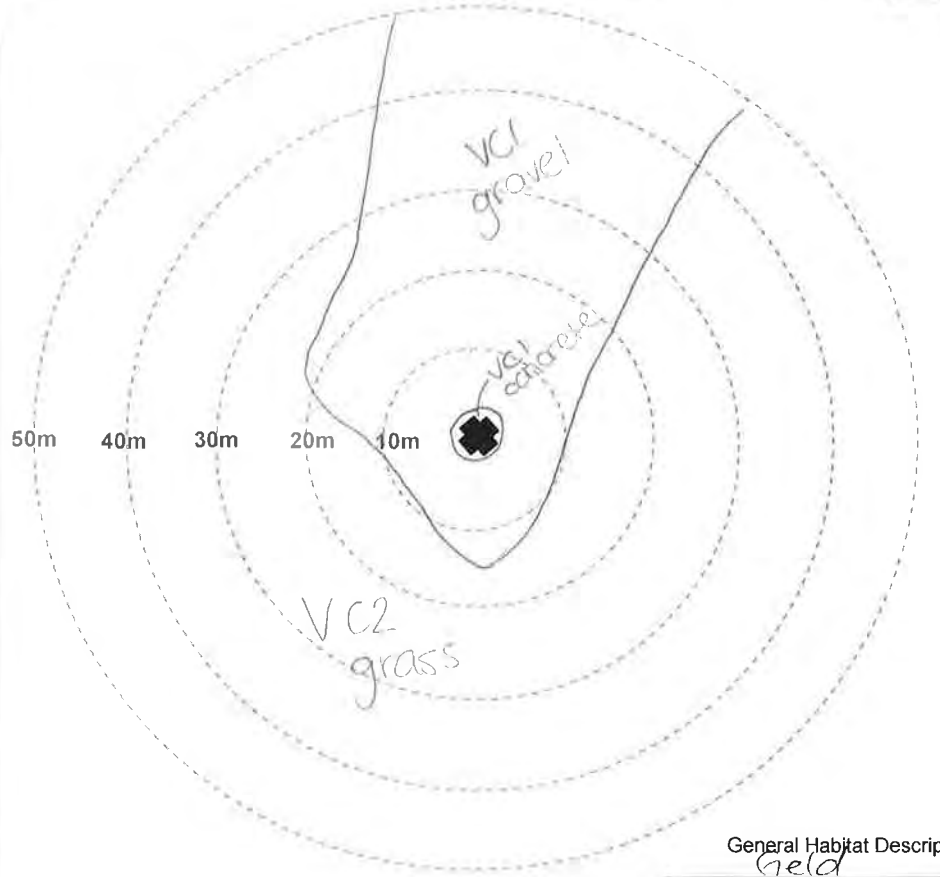


Photo Numbers (from turbine base)
 Facing North: 102419
 Facing East: 102420
 Facing South: 102421
 Facing West: 102422
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 27/10/19
 Observer: JMB
 Monthly/Seasonal
 Linear Transect Width: 5 m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

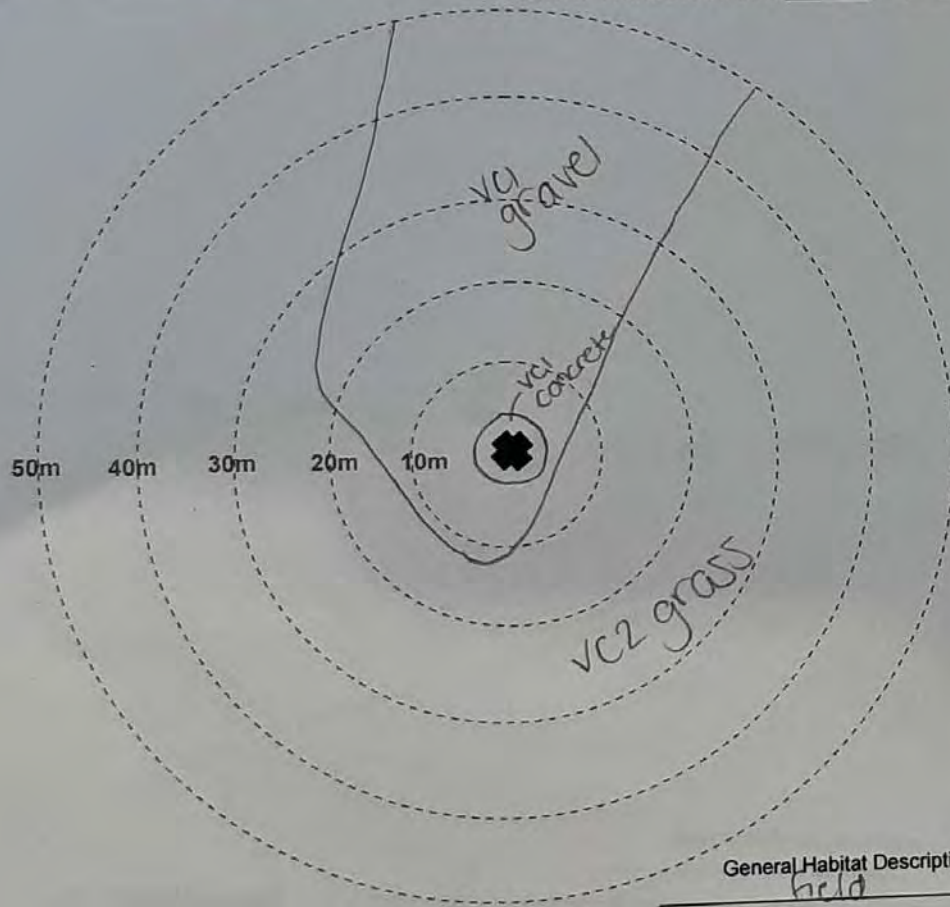
Project Name: Amherst Island WP Project #: 2121B Turbine #: 336

Photo Numbers (from turbine base)
 Facing North: 231249
 Facing East: 231250
 Facing South: 231251
 Facing West: 231252
 (sketch habitat and visibility classes)

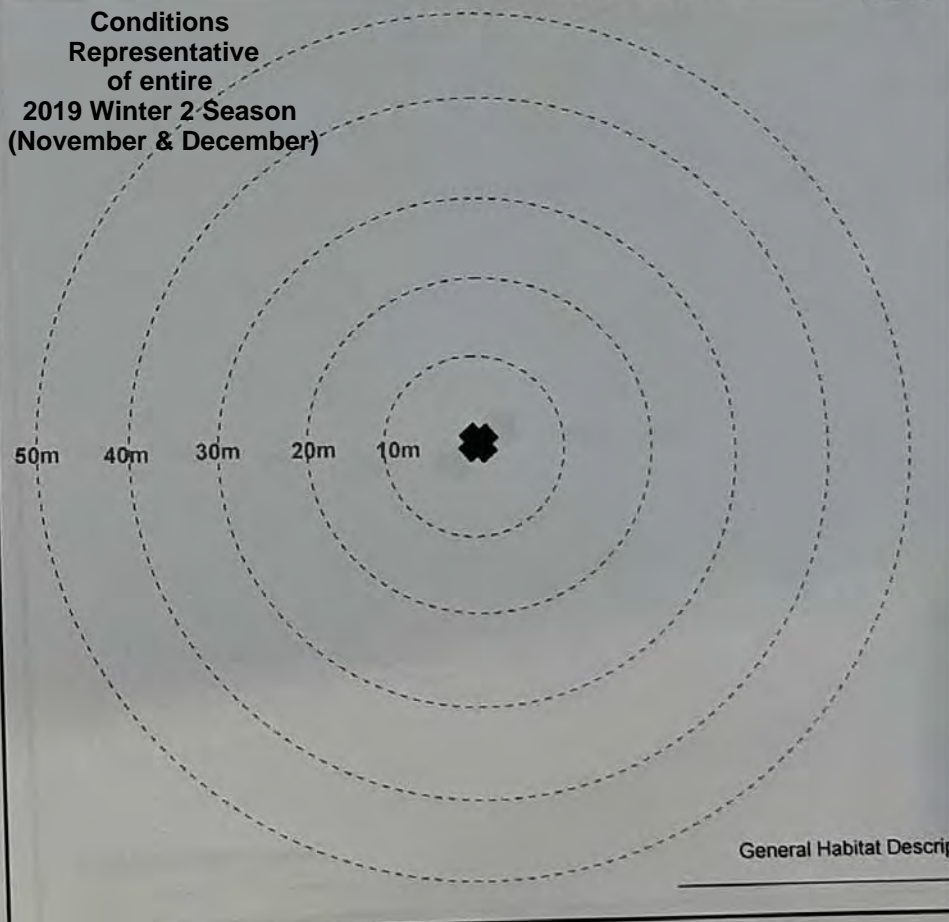
Date (DD/MM/YY): 23/12/19
 Observer: J4B
 Monthly/Seasonal
 Linear Transect Width: 5 m

Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



Conditions
 Representative
 of entire
 2019 Winter 2 Season
 (November & December)



VISIBILITY CLASSES

Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121A Turbine #: 537 Degree of Slope _____ degrees Slope Orientation _____ (e.g. SSW)

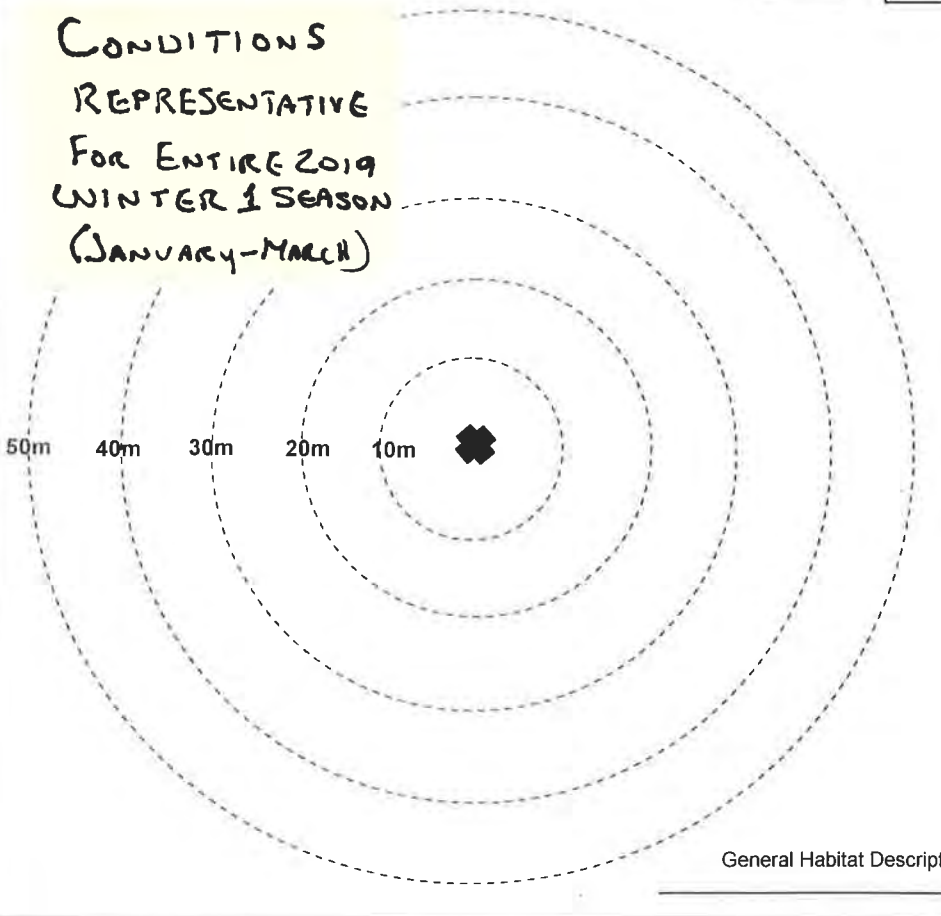
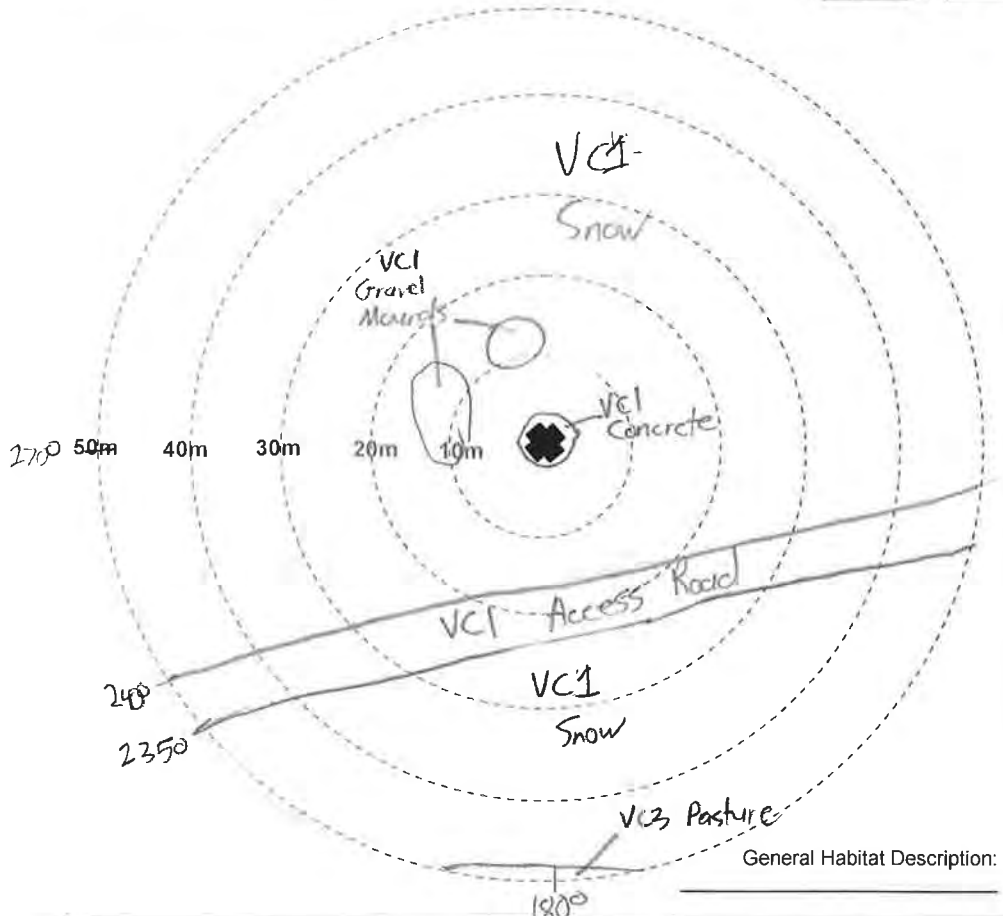
Photo Numbers (from turbine base)
 Facing North: 2799
 Facing East: 2800
 Facing South: 2801
 Facing West: 2802
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 14/02/19
 Observer: BAH
 Monthly/Seasonal
 Linear Transect Width: 5 m



Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): / /
 Observer: _____
 Monthly/Seasonal
 Linear Transect Width: _____ m



VISIBILITY CLASSES	
Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats

Visibility Class Map

Project Name: Amherst Island WP Project #: 2121B Turbine #: 537

Photo Numbers (from turbine base)
 Facing North: 231241
 Facing East: 231242
 Facing South: 231243
 Facing West: 231244
 (sketch habitat and visibility classes)

Date (DD/MM/YY): 23/12/19

Observer: JYB

Monthly/Seasonal
 Linear Transect Width: 5 m

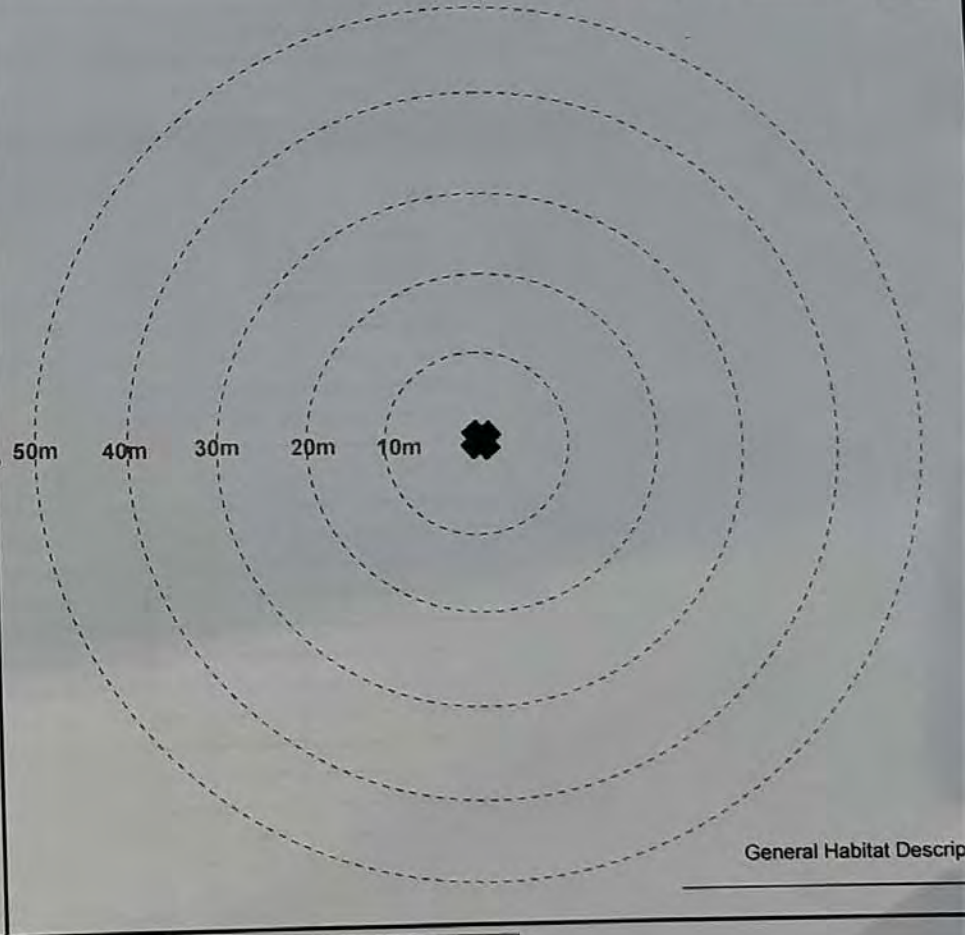
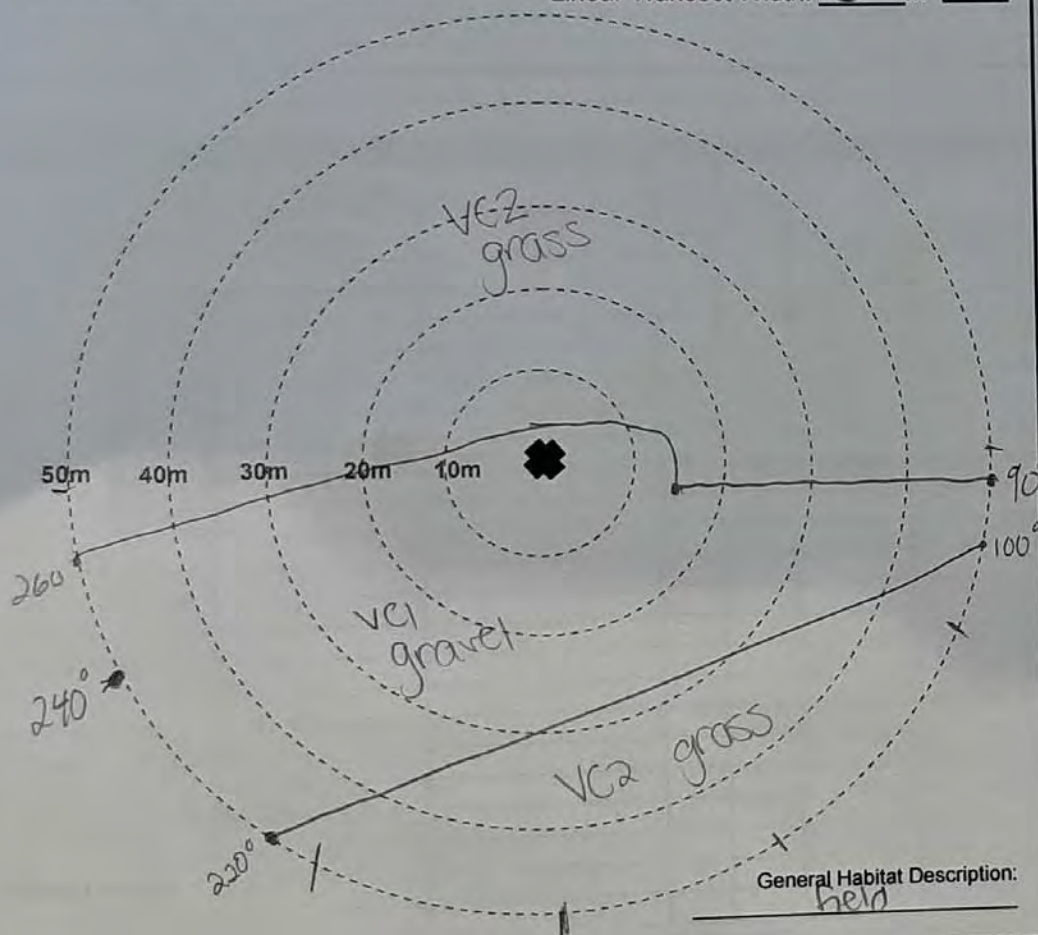


Photo Numbers (from turbine base)
 Facing North: _____
 Facing East: _____
 Facing South: _____
 Facing West: _____
 (sketch habitat and visibility classes)

Date (DD/MM/YY): ___/___/___

Observer: _____

Monthly/Seasonal
 Linear Transect Width: _____ m



VISIBILITY CLASSES

Class 1	≥ 90% bare ground; vegetation ≤ 15cm tall
Class 2	≥ 25% bare ground; vegetation ≤ 15cm tall
Class 3	≤ 25% bare ground; less than 25% of veg. > 30cm tall
Class 4	Little or no bare ground; more than 25% of veg. > 30cm tall
Not Searchable	Dense shrubs, woods, or other unsearchable habitats