

Appendix D

Michigan Natural Features Inventory Survey Forms

SPECIAL ANIMAL SURVEY FORM



SURVEYOR INFORMATION

Survey date: <u>2008-25-07</u>	Time from: <u>10:40</u> to: <u>11:05</u> am or pm (circle)	Sourcecode: F _____ MIUS
Surveyors (principal surveyor first, include first & last name): <u>ED SHADRICK AND JASON BRINKMAN</u>		
Weather conditions: <u>WARM, BREEZY, PARTLY CLOUDY</u>		
Revisit to this EO needed? <u>yes</u> <u>no</u> Why?: _____		

ELEMENT INFORMATION

Scientific name: <u>CHARADRIUS MELANOS</u>	Data sensitive? <u>(Y)</u> N	EOID: _____	Occ.# (if known): _____
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FILING

SURVEYSITE: _____	SITENAME: <u>ENRICO FERMI NUCLEAR GENERATING STATION</u>
QUADCODE: _____	QUADNAME: <u>STONY POINT, MI</u>

LOCATIONAL INFORMATION

Was the Landowner contacted? Yes <u>X</u> No _____ Landowner Name: <u>DETROIT EDISON COMPANY</u>	
Owner Type: <u>UTILITY</u>	Note: _____
DIRECTIONS: Provide detailed directions to the observation (rather than the survey site). Include landmarks, roads, towns, distances, compass directions. <u>FERMI DRIVE EAST TO LAKE ERIE SHORELINE, SLIGHTLY SOUTH TO NARROW BEACH</u>	
Township/Range/Section <u>T6S R10E S1/2 OF NW1/4 SECTION 21</u>	
County <u>MUNROE</u>	Managed area _____
Was GPS used? Yes _____ No <u>X</u>	Type of unit _____ Unit number _____
Waypoint name/# (when using Garmin) _____	File name (when using Trimble) _____
OPTIONAL: Latitude _____	Longitude _____
FEATURE INFORMATION (mandatory) Point: <12.5 m in both dimensions, Line: >12.5 m in one dimension, Polygon: >12.5m in both dimensions	
Source Feature: Single Source EO <u>X</u> Multi-Source EO _____	Conceptual Feature Type: Point _____ Line _____ Polygon _____

TOPOGRAPHIC MAP (mandatory)

1. Attach a photocopy of the appropriate part of a USGS topographic map (1:24,000 scale if available) and write the map scale on the photocopy. Please do NOT enlarge or reduce the map.
2. Indicate on the map the exact location of the observation(s):
 - a. When the observed area is **no larger than a pen point** on the map (i.e., only a small number of individuals or extremely small patches), place small points on the map indicating the location(s) of the individuals or patches, and label each point with an arrow so they are more easily seen.
 - b. When the observed area is **larger than a pen point** on the map, (e.g., a population of plants, foraging birds):
 - (1) Draw a thin solid boundary line showing the extent of the observed area occupied by the individuals.
 - (2) Indicate disjunct patches (polygons) by drawing the boundary for each patch separately.
 - (3) If the boundary follows the edge of a lake, stream, road, marsh or other feature, draw the boundary precisely on the edge of the feature.
- (4) Where needed, add notes to the map with instructions on where the boundary line is located or if the boundary is shared with other observations.
3. A hand drawn sketch may be included for finer details.

LOCATIONAL CERTAINTY

- Is your depiction of the observed area on the map within 6.25 m (approximately 20ft) of its actual location on the ground? (Y) N
- If N, complete the following:
- a. Estimate of uncertainty distance: based on landmarks, elevation, etc., the location of the observed area on the map is accurate to within _____ meters kilometers feet miles of its actual location on the ground.
 - b. Is the observed area known to be located within some feature(s) on the map (e.g., wetland boundary, lake, road, trail, highway, contour lines)? Y N
- If Y, indicate the boundary within which the observed area is known to be located on the map line, and if applicable, identify the feature (e.g., marsh).

CONDITION (continued)

HABITAT DESCRIPTION: Describe the specific habitat or micro habitat where this animal occurs. Convey a mental image of the habitat and its features including: land forms, aquatic features, vegetation, slope, aspect, soils, associated plant and animal species, natural disturbances.

NARROW (<30 FT) SANDY/GRAVEL BEACH BELOW ROCK RIPRAP ADJACENT TO POWER PLANT BUILDINGS.
LIKELY USED AS LAYOVER - NOT A RESIDENT SPECIES ON THE SITE.

LANDSCAPE CONDITION: Describe the condition of the landscape surrounding the elements habitat (i.e., farmland, residential area, pristine forest)

DISTURBED INDUSTRIAL SHORELINE

CURRENT THREATS to this occurrence (i.e., grazing, logging, mining, plantations, ATVs, dumping, etc.) Discuss exotics in the next section.

POTENTIAL THREATS to this occurrence:

EXOTICS PRESENT? ___yes ___no. If yes, describe their impacts to the occurrence.

PAST IMPACTS to the occurrence (i.e., logging, , etc.):

TOPOGRAPHY

Elevation: 571 ft.

If elevation is a range:

Minimum: _____ ft.

Maximum: _____ ft.

Aspect:

___N ___NE
___E ___NW
___S ___SE
___W ___SW

Slope:

___flat
___0-10
___10-35
___35+
___vertical

Light:

___open
___partial
___filtered
___shade

Position:

___crest
___upper slope
___mid slope
___lower slope
___bottom

Moisture:

___inundated
___saturated (wet-mesic)
___moist (mesic)
___dry-mesic
___dry (xeric)

MANAGEMENT AND PROTECTION

MANAGEMENT, MONITORING AND RESEARCH NEEDS for this occurrence (e.g. burn periodically, open the canopy, ensure water quality, control exotics, keep out the ATVs, study effects of browsing)

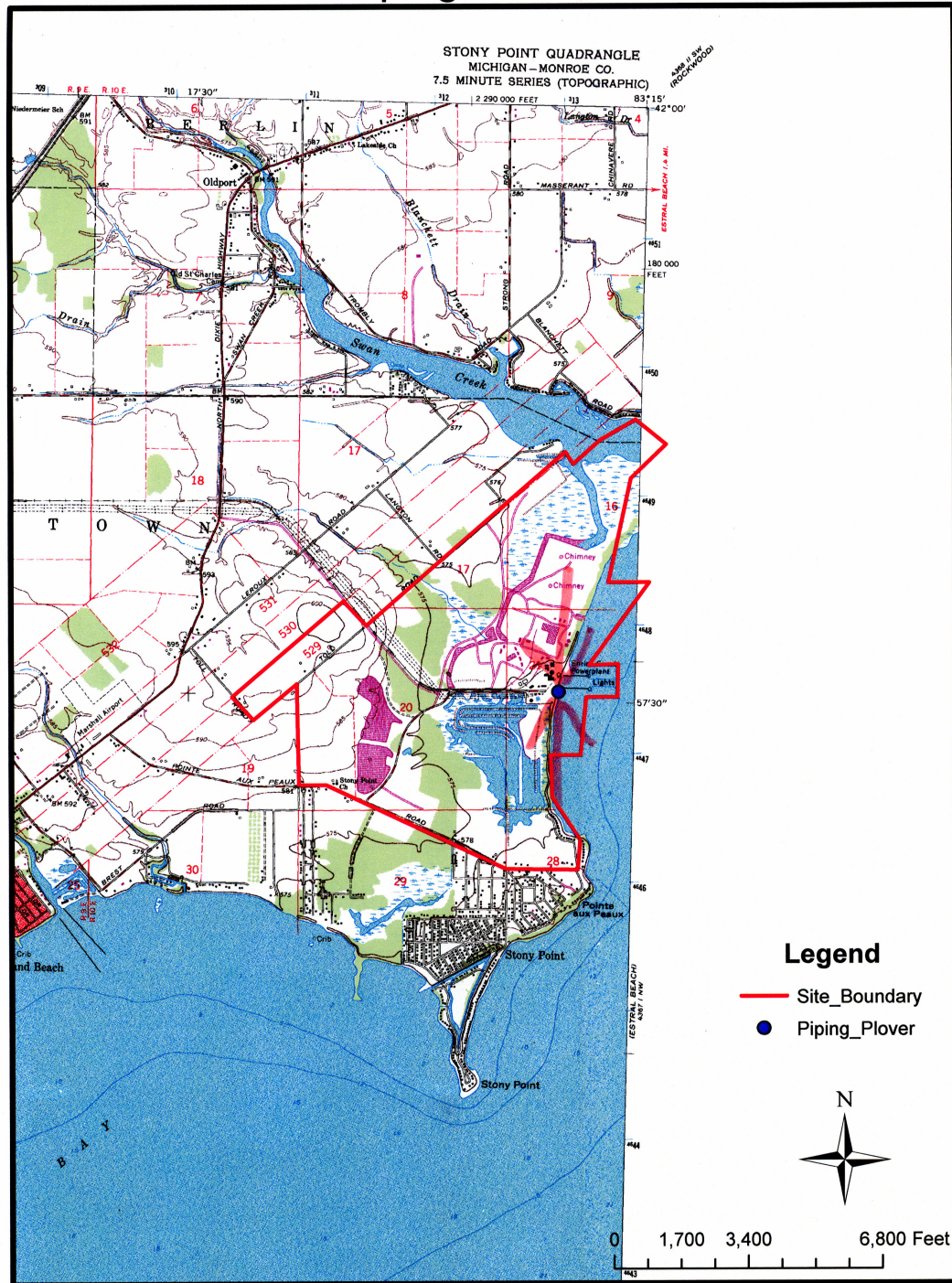
AREAS IN NEED OF PROTECTION: (e.g. the entire marsh, the slope and crest of slope, the fen and upland, etc.)

If you have any questions regarding this form and its methodology please contact MNFI at (517) 373-1552.

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Rev. 10/2003

Piping Plover



SPECIAL ANIMAL SURVEY FORM



SURVEYOR INFORMATION

Survey date: <u>2009-20-04</u>	Time from: <u>9:06</u> to: <u>9:35</u> (am or pm (circle))	Sourcecode: F _____ MIUS
Surveyors (principal surveyor first, include first & last name): <u>ED SHADOCK AND LAURA MCNEIL</u>		
Weather conditions: <u>COOL, FOGGY/DRIZZLE, LIGHT BREEZE</u>		
Revisit to this EO needed? <input type="checkbox"/> yes <input type="checkbox"/> no Why?: _____		

ELEMENT INFORMATION

Scientific name: <u>FALCO PERGRINUS</u>	Data sensitive? <input checked="" type="radio"/> Y <input type="radio"/> N	EOID: _____	Occ.# (if known): _____
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FILING

SURVEYSITE: _____	SITENAME: <u>ENRKO FERMI NUCLEAR GENERATING STATION</u>
QUADCODE: _____	QUADNAME: <u>STONY POINT, MI</u>

LOCATIONAL INFORMATION

Was the Landowner contacted? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Landowner Name: <u>DETROIT EDISON COMPANY</u>	
Owner Type: <u>UTILITY</u> Note: _____	
DIRECTIONS: Provide detailed directions to the observation (rather than the survey site). Include landmarks, roads, towns, distances, compass directions. <u>TAKE DOXY ROAD NORTH PAST SHOOTING RANGE TO BULLIT ROAD. BULLIT ROAD NORTH TO TERMINUS NEAR SWAN CREEK.</u>	
Township/Range/Section <u>T6S R10E NW1/4 SECTION 16</u>	
County <u>MONROE</u>	Managed area _____
Was GPS used? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Type of unit _____ Unit number _____
Waypoint name/# (when using Garmin) _____	File name (when using Trimble) _____
OPTIONAL: Latitude _____ Longitude _____	
FEATURE INFORMATION (mandatory) Point: <12.5 m in both dimensions, Line: >12.5 m in one dimension, Polygon: >12.5m in both dimensions	
Source Feature: Single Source EO <input checked="" type="checkbox"/> Multi-Source EO <input type="checkbox"/> Conceptual Feature Type: Point <input type="checkbox"/> Line <input type="checkbox"/> Polygon <input type="checkbox"/>	
TOPOGRAPHIC MAP (mandatory)	
1. Attach a photocopy of the appropriate part of a USGS topographic map (1:24,000 scale if available) and write the map scale on the photocopy. Please do NOT enlarge or reduce the map.	
2. Indicate on the map the exact location of the observation(s):	
a. When the observed area is no larger than a pen point on the map (i.e., only a small number of individuals or extremely small patches), place <u>small points</u> on the map indicating the location(s) of the individuals or patches, and label each point with an arrow so they are more easily seen.	
b. When the observed area is larger than a pen point on the map, (e.g., a population of plants, foraging birds):	
(1) Draw a <u>thin solid boundary line showing the extent of the observed area</u> occupied by the individuals.	
(2) Indicate disjunct patches (polygons) by drawing the boundary for each patch separately.	
(3) If the boundary follows the edge of a lake, stream, road, marsh or other feature, draw the boundary <u>precisely on the edge</u> of the feature.	
(4) Where needed, add notes to the map with instructions on where the boundary line is located or if the boundary is shared with other observations.	
3. A hand drawn sketch may be included for finer details.	
LOCATIONAL CERTAINTY	
Is your depiction of the observed area on the map within 6.25 m (approximately 20ft) of its actual location on the ground? <input checked="" type="radio"/> Y <input type="radio"/> N	
If N , complete the following:	
a. Estimate of uncertainty distance: based on landmarks, elevation, etc., the location of the observed area on the map is accurate to within _____ meters kilometers feet miles of its actual location on the ground.	
b. Is the observed area known to be located within some feature(s) on the map (e.g., wetland boundary, lake, road, trail, highway, contour lines)? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
If Y, indicate the boundary within which the observed area is known to be located on the map line, and if applicable, identify the feature (e.g., marsh).	

CONDITION (continued)

HABITAT DESCRIPTION: Describe the specific habitat or micro habitat where this animal occurs. Convey a mental image of the habitat and its features including: land forms, aquatic features, vegetation, slope, aspect, soils, associated plant and animal species, natural disturbances.

OBSERVED ONE INDIVIDUAL IN FLIGHT OVER SWAN CREEK, MOVING EAST TO WEST

LANDSCAPE CONDITION: Describe the condition of the landscape surrounding the elements habitat (i.e., farmland, residential area, pristine forest)

LARGE STREAM WITH EMERGENT AND RIPARIAN WETLAND, INCLUDING FORESTED SHORELINE AND SUBURBAN DEVELOPMENT (SOUTHERN AND NORTHERN SHORES)

CURRENT THREATS to this occurrence (i.e., grazing, logging, mining, plantations, ATVs, dumping, etc.) Discuss exotics in the next section.

POTENTIAL THREATS to this occurrence:

EXOTICS PRESENT? ___yes ___no. If yes, describe their impacts to the occurrence.

PAST IMPACTS to the occurrence (i.e., logging, , etc.):

TOPOGRAPHY

Elevation: 572 ft.

If elevation is a range:

Minimum: _____ ft.

Maximum: _____ ft.

Aspect:

___ N ___ NE

___ E ___ NW

___ S ___ SE

___ W ___ SW

Slope:

___ flat

___ 0-10

___ 10-35

___ 35+

___ vertical

Light:

___ open

___ partial

___ filtered

___ shade

Position:

___ crest

___ upper slope

___ mid slope

___ lower slope

___ bottom

Moisture:

___ Inundated

___ saturated (wet-mesic)

___ moist (mesic)

___ dry-mesic

___ dry (xeric)

MANAGEMENT AND PROTECTION

MANAGEMENT, MONITORING AND RESEARCH NEEDS for this occurrence (e.g. burn periodically, open the canopy, ensure water quality, control exotics, keep out the ATVs, study effects of browsing)

AREAS IN NEED OF PROTECTION: (e.g. the entire marsh, the slope and crest of slope, the fen and upland, etc.)

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