

SPECIAL ANIMAL SURVEY FORM



SURVEYOR INFORMATION

Survey date: <u>2009-21-01</u>	Time from: <u>9:33</u> to: <u>9:47</u> (am) or pm (circle)	Sourcecode: F _____ MIUS
Surveyors (principal surveyor first, include first & last name): <u>ED SHADROK AND LAURA MCNEIL</u>		
Weather conditions: <u>FAIR, COLD, CALM, PARTLY CLOUDY</u>		
Revisit to this EO needed? <input type="checkbox"/> yes <input type="checkbox"/> no Why?: _____		

ELEMENT INFORMATION

Scientific name: <u>FALCO PEREGRINUS</u>	Data sensitive? <input checked="" type="checkbox"/> Y <input type="checkbox"/> 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 No _____ Landowner Name: DETROIT EDISON COMPANY

Owner Type: UTILITY Note: _____

DIRECTIONS: Provide detailed directions to the observation (rather than the survey site). Include landmarks, roads, towns, distances, compass directions.
FERMI DRIVE EAST TO FERMI 2 SWITCH YARD (EAST OF VISITOR'S CENTER BUILDING)

Township/Range/Section T6SR10E SW1/4 SECTION 21

County MONROE Managed area _____

Was GPS used? Yes _____ No X 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 X Multi-Source EO _____ Conceptual Feature Type: Point _____ Line _____ Polygon _____

TOPOGRAPHIC MAP (mandatory)

- 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.
- Indicate on the map the exact location of the observation(s):
 - 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.
 - When the observed area is **larger than a pen point** on the map, (e.g., a population of plants, foraging birds):
 - Draw a **thin solid boundary line showing the extent of the observed area** occupied by the individuals.
 - Indicate disjunct patches (polygons) by drawing the boundary for each patch separately.
 - 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.
 - 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.
- 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:

- 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.
- 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).

IDENTIFICATION
 Photograph/slide taken? yes no If yes, will a copy be submitted to Heritage? yes no MNFI office: Added to collection? (check)
 Specimen collected? yes no Collection # and repository: _____
 Identification problems? yes no If necessary, describe the important animal characteristics you used for identification: _____

SIZE OF ELEMENT OCCURRENCE
 Size is a quantitative measure of the area and/or abundance of an occurrence. Components of this factor are 1) area of occupancy, 2) population abundance, 3) population density and 4) population fluctuation.
 Type of observation: sight song/vocalization road kill trapped other (explain): _____
 Abundance (number of pairs, chicks, nests, adults, juveniles, hatchlings, behavior, sex, size of each individual, etc.):
 Actual number observed: _____

 Number estimated and basis for estimate: _____

 Population density (if practical): number: _____ per area unit: _____ (i.e., meters², kilometers², miles², etc.)
 Does population fluctuate? (May be particularly relevant to invertebrates):
 yes no unknown. Explain: _____
 Area of occupancy (fill in one): _____ meters _____ acres _____ miles Type of measurement (check one): Precise Estimate

ASSOCIATED SPECIES
 List other species observed at this site. Note especially listed species and potential competitors, predators, and prey. Mark appropriate columns.

Species	+	ID	?	Number Observed	Notes, observations, etc.
REFER TO THE "FERMI TERRESTRIAL WILDLIFE SURVEY FINAL REPORT"					
ATTACHED					

CONDITION:
 Condition is an integrated measure of the quality of biotic and abiotic factors, structures and processes within the occurrence, and the degree to which they affect the continued existence of the occurrence. Components of condition for species are: 1) reproduction and health, 2) ecological processes, 3) species composition and biological structure, 4) abiotic physical/chemical factors. Factors to consider: evidence of regular successful reproduction, habitat degradation, disturbance, presence of exotic species, the degree to which ecological processes are sustaining the habitat. Where possible include a comparison to other occurrences.
 EVIDENCE OF REPRODUCTION: _____

 EVIDENCE OF DISEASE/PREDATION: _____

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.

OBSERVATION OF ONE INDIVIDUAL IN FLIGHT. AREA OF OBSERVATION WAS A ELECTRICAL TRANSMISSION SWITCHYARD AND BUILDINGS ASSOCIATED WITH A NUCLEAR POWER PLANT.

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

ELECTRIC UTILITY

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: 575 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

Peregrine Falcon

