MICHIGAN STATE UNIVERSITY EXTENSION

SPECIAL ANIMAL SURVEY FORM

Michigan Natural Features Inventory

SURVEYOR INFORMATION

Survey date: 2009-22-04   Time from: 14:12 to: 14:34 am or pm (circle)   Sourcecode: F _ _ _ _ _ _ _ M I U S

Surveyors (principal surveyor first, include first & last name): ED SHADRICK AND LAURA MCNEIL

Weather conditions: FAIR, BREEZY, PARTLY CLOUDY, COOL

Revisit to this EO needed? ___yes ___no Why?: _____

ELEMENT INFORMATION

Scientific name: STERNA HIRUNDO   Data sensitive? (Y) N   EOID: Occ.# (if known):

FILING

| SURVEYSITE: | SITENAME: ENRICO FERMI NUCLEAR GENERATING STATION |
| QUADCODE: | QUADNAME: STONY POINT, MI |

LOCATIONAL INFORMATION

Was the Landowner contacted? Yes X No _____   Landowner Name: DETROIT EDISON COMPANY

Owner Type: UTILITY   Note: SITE INCLUDES LAGOONA BEACH UNIT OF DETROIT RIVER INTERNATIONAL WILDLIFE REFUGE

DIRECTIONS: Provide detailed directions to the observation (rather than the survey site). Include landmarks, roads, towns, distances, compass directions.

FERMI DRIVE EAST TO LAKEFRONT, SLIGHTLY NORTH TO TWO GROINS.

Township/Range/Section T6S R10E SE 1/4 of NW 1/4 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 X 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).

IDENTIFICATION
Photograph/slide taken? ___yes X no If yes, will a copy be submitted to Heritage? ___yes ___no MNFI office: Added to collection?____ (check)

Specimen collected? ___yes X no Collection # and repository: _____

Identification problems? ___yes X 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: X 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: _TWO OBSERVED. ONE AT LOCATION NOTED, A SECOND IN FLIGHT OVER A DREDGE DISPOSAL_
_FACILITY NEAR BOOMERANG RD. ABOUT 2000 FT SOUTHWEST_____

Number estimated and basis for estimate: _2 BIRDS OBSERVED_____

Population density (if practical): number:_____ per area unit:_____ (i.e., meters^2, kilometers^2, miles^2, 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 appropiate columns.

Species	ID +	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 <u>where this animal occurs</u>. 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.

LAKE ERIE COASTAL AREA ADJACENT TO POWER PLANT.

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

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

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: 57 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 ATV's, 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.
P:\nfi\field forms\special_animal_form.doc
Rev. 10/2003

Common Tern

Legend

—— Site_Boundary

⊙ Common_Tern