



INDIANA DEPARTMENT OF NATURAL RESOURCES

PATRICK R. RALSTON, DIRECTOR

Division of Nature Preserves  
605 B State Office Building  
Indianapolis, Indiana 46204  
317-232-4032

June 13, 1991

Mary Tierney  
Ecology and Environment, Inc.  
111 West Jackson Blvd.  
Chicago, IL 60604

EPA Region 5 Records Ctr.



256199

Dear Ms. Tierney:

I am responding to your request for information on the endangered, threatened, or rare (ETR) species and high quality natural communities and natural areas documented within a 2 mile radius of the USS Lead site in East Chicago, Indiana (Section 33, Township 37 North, Range 9 West). The Indiana Natural Heritage Program's databank has been checked and enclosed you will find a list of sensitive areas and rare species' locations.

The sites listed as natural areas are all privately owned, and therefore unprotected, unless otherwise noted. The areas identified by the Coastal Zone Management Study have "CZM" after the name. All areas listed as nature preserves are dedicated by the state, and as such, are afforded legal protection. The bird records are nesting records, unless otherwise specified. Each area listed has been identified as an important area for nesting and migrating birds, as well as for significant natural communities. I have included a map for the sites.

The information I am providing does not preclude the requirement for further consultation with the U.S. Fish and Wildlife Service as required under Section 7 of the Endangered Species Act of 1973. You should contact the Service at their Bloomington, Indiana office.

U.S. Fish and Wildlife Service  
718 North Walnut  
Bloomington, Indiana 47401  
(812)334-4261

At some point, you may need to contact the Department of Natural Resources' Environmental Review Coordinator so that other divisions within the department have the opportunity to review your proposal. For more information, please contact:

Mary Tierney

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June 13, 1991

Patrick R. Ralston, Director  
Department of Natural Resources  
attn: Steve Jose  
Environmental Review Coordinator  
402 W. Washington Street, Room 271  
Indianapolis, IN 46204  
(317)232-4070

Please note that the Indiana Natural Heritage Program relies on the observations of many individuals for our data. In most cases, the information is not the result of comprehensive field surveys conducted at particular sites. Therefore, our statement that there are no documented significant natural features at a site should not be interpreted to mean that the site does not support special plants or animals.

Due to the dynamic nature and sensitivity of the data, this information should not be used for any project other than that for which it was originally intended. It may be necessary for you to request updated material from us in order to base your planning decisions on the most current information.

I have enclosed an invoice for \$60.00 to cover the cost of the request.

Thank you for contacting the Indiana Natural Heritage Program. You may reach me at (317)232-4052 if you have any questions or need additional information.

Sincerely,



Michelle L. Martin  
Indiana Natural Heritage Program

enclosures: invoice  
data sheet  
maps (2)

Highland Quad

RIVER

INDIANA (EAST WEST)  
SOUTH BEND  
TIC  
Ivanhoe Dr's  
Cline Avenue Natural Area

basement  
Cline Ave  
Natural Area

Area  
Dupont?  
Tolleston Ridge's  
Nature Preserve  
Shell Preserve  
Oil Dr's  
Kilgus

Green Woods  
Nature Preserve  
Gibson Woods  
Hickman Dr's

GARY

M. F. T

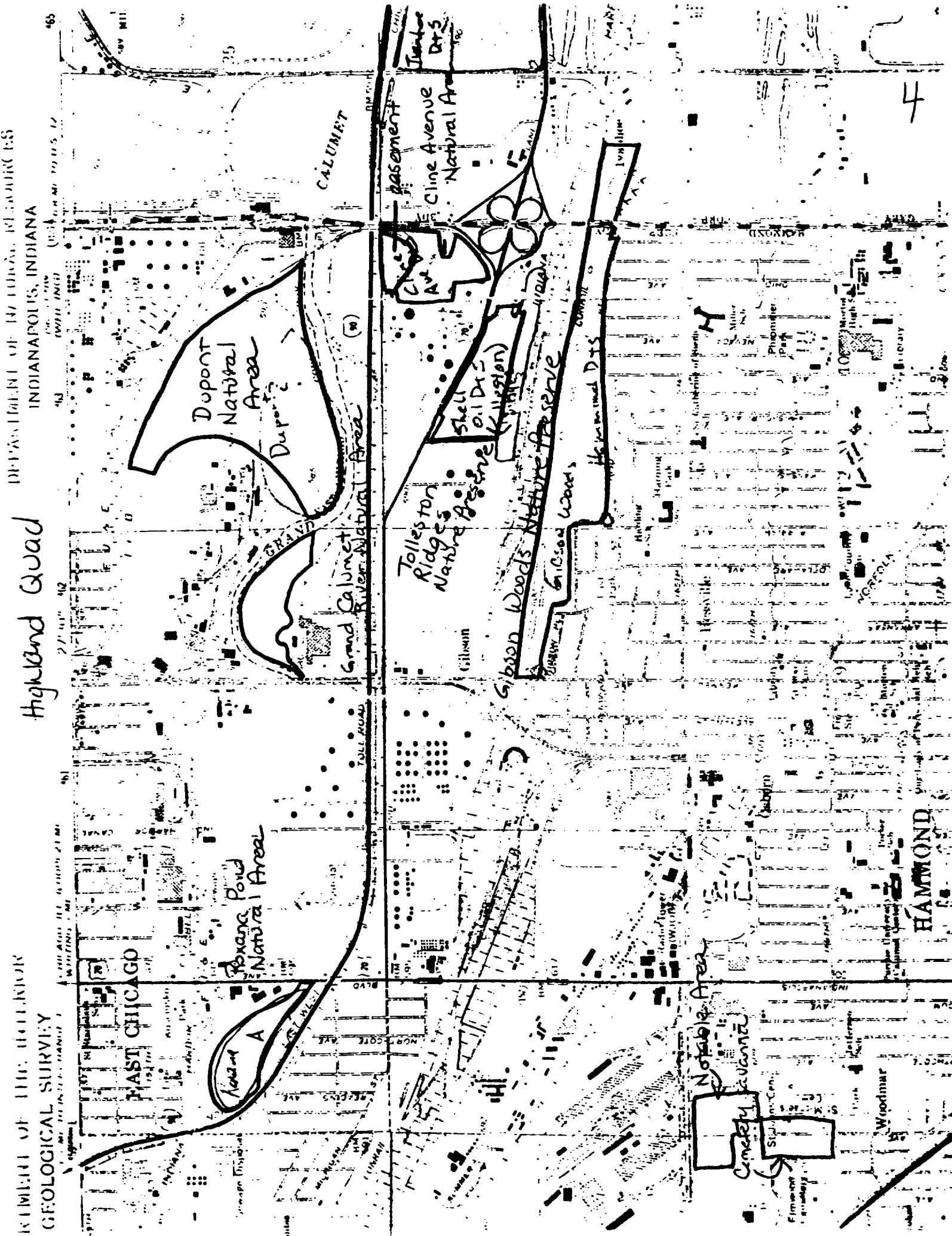
CAL

STADON

EASTERN

WESTERN





Highland Quad

STATEMENT OF THE GEOLOGICAL SURVEY

12 JUN 1991

ENDANGERED, THREATENED, AND RARE SPECIES AND HIGH QUALITY  
 NATURAL COMMUNITIES AND NATURAL AREAS DOCUMENTED WITHIN  
 A TWO MILE RADIUS OF THE USS LEAD SITE IN EAST CHICAGO, INDIANA  
 (\*=water oriented species)

| Species Name.....   | Common Name.....       | State |          | Fed      |                         | Date... |
|---|------------------------|-------|----------|----------|-------------------------|---------|
|   |                        | Stat  | Stat     | Co-range | Sec                     |         |
| <b>HIGHLAND QUADRANGLE</b>  |                        |       |          |          |                         |         |
| BAPTISIA TINCTORIA  | YELLOW WILD-INDIGO     | SR    | 035N009W | 04       |                         | ?       |
| COMPTONIA PERESKINA   | SWEET FERN             | SR    | 036N009W | 07       | SEQ along RR            | 1986-06 |
| PRAIRIE - SAND DRY-MESIC  | DRY-MESIC SAND PRAIRIE |       | 036N009W | 07       | SEQ along RR            | 1981-08 |
| *NECTURUS MACULOSUS   | MUDPUDDY               | SSC   | C2       | 036N009W | 11 NWQ                  | 1986-07 |
| <u>CEMETERY SAVANNA NATURAL AREA: (CZM)</u>   |                        |       |          |          |                         |         |
| SAVANNA - SAND DRY-MESIC  | DRY-MESIC SAND SAVANNA |       | 035N009W | 08       | SWD NWQ &<br>SEQ NEQ S7 | 1981-10 |
| <u>NOTABLE AREA:</u>  |                        |       |          |          |                         |         |
| SAVANNA - SAND DRY-MESIC  | DRY-MESIC SAND SAVANNA |       | 035N009W | 07       | NEQ NEQ & 08 NWQ NWQ    |         |
| <u>CLINE AVENUE NATURAL AREA (WITH DEPARTMENT OF NATURAL RESOURCES EASEMENT): (CZM)</u> |                        |       |          |          |                         |         |
| BETULA PAPYRIFERA   | PAPER BIRCH            | SR    | 035N009W | 03       | NEQ NEQ                 | 1978-08 |
| HYPERICUM KALMIANUM   | KALM ST. JOHN'S-WORT   | SR    | 036N009W | 03       | NEQ NEQ                 | 1978-07 |
| PLATANthera FLAVA VAR HERBIOLA  | PALE GREEN ORCHIS      | SR    | 036N009W | 03       | NEQ NEQ                 | 1978-08 |
| SAVANNA - SAND DRY-MESIC  | DRY-MESIC SAND SAVANNA |       | 036N009W | 03       | NEQ NEQ                 | 1989-07 |
| WETLAND - SWAMP SHRUB   | SHRUB SWAMP            |       | 036N009W | 03       | NEQ NEQ                 | 1989-07 |
| PRAIRIE - SAND DRY-MESIC  | DRY-MESIC SAND PRAIRIE |       | 036N009W | 03       | NEQ NEQ                 | 1989-07 |
| <u>DUPONT NATURAL AREA: (CZM)</u>   |                        |       |          |          |                         |         |
| PRAIRIE - SAND DRY-MESIC  | DRY-MESIC SAND PRAIRIE |       | 037N009W | 34       |                         | 1990-07 |
| PRAIRIE - SAND WET-MESIC  | WET-MESIC SAND PRAIRIE |       | 037N009W | 34       |                         | 1990-07 |
| *RALLUS ELEGANS   | KING RAIL              | SE    | 037N009W | 34       |                         | 1974-05 |
| -no nesting reported  |                        |       |          |          |                         |         |
| SAVANNA - SAND DRY  | DRY SAND SAVANNA       |       | 037N009W | 34       |                         | 1990-07 |
| WETLAND - MARSH   | MARSH                  |       | 037N009W | 34       |                         | 1990-07 |
| WETLAND - MEADOW SEDGE  | SEEDGE MEADOW          |       | 037N009W | 34       |                         | 1990-07 |
| *IXOBRYCHUS EXILIS  | LEAST BITTERN          | SSC   | 037N009W | 35       |                         | 1986-07 |
| <u>GRAND CALUMET RIVER NATURAL AREA:</u>  |                        |       |          |          |                         |         |
| *CASMERODIUS ALBUS  | GREAT EGRET            | SE    | 037N009W | 33       | NEQ SEQ                 | 1988-06 |
| -no nesting reported  |                        |       |          |          |                         |         |
| *CHLIDONIAS NIGER   | BLACK TERN             | SE    | 037N009W | 33       | N 1/2 SEQ               | 1987-07 |
| -nesting colony   |                        |       |          |          |                         |         |
| *CISTOTHORUS PALUSTRIS  | MARSH WREN             | SSC   | 037N009W | 33       | SEQ                     | 1987-06 |
| -probable nester  |                        |       |          |          |                         |         |

STATE: SX=extirpated, SE=endangered, ST=threatened, SR=rare, SSC=special concern  
 FEDERAL: LE=endangered, LT=threatened, C2=under review, may warrant listing, 3C=delisted

12 JUN 1991

ENDANGERED, THREATENED, AND RARE SPECIES AND HIGH QUALITY  
NATURAL COMMUNITIES AND NATURAL AREAS DOCUMENTED WITHIN  
A TWO MILE RADIUS OF THE USS LEAD SITE IN EAST CHICAGO, INDIANA  
(\*water oriented species)

| Species Name.....  | Common Name.....             | State | Fed | Stat     | Stat | Town             | range | Sec | ..... | Date... |
|--|------------------------------|-------|-----|----------|------|------------------|-------|-----|-------|---------|
| <u>IVANHOE NAT. PAL. AREA (OWNED BY THE NATURE CONSERVANCY): (CZM)</u> |                              |       |     |          |      |                  |       |     |       |         |
| BETULA Papyrifera  | PAPER BIRCH                  | SR    |     | 036N009W | 02   | NEQ              |       |     |       | 1978-07 |
| Geomys bursarius   | PLAINS POCKET GOPHER         | SSC   |     | 036N009W | 02   | WH NEQ           |       |     |       | 1984-   |
| Lycaides melissa samuelis  | KARNER BLUE BUTTERFLY        | SE    | C2  | 036N009W | 02   | W1/2 NEQ         |       |     |       | 1990-06 |
| PRAIRIE - SAND DRY-MESIC   | DRY-MESIC SAND PRAIRIE       |       |     | 036N009W | 02   | NEQ              |       |     |       | 1990-07 |
| PRAIRIE - SAND WET   | WET SAND PRAIRIE             |       |     | 036N009W | 02   | NEQ              |       |     |       | 1990-07 |
| SAVANNA - SAND DRY-MESIC   | DRY-MESIC SAND SAVANNA       |       |     | 036N009W | 02   | NEQ              |       |     |       | 1990-07 |
| WETLAND - MARSH  | MARSH                        |       |     | 036N009W | 02   | NEQ              |       |     |       | 1990-07 |
| WETLAND - SWAMP SHRUB  | SHRUB SWAMP                  |       |     | 036N009W | 02   | NEQ              |       |     |       | 1990-07 |
| <u>ROXANA POND NATURAL AREA:</u>                                       |                              |       |     |          |      |                  |       |     |       |         |
| *IXOBRYCHUS EXILIS   | LEAST BITTERN                | SSC   |     | 036N009W | 32   |                  |       |     |       | 1984-06 |
| -probable nester   |                              |       |     |          |      |                  |       |     |       |         |
| *XANTHOCEPHALUS XANTHOCEPHALUS   | YELLOW-HEADED BLACKBIRD      | SE    |     | 036N009W | 32   |                  |       |     |       | 1984-06 |
| -probable nester   |                              |       |     |          |      |                  |       |     |       |         |
| *CHLIDONIAS NIGER  | BLACK TERN                   | SE    |     | 037N009W | 32   | SWQ              |       |     |       | 1989-06 |
| -last reported nesting in 1981   |                              |       |     |          |      |                  |       |     |       |         |
| *CISTOTHORUS PALUSTRIS   | MARSH WREN                   | SSC   |     | 037N009W | 32   | SWQ              |       |     |       | 1985-07 |
| -probable nester   |                              |       |     |          |      |                  |       |     |       |         |
| *NYCTICORAX NYCTICORAX   | BLACK-CROWNED NIGHT-HERON    | SE    |     | 037N009W | 32   | SWQ              |       |     |       | 1986-06 |
| *RANA PIPIENS  | NORTHERN LEOPARD FROG        | SSC   |     | 037N009W | 32   | SWQ              |       |     |       | 1984-   |
| SPERMOPHILLUS FRANKLINII   | FRANKLIN'S GROUND SQUIRREL   | ST    |     | 037N009W | 32   | NEQ SWQ          |       |     |       | 1985-07 |
| <u>GIBSON WOODS NATURE PRESERVE: (CZM)</u>                             |                              |       |     |          |      |                  |       |     |       |         |
| CAREX ALUEA  | GOLDEN-FRUITED SEDGE         | ST    |     | 036N009W | 03   | SWQ; & SWQ S2;   |       |     |       | 1978-01 |
|  |                              |       |     |          |      | & E 1/4 S4       |       |     |       |         |
| PRUNUS PENSYLVANICA  | FIRE CHERRY                  | SR    |     | 036N009W | 03   | SWQ NEQ SEQ      |       |     |       | 1989-05 |
| SPERMOPHILLUS FRANKLINII   | FRANKLIN'S GROUND SQUIRREL   | ST    |     | 036N009W | 03   | PLUS S2, 4, 11   |       |     |       | 1986-05 |
| PRAIRIE - SAND WET-MESIC   | WET-MESIC SAND PRAIRIE       |       |     | 036N009W | 02   | SWQ (+ S3 & S4)  |       |     |       | 1990-07 |
| SAVANNA - SAND DRY-MESIC   | DRY-MESIC SAND SAVANNA       |       |     | 036N009W | 02   | SWQ & S3 & S4    |       |     |       | 1990-07 |
| BAPTISIA LEUCOPHAEA  | CREAM WILD-INDIGO            | SR    |     | 036N009W | 03   |                  |       |     |       | 1986-   |
| BETULA Papyrifera  | PAPER BIRCH                  | SR    |     | 036N009W | 03   | SWQ              |       |     |       | 1986-06 |
| FOREST - FLOODPLAIN WET-MESIC  | WET-MESIC FLOODPLAIN FOREST  |       |     | 036N009W | 03   |                  |       |     |       | 1990-07 |
| HYPERICUM KALMIANUM  | KALM ST. JOHN'S-WORT         | SR    |     | 036N009W | 03   | SWQ              |       |     |       | 1978-07 |
| *IXOBRYCHUS EXILIS   | LEAST BITTERN                | SSC   |     | 036N009W | 03   | SEQ              |       |     |       | 1985-07 |
| -no nesting reported   |                              |       |     |          |      |                  |       |     |       |         |
| OPHISAURUS ATTENUATUS ATTENUATUS                                       | WESTERN SLENDER GLASS LIZARD |       |     | 036N009W | 03   | S HALF           |       |     |       | 1981-   |
| LYCAIDES MELISSA SAMUELIS  | KARNER BLUE BUTTERFLY        | SE    | C2  | 036N009W | 03   | SEQ SWQ          |       |     |       | 1990-06 |
| PLATANHERA FLAVA VAR HERBIOLA  | PALE GREEN ORCHIS            | SR    |     | 036N009W | 03   |                  |       |     |       | 1986-   |
| POSONIA OPHIOGLOSSOIDES  | ROSE POSONIA                 | SR    |     | 036N009W | 03   |                  |       |     |       | 1978-01 |
| PRAIRIE - SAND DRY-MESIC   | DRY-MESIC SAND PRAIRIE       |       |     | 036N009W | 03   | S HALF, + S2, 4  |       |     |       | 1990-07 |
| SATUREJA LABELLA VAR ANGUSTIFOLIA                                      | CALAMINT                     | SE    |     | 036N009W | 03   | SWQ              |       |     |       | 1986-06 |
| WETLAND - MARSH  | MARSH                        |       |     | 036N009W | 03   | S HALF, + S2, 4  |       |     |       | 1990-07 |
| WETLAND - SWAMP SHRUB  | SHRUB SWAMP                  |       |     | 036N009W | 03   | S HALF, + S2, S4 |       |     |       | 1990-07 |

STATE: SI=extirpated, SE=endangered, ST=threatened, SR=rare, SSC=special concern  
FEDERAL: LE=endangered, LT=threatened, C2=under review, may warrant listing, 3C=delisted

12 JUN 1991

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NATURAL COMMUNITIES AND NATURAL AREAS DOCUMENTED WITHIN  
A TWO MILE RADIUS OF THE USS LEAD SITE IN EAST CHICAGO, INDIANA  
(\*water oriented species)

| Species Name.....                              | Common Name.....            | State | Fed | Stat     | Stat | Townrange      | Sec | Date... |
|--|-----------------------------|-------|-----|----------|------|----------------|-----|---------|
| <u>TOLLESTON RIDGES NATURE PRESERVE: (CZM)</u> |                             |       |     |          |      |                |     |         |
| SPERMOPHILLUS FRANKLINII                       | FRANKLIN'S GROUND SQUIRREL  |       |     | 036N009W | 03   | PLUS S2, 4, 11 |     | 1986-05 |
| BAPTISIA LEUCOPHAEA                            | CREAM WILD-INDIGO           | SR    |     | 036N009W | 03   |                |     | 1978-08 |
| BETULA PAPYRIFERA                              | PAPER BIRCH                 | SR    |     | 036N009W | 03   |                |     | 1978-08 |
| *BOTAURUS LENTIGINOSUS                         | AMERICAN BITTERN            | SE    |     | 036N009W | 03   | NH             |     | 1975-   |
| BUTEO LINEATUS                                 | RED-SHOULDERED HAWK         | SSC   |     | 036N009W | 03   | N HALF SEQ     |     | 1978-08 |
| CAREX AUREA                                    | GOLDEN-FRUITED SEDGE        | ST    |     | 036N009W | 03   |                |     | 1978-08 |
| CAREX RICHARDSONII                             | RICHARDSON SEDGE            | SE    |     | 036N009W | 03   |                |     | 1986-   |
| CIRSIIUM PITCHERI                              | DUNE THISTLE                | ST    | LT  | 036N009W | 03   |                |     | 1989-06 |
| CORNUS RUGOSA                                  | ROUNDLEAF DOGWOOD           | ST    |     | 036N009W | 03   |                |     | 1920-07 |
| CYPRIPEDIUM CALDEOLUS VAR PARVIFLORUM          | SMALL YELLOW LADY'S-SLIPPER | SR    |     | 036N009W | 03   | NEQ            |     | 1987-05 |
| CYPRIPEDIUM X ANDRENSII                        | ANDREW'S LADY'S-SLIPPER     | SE    |     | 036N009W | 03   | NEQ            |     | 1987-05 |
| EMYDOIDEA BLANDINGI                            | BLANDING'S TURTLE           | SSC   |     | 036N009W | 03   | SEQ NWQ        |     | 1986-06 |
| GEOMYS BURSARIUS                               | PLAINS POCKET GOPHER        | SSC   |     | 036N009W | 03   | NH             |     | 1978-SU |
| HYPERICUM KALMIANUM                            | KALM ST. JOHN'S-WORT        | SR    |     | 036N009W | 03   |                |     | 1974-   |
| LYCAEIDES MELISSA SAMUELIS                     | KARNER BLUE BUTTERFLY       | SE    | C2  | 036N009W | 03   | NH             |     | 1978-   |
| PLATANHERA FLAVA VAR HERBIOLA                  | PALE GREEN ORCHIS           | SR    |     | 036N009W | 03   |                |     | 1978-08 |
| POGONIA OPHIOGLOSSOIDES                        | ROSE POGONIA                | SR    |     | 036N009W | 03   |                |     | 1978-08 |
| PRAIRIE - SAND DRY-MESIC                       | DRY-MESIC SAND PRAIRIE      |       |     | 036N009W | 03   | N 1/2 N1/2 SEQ |     | 1989-07 |
| PRUNUS PENNSYLVANICA                           | FIRE CHERRY                 | SR    |     | 036N009W | 03   |                |     | 1978-08 |
| SAVANNA - SAND DRY-MESIC                       | DRY-MESIC SAND SAVANNA      |       |     | 036N009W | 03   | N HALF SEQ     |     | 1989-07 |
| SOLIDAGO SPATHULATA VAR GILLMANII              | STICKY GOLDENROD            | ST    | C2  | 036N009W | 03   |                |     | 1978-08 |
| SPIRANTHES LUCIDA                              | SHINING LADIES'-TRESSES     | ST    |     | 036N009W | 03   | NWQ            |     | -? -    |
| WETLAND - MARSH                                | MARSH                       |       |     | 036N009W | 03   | N1/2 N1/2 SEQ  |     | 1989-07 |
| WETLAND - SWAMP SHRUB                          | SHRUB SWAMP                 |       |     | 036N009W | 03   | N HALF SEQ     |     | 1989-07 |

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