

Illinois Department of Transportation

Memorandum

To: Anthony Quigley Attn: Vanessa Ruiz
From: Jack Elston By: Brad Koldehoff
Subject: Cultural Resources -- Review of Known Resources in Illinois
Date: August 3, 2021

**Cook County
Lansing, Thornton, and South Holland
FAI 80/FAI 94/FAI 294, IL 394
Planning and Environmental and Linkages (PEL) Study
Sequence #23943**

Architectural/Historic Resources

A database review of National Register of Historic Places (NRHP), National Historic Landmarks (NHL), local landmarks, and Illinois State Historic Preservation Office (SHPO) files online (HARGIS and National Park Service websites), found no known historic architectural resources in the ESR limits for the project. A preliminary review Google street view, and historic aerial photos identified one property that warrants NRHP consideration under Criteria A, C, and D: the Thornton Quarry, Thornton, IL 60476 (c. 1834).

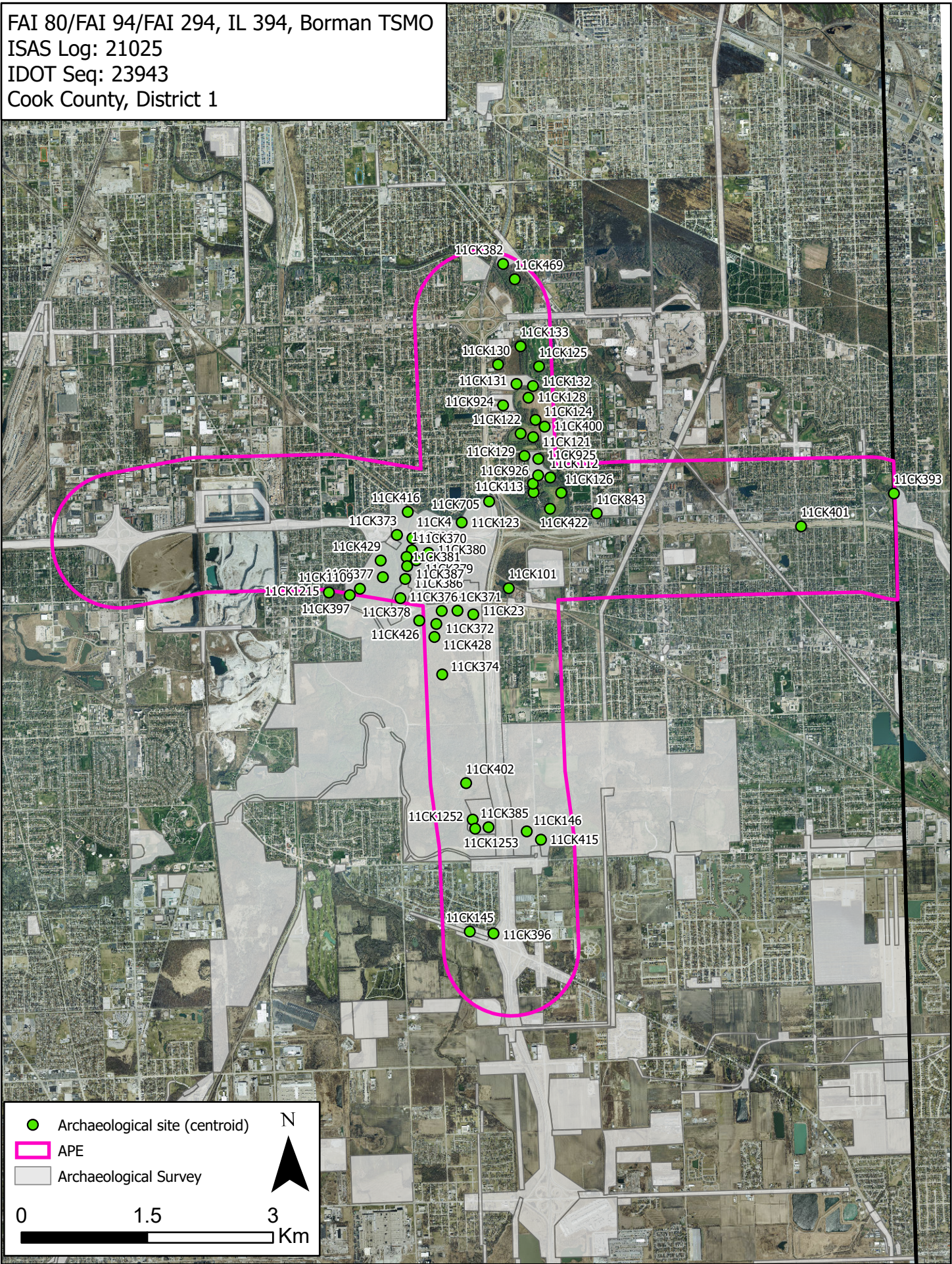
Archaeological Resources

A database review of the Illinois Inventory of Archaeological Sites identified 12 previously recorded sites within or adjacent to the ESR limits: 11CK4, 11CK23, 11CK101, 11CK369, 11CK370, 11CK373, 11CK380, 11CK401, 11CK416, 11CK422, 11CK705, and 11CK843. Site 11CK4, the Hoxie site, has been previously determined eligible for the NRHP and is especially sensitive because it is a large Native American village known to have human burials.

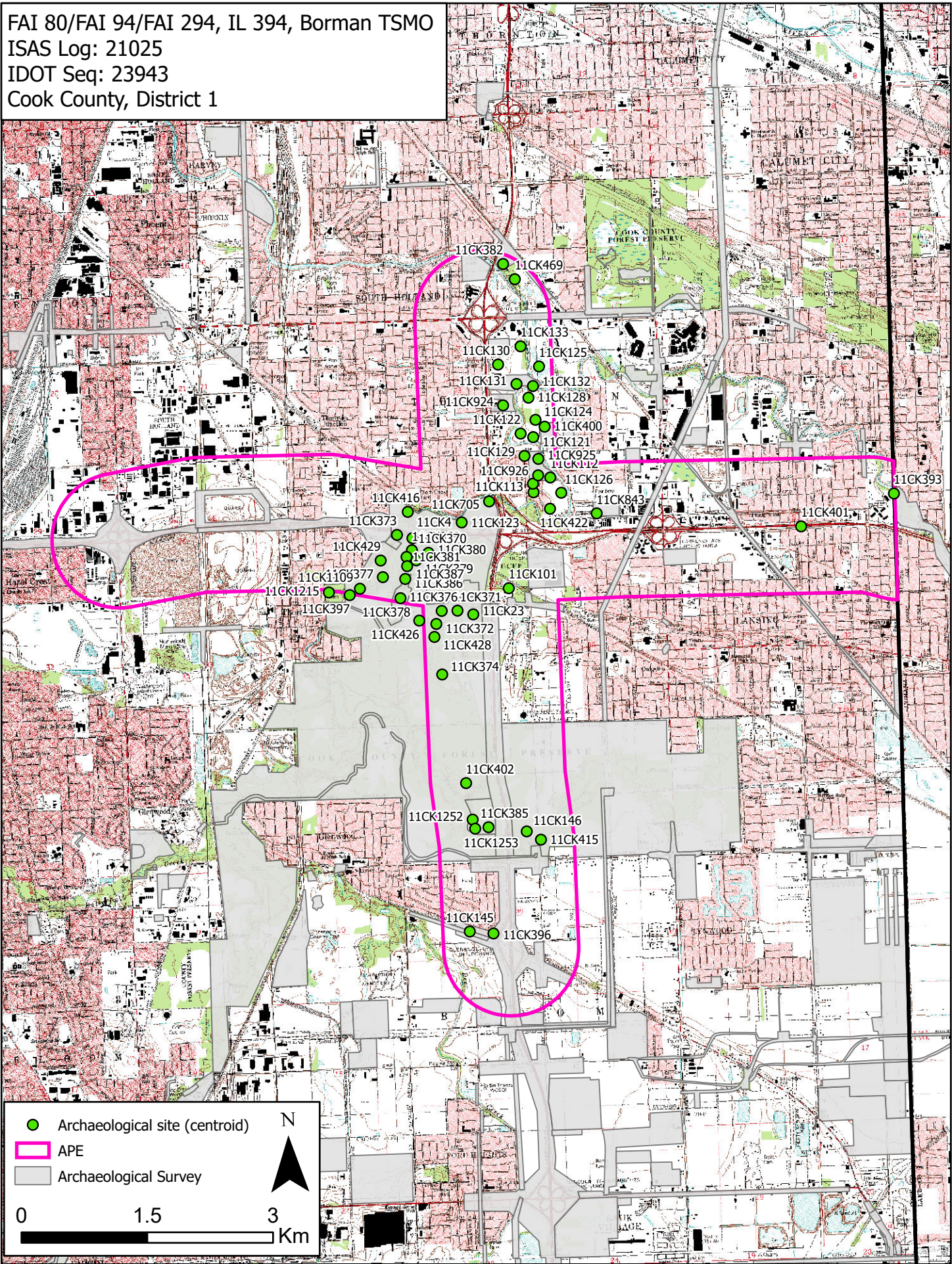
A handwritten signature in black ink that reads "Brad Koldehoff".

Brad H. Koldehoff
Cultural Resources Unit Chief
Bureau of Design & Environment

FAI 80/FAI 94/FAI 294, IL 394, Borman TSMO
ISAS Log: 21025
IDOT Seq: 23943
Cook County, District 1



FAI 80/FAI 94/FAI 294, IL 394, Borman TSMO
ISAS Log: 21025
IDOT Seq: 23943
Cook County, District 1



● Archaeological site (centroid)
▭ APE
▭ Archaeological Survey

N

0 1.5 3 Km

- Wampum Lake Natural Areas Inventory Site (INAI) and Nature Preserve (NP) occur in the northwest quadrant of the I-80/IL 394 interchange and slightly overlap the ESR limits.
- Wampum Lake Seepage Area INAI and Wampum Lake NP occur in the southwest quadrant of the I-80/IL 394 interchange; the NP abuts the ESR limits. The INAI/NP contains state listed star flower and state and federally listed Eastern massasauga.
- Thornton-Lansing Road INAI and NP abuts the ESR limits along the west side of IL 394 and abuts the south boundary of Wampum Lake Seepage Area INAI and Wampum Lake NP. The INAI/NP contains the following listed species: star-flower, orange-fringed orchid, small cranberry, snake-mouth, grass pink orchid, wood orchid, tubercled orchid, Northern panic grass, sweetfern, Indian cucumber root, Kalm's St. John's wort, marsh speedwell, and a sedge.
- Jurgensen Woods INAI and Jurgensen Woods North NP abuts and slightly overlaps the west side of IL 394 and abut the south boundary of Thornton-Lansing Road INAI and NP. The INAI/NP contains the following listed species: orange-fringed orchid, grass pink orchid, Kalm's St. John's wort, sweetfern, and narrow-leaved sundew.
- State listed Richardson's rush abuts the south side of I-294 at the west end of the project area.
- Volbrecht Woods INAI containing Kalm's St. John's wort occurs in the southeast quadrant of the I-80/IL 394 interchange and overlaps the ESR limits.
- A record for state and federally listed Northern long-eared bat occurs 1.1 miles west of IL 394.
- A federally and state listed Rusty patched bumble bee High Potential Zone (RPBB HPZ) occurs two miles west of the project area. It contains a RPBB record four miles radius west of the project area.

Review for Illinois Interagency Wetland Policy Act – Part 1090

There are inventoried Ducks Unlimited and National Wetland Inventory wetlands within or adjacent to the ESR limits. The East Arm Little Calumet River is a Ducks Unlimited riverine wetland that crosses the north end of the project area. The following wetland types occur in various locations in the ESR limits: several freshwater ponds/freshwater forested/shrub wetlands, freshwater emergent wetland, and Thorn Creek riverine wetland. Soils are considered urban.

Review for Endangered Species Act - Section 7

The proposed improvement was reviewed in fulfillment of our obligation under Section 7(a)(2) of the Endangered Species Act. Our review included use of the US Fish and Wildlife Service's Information for Planning and Conservation (IPaC) web-based review tool. Through IPaC, an official species list was received and is saved to the project folder. The list contains the endangered, threatened, proposed and candidate species and proposed and designated critical habitat that may be present within or in the vicinity of the proposed improvement. The following species are listed in Cook County: Northern long-eared bat (NLEB), Indiana bat, Eastern massasauga, Hine's emerald dragonfly, Eastern prairie fringed orchid

(EPFO), leafy prairie-clover, and prairie bush-clover. There is no Critical Habitat in the project vicinity. **Under 50 CFR 402.12(e), the accuracy of the species list is limited to 90 days.**

Northern long-eared bat

Northern long-eared bat suitable summer habitat consists of a wide variety of forested or wooded habitats where they roost, forage, and travel and may also include some adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, old fields and pastures. This includes forests and woodlots containing potential roosts (i.e., live trees or snags ≥ 3 inches dbh that have exfoliating bark, cracks, crevices, or hollows) as well as linear features such as fencerows, riparian forests, and other wooded corridors. These wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Individual trees may be considered suitable habitat when they exhibit characteristics of suitable roost trees and are within 1,000 feet of other forested or wooded habitat. Trees found in highly-developed urban areas (e.g., street trees, downtown areas) are extremely unlikely to be suitable NLEB habitat.

There will be an unknown quantity of urban trees removed as a result of this project. Land use in the project area is urban and Forest Preserve of Cook County. There is a record of maternity roost trees, maternity colonies or hibernacula 1.1 miles west of IL 394.

Eastern prairie fringed orchid

Eastern prairie fringed orchid occurs in a wide variety of habitats, from mesic prairie to wetland communities such as sedge meadows, marsh edges and even bogs. It requires full sunlight for optimum growth and flowering, which restricts it to grass- and sedge-dominated plant communities. The substrate of the sites where it occurs ranges from neutral to mildly calcareous. Occasionally the orchid colonizes successional habitats or recolonizes previously occupied areas.

We evaluated the limits of the proposed improvement for the presence of potentially suitable EPFO habitat. Our evaluation included the use of EPFO guidance from the US Fish and Wildlife Service, Chicago Ecological Services Field Office. There are prairies and high-quality wetlands but no EPFO records in the project corridor.

Eastern massasauga

There is an Eastern massasauga record in Wampum Lake Seepage Area INAI and Wampum Lake NP located in the southwest quadrant of the I-80/IL 394 interchange. The NP abuts the ESR limits. This species requires shallow wetlands and uplands.

Rusty patched bumble bee

We evaluated the limits of the proposed improvement for the presence of potentially suitable Rusty patched bumble bee habitat. Our evaluation included the use of the guidance issued by USFWS dated April 2019 and titled “Rusty Patched Bumble Bee (*Bombus affinis*), Endangered Species Act, Section 7(a)(2) Voluntary Implementation Guidance Version 2.1” (“USFWS Interagency Guidance”).

We cross referenced the preferred habitat of the Rusty patched bumble bee with our knowledge of the project area and determined that there is a USFWS High Potential Zone two miles west of the project area. It contains a RPBB record four miles west of the project area.

Attachment — USFWS species lists

SDH



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Chicago Ecological Service Field Office

U.s. Fish And Wildlife Service Chicago Ecological Services Office

230 South Dearborn St., Suite 2938

Chicago, IL 60604-1507

Phone: (312) 485-9337 Fax:

<http://www.fws.gov/midwest/endangered/section7/s7process/7a2process.html>

In Reply Refer To:

September 10, 2021

Consultation Code: 03E13000-2021-SLI-0809

Event Code: 03E13000-2021-E-02028

Project Name: I-80-94 TSMO PEL Study, Lansing and South Holland, Cook Co, seq. 23943

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The attached species list identifies any federally threatened, endangered, proposed and candidate species that may occur within the boundary of your proposed project or may be affected by your proposed project. The list also includes designated critical habitat if present within your proposed project area or affected by your project. This list is provided to you as the initial step of the consultation process required under section 7(c) of the Endangered Species Act, also referred to as Section 7 Consultation.

Please note! For all **wind energy projects** and **projects that include installing towers that use guy wires or are over 200 feet in height**, please contact this field office directly for assistance, even if no federally listed plants, animals or critical habitat are present within your proposed project or may be affected by your proposed project.

For all other projects, continue the Section 7 Consultation process by going to our Section 7 Technical Assistance website at <http://www.fws.gov/midwest/endangered/section7/s7process/index.html>. If you are familiar with this website, you may want to go to Step 2 of the Section 7 Consultation process at <http://www.fws.gov/midwest/endangered/section7/s7process/step2.html>.

Under 50 CFR 402.12(e) (the regulations that implement Section 7 of the Endangered Species Act) the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally. You may verify the list by visiting the ECOS-IPaC website <http://ecos.fws.gov/ipac/> at regular intervals during project planning and implementation and completing the same process you used to receive the attached list. As an alternative, you may contact this Ecological Services Field Office for updates.

Although no longer protected under the Endangered Species Act, be aware that bald eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), as are golden eagles. Projects affecting these species may require measures to avoid harming eagles or may require a permit. If your project is near an eagle nest or winter roost area, see our Eagle Permits website at <http://www.fws.gov/midwest/midwestbird/EaglePermits/index.html> to help you determine if you can avoid impacting eagles or if a permit may be necessary.

We appreciate your concern for threatened and endangered species. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Chicago Ecological Service Field Office

U.s. Fish And Wildlife Service Chicago Ecological Services Office
230 South Dearborn St., Suite 2938
Chicago, IL 60604-1507
(312) 485-9337

This project's location is within the jurisdiction of multiple offices. Expect additional species list documents from the following office, and expect that the species and critical habitats in each document reflect only those that fall in the office's jurisdiction:

Indiana Ecological Services Field Office

620 South Walker Street
Bloomington, IN 47403-2121
(812) 334-4261

Project Summary

Consultation Code: 03E13000-2021-SLI-0809

Event Code: Some(03E13000-2021-E-02028)

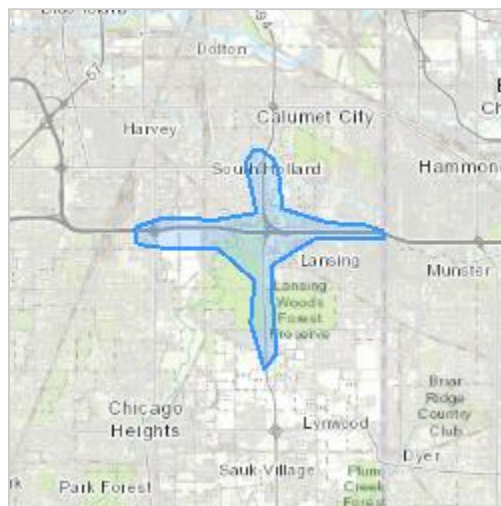
Project Name: I-80-94 TSMO PEL Study, Lansing and South Holland, Cook Co, seq. 23943

Project Type: TRANSPORTATION

Project Description: The I-80/94 Borman Transportation Systems Management and Operations (TSMO) study is a Planning and Environmental and Linkages (PEL) study. The I-80/94 Borman TSMO study is for the I-80/94 corridor from the IL 394 interchange in Illinois on the west to I-65 in Indiana on the east. These ESR limits include the three other legs of the IL 394 interchange that feed into the western terminus of the project. The Indiana Department of Transportation is the project sponsor. This study of the I-80/94 corridor aims to improve traffic operations and safety on I-80/94. Being a very tight corridor as far as existing right-of-way, adding capacity via permanent added travel lanes is not feasible at this time. Therefore, the project will consider TSMO alternatives such as hard shoulder running, variable speed limits, queue warning, ramp metering, managed lanes, incident management strategies, etc. to maximize the efficiency and safety of the corridor. Physical improvements may include minor shoulder widening, overhead sign gantry construction, etc. The study will include an existing conditions analysis and the development of alternatives. The land cover in the vicinity of the project is urban and Forest Preserve of Cook County.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@41.5676712,-87.58716106395502,14z>



Counties: Illinois and Indiana

Endangered Species Act Species

There is a total of 9 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 1 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Birds

NAME	STATUS
Piping Plover <i>Charadrius melodus</i> Population: [Great Lakes watershed DPS] - Great Lakes, watershed in States of IL, IN, MI, MN, NY, OH, PA, and WI and Canada (Ont.) There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/6039	Endangered
Red Knot <i>Calidris canutus rufa</i> There is proposed critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/1864	Threatened

Reptiles

NAME	STATUS
Eastern Massasauga (=rattlesnake) <i>Sistrurus catenatus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2202	Threatened

Insects

NAME	STATUS
<p>Hine's Emerald Dragonfly <i>Somatochlora hineana</i></p> <p>There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/7877</p>	Endangered
<p>Monarch Butterfly <i>Danaus plexippus</i></p> <p>No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743</p>	Candidate

Flowering Plants

NAME	STATUS
<p>Eastern Prairie Fringed Orchid <i>Platanthera leucophaea</i></p> <p>No critical habitat has been designated for this species. This species only needs to be considered under the following conditions:</p> <ul style="list-style-type: none"> ▪ Follow the guidance provided at https://www.fws.gov/midwest/endangered/section7/s7process/plants/epfos7guide.html <p>Species profile: https://ecos.fws.gov/ecp/species/601</p>	Threatened
<p>Leafy Prairie-clover <i>Dalea foliosa</i></p> <p>No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5498</p>	Endangered
<p>Prairie Bush-clover <i>Lespedeza leptostachya</i></p> <p>No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4458</p>	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Indiana Ecological Services Field Office

620 South Walker Street

Bloomington, IN 47403-2121

Phone: (812) 334-4261 Fax: (812) 334-4273

<http://www.fws.gov/midwest/Endangered/section7/s7process/step1.html>

In Reply Refer To:

September 10, 2021

Consultation Code: 03E12000-2021-SLI-2035

Event Code: 03E12000-2021-E-09358

Project Name: I-80-94 TSMO PEL Study, Lansing and South Holland, Cook Co, seq. 23943

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The attached species list identifies any federally threatened, endangered, proposed and candidate species that may occur within the boundary of your proposed project or may be affected by your proposed project. The list also includes designated critical habitat if present within your proposed project area or affected by your project. This list is provided to you as the initial step of the consultation process required under section 7(c) of the Endangered Species Act, also referred to as Section 7 Consultation.

Section 7 of the Endangered Species Act of 1973 requires that actions authorized, funded, or carried out by Federal agencies not jeopardize federally threatened or endangered species or adversely modify designated critical habitat. To fulfill this mandate, Federal agencies (or their designated non-federal representative) must consult with the Service if they determine their project “may affect” listed species or critical habitat.

Under 50 CFR 402.12(e) (the regulations that implement Section 7 of the Endangered Species Act) the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally. You may verify the list by visiting the ECOS-IPaC website <http://ecos.fws.gov/ipac/> at regular intervals during project planning and implementation and completing the same process you used to receive the attached list. As an alternative, you may contact this Ecological Services Field Office for updates.

Please use the species list provided and visit the U.S. Fish and Wildlife Service’s Region 3 Section 7 Technical Assistance website at - <http://www.fws.gov/midwest/endangered/section7/s7process/index.html>. This website contains step-by-step instructions which will help you determine if your project will have an adverse effect on listed species and will help lead you through the Section 7 process.

For all **wind energy projects** and **projects that include installing towers that use guy wires or are over 200 feet in height**, please contact this field office directly for assistance, even if no federally listed plants, animals or critical habitat are present within your proposed project or may be affected by your proposed project.

Although no longer protected under the Endangered Species Act, be aware that bald eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*) and Migratory Bird Treaty Act (16 U.S.C. 703 *et seq.*), as are golden eagles. Projects affecting these species may require measures to avoid harming eagles or may require a permit. If your project is near an eagle nest or winter roost area, see our Eagle Permits website at <http://www.fws.gov/midwest/midwestbird/EaglePermits/index.html> to help you determine if you can avoid impacting eagles or if a permit may be necessary.

We appreciate your concern for threatened and endangered species. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
-

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Indiana Ecological Services Field Office

620 South Walker Street
Bloomington, IN 47403-2121
(812) 334-4261

This project's location is within the jurisdiction of multiple offices. Expect additional species list documents from the following office, and expect that the species and critical habitats in each document reflect only those that fall in the office's jurisdiction:

Chicago Ecological Service Field Office

U.s. Fish And Wildlife Service Chicago Ecological Services Office
230 South Dearborn St., Suite 2938
Chicago, IL 60604-1507
(312) 485-9337

Project Summary

Consultation Code: 03E12000-2021-SLI-2035

Event Code: Some(03E12000-2021-E-09358)

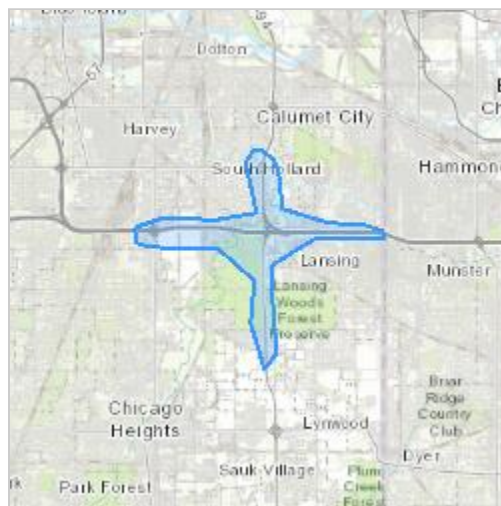
Project Name: I-80-94 TSMO PEL Study, Lansing and South Holland, Cook Co, seq. 23943

Project Type: TRANSPORTATION

Project Description: The I-80/94 Borman Transportation Systems Management and Operations (TSMO) study is a Planning and Environmental and Linkages (PEL) study. The I-80/94 Borman TSMO study is for the I-80/94 corridor from the IL 394 interchange in Illinois on the west to I-65 in Indiana on the east. These ESR limits include the three other legs of the IL 394 interchange that feed into the western terminus of the project. The Indiana Department of Transportation is the project sponsor. This study of the I-80/94 corridor aims to improve traffic operations and safety on I-80/94. Being a very tight corridor as far as existing right-of-way, adding capacity via permanent added travel lanes is not feasible at this time. Therefore, the project will consider TSMO alternatives such as hard shoulder running, variable speed limits, queue warning, ramp metering, managed lanes, incident management strategies, etc. to maximize the efficiency and safety of the corridor. Physical improvements may include minor shoulder widening, overhead sign gantry construction, etc. The study will include an existing conditions analysis and the development of alternatives. The land cover in the vicinity of the project is urban and Forest Preserve of Cook County.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@41.5676712,-87.58716106395502,14z>



Counties: Illinois and Indiana

Endangered Species Act Species

There is a total of 10 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 1 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Indiana Bat <i>Myotis sodalis</i> There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/5949	Endangered
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Birds

NAME	STATUS
Piping Plover <i>Charadrius melodus</i> Population: [Great Lakes watershed DPS] - Great Lakes, watershed in States of IL, IN, MI, MN, NY, OH, PA, and WI and Canada (Ont.) There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/6039	Endangered
Red Knot <i>Calidris canutus rufa</i> There is proposed critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/1864	Threatened

Reptiles

NAME	STATUS
Eastern Massasauga (=rattlesnake) <i>Sistrurus catenatus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2202	Threatened

Insects

NAME	STATUS
Hine's Emerald Dragonfly <i>Somatochlora hineana</i> There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/7877	Endangered
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

Flowering Plants

NAME	STATUS
Eastern Prairie Fringed Orchid <i>Platanthera leucophaea</i> No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: <ul style="list-style-type: none"> Follow the guidance provided at https://www.fws.gov/midwest/endangered/section7/s7process/plants/epfos7guide.html Species profile: https://ecos.fws.gov/ecp/species/601	Threatened
Leafy Prairie-clover <i>Dalea foliosa</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5498	Endangered
Prairie Bush-clover <i>Lespedeza leptostachya</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4458	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.