



United States Department of the Interior

FISH AND WILDLIFE SERVICE

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January 28, 2014

Timothy M. Hill, Administrator
Office of Environmental Services
Ohio Department of Transportation
P.O. Box 899
Columbus, OH 43216-0899

TAILS: 03E15000-2014-F-0504 (PID 84079)

Attn: Michael Pettegrew, Chris Staron

RE: **SAN-SR523-0.00 (PID 84079)**

Dear Mr. Hill:

This letter is in response to your January 16, 2014 request for site-specific review of the **SAN-SR523-0.00 (PID 84079)**, pursuant to section 7 of the Endangered Species Act of 1973, as amended. The project, as proposed includes the resurfacing of SR 523 between SR 19 and SR 53. The project as proposed also includes ditch relocation along the same route. We understand that the project as proposed includes impacts to 24 potential roost trees for the Indiana bat out of 1.24 total acres of tree clearing.

FISH & WILDLIFE COORDINATION ACT COMMENTS:

The Service recommends that impacts to streams and wetlands be avoided, and buffers surrounding these systems be preserved. Streams and wetlands provide valuable habitat for fish and wildlife resources, and the filtering capacity of wetlands helps to improve water quality. Naturally vegetated buffers surrounding these systems are also important in preserving their wildlife-habitat and water quality-enhancement properties. We support and recommend mitigation activities that reduce the likelihood of invasive plant spread and encourage native plant colonization. Prevention of non-native, invasive plant establishment is critical in maintaining high quality habitats. All disturbed areas in the project vicinity should be mulched and revegetated with native plant species.

FEDERALLY LISTED SPECIES:

The project is located within the range of the **Indiana bat** (*Myotis sodalis*), a species federally listed as endangered; the **northern long-eared bat** (*Myotis septentrionalis*), a species that is currently proposed for federal listing as endangered; the **Kirtland's warbler** (*Setophaga kirtlandii*), a federally listed endangered species; the **piping plover** (*Charadrius melodus*), a federally listed endangered species; the **rufa red knot** (*Calidris canutus rufa*), a species that is currently proposed to be listed as federally threatened; the **eastern prairie fringed orchid** (*Platanthera leucophaea*), a federally listed threatened species; the **eastern massasauga** (*Sistrurus catenatus*), a small, docile rattlesnake that is currently a Federal candidate species; and the **bald eagle** (*Haliaeetus leucocephalus*), a federal species of concern.

ODOT has determined that this project will have *no effect* on the Kirtland's warbler, piping plover, rufa red knot, eastern prairie fringed orchid, eastern massasauga, or the bald eagle; therefore, consultation on these six species is not required.

We appreciate ODOT's commitment to only clear trees between September 30 and April 1 on this project. This will likely avoid direct impacts to the northern long-eared bat. However, the clearing of 24 trees with characteristics that could provide suitable roosting habitat for the Indiana bat, may result in indirect impacts to the northern long-eared bat as well. Therefore, we are unable to concur with your *may affect not likely to adversely affect* determination for the northern long-eared bat. However, due to the small acreage, and the information provided in the ESR, the project, as proposed, is not likely to jeopardize the continued existence of the species.

INDIANA BAT - TIER 2 BIOLOGICAL OPINION:

On January 26, 2007, the U.S. Fish and Wildlife Service (Service) issued a programmatic biological opinion (PBO) for the Ohio Department of Transportation's (ODOT) Statewide Transportation Program. This PBO established a two-tiered consultation process for ODOT activities, with issuance of the programmatic opinion being Tier 1 and all subsequent site-specific project analyses constituting Tier 2 consultations. Under this tiered process, the Service will produce tiered biological opinions when it is determined that site-specific projects are likely to adversely affect federally listed species. When *may affect, not likely to adversely affect* determinations are made, the Service will review those projects and if justified, provide written concurrence and section 7(a)(2) consultation will be considered completed for those site-specific projects.

In issuing the PBO (Tier 1 biological opinion), we evaluated the effects of all ODOT actions outlined in your Biological Assessment on the federally listed Indiana bat. Your current request for Service review of the **SAN-SR523-0.00 (PID 84079)** project is a Tier 2 consultation under the January 26, 2007, PBO. We have reviewed the information contained in the letter and supporting materials submitted by your office describing the effects of the proposed project on federally listed species. We concur with your determination that the action is *likely to adversely affect* the Indiana bat. As such, this review focuses on determining whether: (1) this proposed site-specific project falls within the scope of the Tier 1 PBO, (2) the effects of this proposed action are consistent with those anticipated in the Tier 1 PBO, and (3) the appropriate conservation and mitigation measures identified in the biological assessment are adhered to.

That is, this letter serves as the Tier 2 biological opinion for the proposed **SAN-SR523-0.00 (PID 84079)** project. As such, this letter also provides the level of incidental take that is anticipated and a cumulative tally of incidental take that has been authorized and exempted in the PBO.

Description of the Proposed Action

Your letter, along with the supporting materials you submitted, include the location and a thorough description of the proposed action. The action, as proposed, involves the resurfacing of SR 523 and ditch relocation between SR 19 and SR 53 in Sandusky County, Ohio. Twenty-four trees that exhibit suitable summer roost habitat characteristics for the Indiana bat will be removed for the project. ODOT will implement the following conservation measures to avoid, minimize, and/or mitigate adverse impacts to the Indiana bat:

- 1) any unavoidable tree removal will take place between September 30 and April 1 to avoid direct impacts (avoidance measure A-1), and
- 2) the 1.24 acres of impacted forest will be added to the SCCC2 Debit List to mitigate adverse impacts to the bat (towards mitigation measure M-1). *See attached document: ODOT Interim Debit List.* The final

type and amount of acreage to be deducted from the SCCC2 Conservation Area to offset impacts from this project will be calculated in accordance with the habitat replacement strategy and ratio to be included in the final agreement between ODOT and the Service regarding the use of the SCCC2 site to offset take of Indiana bat habitat.

Status of the Species

Species description, distribution, life history, population dynamics, and status are fully described on pages 13-26 for the Indiana bat in the PBO and are hereby incorporated by reference. Since the issuance of the PBO in 2007, there has been no change in the status of the species.

Species descriptions, life histories, population dynamics, status and distributions are fully described on pages 23-30 for the Indiana bat in the PBO and are hereby incorporated by reference. The most recent population estimate indicates 534,239 Indiana bats occur rangewide (King 2013). The current revised Indiana Bat Recovery Plan: First Revision (2007) delineates recovery units based on population discreteness, differences in population trends, and broad level differences in land-use and macrohabitats. There are currently four recovery units for the Indiana bat: Ozark-Central, Midwest, Appalachian Mountains, and Northeast. All of Ohio falls within the Midwest Recovery Unit.

In 2007, white nose syndrome (WNS) was found to fatally affect several species of bats, including the Indiana bat, in eastern hibernacula. To date, WNS is known from Alabama, Connecticut, Georgia, Illinois, Indiana, Kentucky, Maine, Maryland, Massachusetts, Missouri, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, South Carolina, Tennessee, Vermont, Virginia, and West Virginia, as well as the provinces of Ontario and Quebec in Canada. The extent of the impact this syndrome may have on the species rangewide is uncertain, but based on our current limited understanding of WNS, we expect mortality of bats at affected sites to be high (personal communication, L. Pruitt, 2008).

Environmental Baseline

The environmental baseline for the species listed above was fully described on pages 21-26 of the PBO and is hereby incorporated by reference. Since the issuance of the PBO in 2007, there has been no change in the environmental baseline.

Status of the species within the action area

Since the issuance of the PBO in 2007, there have been no new Indiana bat capture records within the vicinity of this project. Your letter and supporting materials state that suitable habitat exists within the action area, thus we are assuming presence.

Effects of the Action

Based on analysis of the information provided in your letter and supporting materials, we have determined that the effects of the proposed action are consistent with those contemplated and fully described on pages 31-35 of the PBO. Adverse effects to the Indiana bat from this project could occur due to the removal of 1.24 acres of wooded habitat, including 24 potential roost trees. As no trees exhibiting characteristics of maternity roost habitat will be removed for the project, the Service anticipates that any effects on an extant maternity colony will be insignificant. In addition, implementation of seasonal cutting restrictions will avoid direct adverse effects to individual bats.

Adult male and non-reproductive female Indiana bats may be indirectly exposed to loss of roosting habitat. In general, effects on these individual bats would be less severe than the effects associated with individuals of maternity colonies. Adult male and non-reproductive female Indiana bats are not subject to the physiological demands of pregnancy and rearing young.

Males and non-reproductive females typically roost alone or occasionally in small groups. When these individuals are displaced from roosts they must utilize alternative roosts or seek out new roosts. Because these individuals are not functioning as members of maternity colonies, they do not face the challenge of reforming as a colony. Roost tree requirements for non-reproductive Indiana bats are less specific whereas maternity colonies generally require larger roost trees to accommodate multiple members of a colony. Therefore, it is anticipated that adverse indirect effects to non-reproductive bats will be less than the effects to reproductively active females. The Service anticipates that indirect effects to non-reproductive Indiana bats from the loss of roosting habitat will be insignificant.

We are not aware of any non-federal actions in the action area that are reasonably certain to occur. Thus, we do not anticipate any cumulative effects associated with this project.

Conclusion

We believe the proposed SAN-SR523-0.00 (PID 84079) project is consistent with the PBO. After reviewing site specific information, including 1) the scope of the project, 2) the environmental baseline, 3) the status of the Indiana bat and its assumed presence within the project area, 4) the effects of the action, and 5) any cumulative effects, it is the Service’s biological opinion that this project is *not likely to jeopardize* the continued existence of the Indiana bat.

Incidental Take Statement

The Service anticipates that the proposed action will result in incidental take associated with projects in the West management unit. Incidental take for this project, based on the potential removal of approximately 1.24 acres, resulting in the cumulative incidental take of 221.77 for this management unit. This project, added to the cumulative total of incidental take for the implementation of ODOT’s Statewide Transportation Program, is well within the level of incidental take anticipated in the 2007 PBO (see table below).

Management Unit	IT anticipated in PBO	IT for this project	Cumulative IT granted to date
West	1,565 acres	1.24 acres	221.77 acres
Central	2,280 acres	0 acres	120.70 acres
Northeast	4,679 acres	0 acres	346.75 acres
East	6,370 acres	0 acres	212.62 acres
South	7,224 acres	0 acres	935.68 acres
Statewide	22,118 acres	0.68 acres	1837.52 acres

We determined that this level of anticipated and exempted take of Indiana bats from the proposed project, in conjunction with the other actions taken by ODOT pursuant to the PBO to date, is *not likely to result in jeopardy* to the species.

We understand that ODOT is implementing all pertinent Indiana bat conservation measures, specifically A-1 and M-1 stipulated in the Biological Assessment on pages 29-31. In addition, ODOT is monitoring the extent of incidental take that occurs on a project-by-project basis. These measures will minimize the impact of the anticipated incidental take.

This fulfills your section 7(a)(2) requirements for this action. However, should the proposed project be modified or the level of take identified above be exceeded, ODOT should promptly reinstate consultation on the Indiana bat as outlined in 50 CFR §402.16. As provided in 50 CFR §402.16, reinitiation of formal consultation is required where discretionary Federal agency involvement or control over the action has

been retained (or is authorized by law) and if: (1) the amount or extent of incidental take is exceeded; (2) new information reveals effects of the continued implementation of ODOT's Statewide Transportation Program and projects predicated upon it may affect listed species in a manner or to an extent not considered in this opinion; (3) the continued implementation of ODOT's Statewide Transportation Program and projects predicated upon it are subsequently modified in a manner that cause an effect to federally listed species not considered in this opinion; or (4) a new species is listed or critical habitat designated that may be affected by the action. In instances where the amount or extent of incidental take is exceeded, any operations causing such take must cease, pending reinitiation. Requests for reinitiation, or questions regarding reinitiation, should be directed to the U.S. Fish Wildlife Service's Columbus, Ohio Field Office.

In addition to the criteria, described immediately above, under which formal consultation must be reinitiated for the Indiana bat, the following reinitiation guidance also applies. Should, during the term of this action, additional information on listed or proposed species or their critical habitat become available, if a proposed species becomes officially listed, or if new information reveals effects of the action that were not previously considered, consultation with the Service should be reinitiated to assess whether the determinations are still valid.

We appreciate your continued efforts to ensure that this project is consistent with all provisions outlined in the Biological Assessment and PBO. If you have any questions regarding our response or if you need additional information, please contact Sarah Bowman at extension 18.

Sincerely,



Mary Knapp, Ph.D.
Field Supervisor

cc: J. Kessler, ODNR, Office of Real Estate, Columbus, OH (*email only*)
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Enclosure(s): ODOT Interim Debit List SCCC2 Site

