

North Dumbarton Street Culvert Replacement (UPC: 121825)

Threatened & Endangered Species

Project Description & Purpose and Need: The proposed project involves replacing an existing culvert that carries Little Pimmit Run under North Dumbarton Street in Arlington, Virginia. The existing culvert has reached the end of its useful life and is in need of replacement. The culvert is also undersized for the location leading to Little Pimmit Run overflowing the top of the culvert. The new culvert will be an open span arch design which will better allow high flow events. The culvert replacement project aims to provide a long-term solution for the residents of N. Dumbarton Street, improving their quality of life and reducing the risk of flood damage to properties. Furthermore, the project will contribute to the overall health and sustainability of the Little Pimmit Run watershed.

NEPA Document: The project is receiving federal funds and qualifies for a Programmatic Categorical Exclusion (PCE) level NEPA document, which is currently being coordinated with Arlington County, the Virginia Department of Transportation (VDOT), and Dewberry Engineers Inc. (Dewberry) as the County's consultant.

Threatened & Endangered Species Summary: On behalf of Arlington County, Dewberry completed a Project Review Package that has been included below. In Dewberry's opinion, no Critical Habitat or Threatened or Endangered Species will be adversely affected by the project. On **X/X/XXXX** Dewberry provided VDOT with all Threatened and Endangered Species documentation to submit to the U.S. Fish and Wildlife Service (USFWS) as the designated non-federal agency. On behalf of Arlington County, Dewberry is requesting that VDOT submit the Project Review Package included below for concurrence with the species determinations included in the Species Conclusion Table.

Please reach out with any questions related to the North Dumbarton Culvert Replacement project or the Threatened and Endangered Species information included below.

Thank you,



Robert Hayler
Environmental Scientist
Dewberry Engineers Inc.
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703.849.0147

Attachments:

- North Dumbarton Culvert Replacement – Threatened and Endangered Species Project Review Package

Endangered Species Act (ESA) Section 7 Determination Table

Project Name: North Dumbarton Street Culvert Replacement

Date: May 21, 2025

Species/ Resource Name	Habitat/Species Presence in Action Area	Sources of Info	ESA Section 7 Determination	Project Elements that Support Determination
Critical Habitat	No critical habitat present	Source: <i>USFWS Virginia Field Office Critical Habitat Map Tool</i>	No Effect	No critical habitat was identified.
Bald Eagle	Unlikely to disturb nesting bald eagles	Source: <i>The Center for Conservation Biology VaEagles Nest Locator</i>	No Eagle Act Permit required	There are no known bald eagle nests within 660 feet of the project area.
Bald Eagle Nests	No Bald Eagle Nests located within 660 feet of the project area	Source: <i>The Center for Conservation Biology (CCB) VaEagles Nest Locator</i>	Not Likely to Adversely Affect/No Eagle Act Permit Required	Using the Center for Conservation Biology Mapper it was determined that no known Eagle nests occur within 660 feet of the project area.
Bald Eagle Concentration Areas	Concentration Areas are not located within the project area	Source: <i>VA Bald Eagle Concentration Areas Mapper</i>	Not Likely to Adversely Affect/No Eagle Act Permit Required	Using the <i>VA Bald Eagle Concentration Area Mapper</i> , it was determined that no concentration areas occur within the project limits.

Northern Long-eared Bat (<i>Myotis septentrionalis</i>)	Potentially Suitable Habitat Present	Sources: USFWS IPaC, DWR Fish and Wildlife Information Service (VaFWIS); DWR NLEB Winter Habitat and Roost Trees Map Tool	May Affect, Not Likely to Adversely Affect	The project completed the FHWA, FRA, FTA Programmatic Consultation for Transportation Projects Affecting the IBAT, NLEB, or TCB Determination Key on May 21, 2025. Completion of the Key yielded a May Affect, Not Likely to Adversely Affect determination for the Northern Long-eared Bat. The project completed the Virginia Department of Transportation (VDOT) Bridge/Culvert Bat Assessment Form on Dec. 13th, 2024. The Form indicated no presence of bat species. The project is proposing to abide by the April 1st – Nov. 15th for all necessary tree clearing activities.
Tricolored Bat (<i>Perimyotis subflavus</i>)	Potentially Suitable Habitat Present	Sources: USFWS IPaC, DWR Fish and Wildlife Information Service (VaFWIS), DWR Little Brown Bat and Tricolored Bat Winter Habitat and Roosts Mapping Tool	May Affect, Not Likely to Adversely Affect	The project completed the FHWA, FRA, FTA Programmatic Consultation for Transportation Projects Affecting the IBAT, NLEB, or TCB Determination Key on May 21, 2025. Completion of the Key yielded a May Affect, Not Likely to Adversely Affect determination for the Northern Long-eared Bat. The project completed the Virginia Department of Transportation (VDOT) Bridge/Culvert Bat Assessment Form on Dec. 13th, 2024. The Form indicated no presence of bat species. The project is proposing to abide by the April 1st – Nov. 15th for all necessary tree clearing activities.
Monarch Butterfly (<i>Danaus plexippus</i>)	Potentially Suitable Habitat Present	Source: USFWS IPaC	May Affect, Not Likely to Adversely Affect	At this time, the Monarch Butterfly is listed as a proposed threatened species. Adverse effects to this species are not anticipated as a result of this project. Section 7 will be re-coordinated during permitting and further coordination, as necessary, will be conducted.



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Virginia Ecological Services Field Office

6669 Short Lane

Gloucester, VA 23061-4410

Phone: (804) 693-6694



In Reply Refer To:

05/20/2025 17:26:18 UTC

Project Code: 2025-0099146

Project Name: North Dumbarton Culvert Replacement

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 enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see <https://www.fws.gov/program/migratory-bird-permit/what-we-do>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see <https://www.fws.gov/library/collections/threats-birds>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/partner/council-conservation-migratory-birds>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Project Code 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
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds

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:

Virginia Ecological Services Field Office

6669 Short Lane

Gloucester, VA 23061-4410

(804) 693-6694

PROJECT SUMMARY

Project Code: 2025-0099146

Project Name: North Dumbarton Culvert Replacement

Project Type: Culvert Repair/Replacement/Maintenance

Project Description: The proposed project involves replacing an existing culvert that carries Little Pimmit Run under North Dumbarton Street in Arlington, Virginia. The existing culvert has reached the end of its useful life and is in need of replacement. The culvert is also undersized for the location leading to Little Pimmit Run overflowing the top of the culvert. The new culvert will be an open span arch design which will better allow high flow events. The culvert replacement project aims to provide a long-term solution for the residents of N. Dumbarton Street, improving their quality of life and reducing the risk of flood damage to properties. Furthermore, the project will contribute to the overall health and sustainability of the Little Pimmit Run watershed.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@38.91355085,-77.14267915596763,14z>



Counties: Arlington County, Virginia

ENDANGERED SPECIES ACT SPECIES

There is a total of 3 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.

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	Endangered
Tricolored Bat <i>Perimyotis subflavus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515	Proposed Endangered

INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> There is proposed critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

CRITICAL HABITATS

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

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

BALD & GOLDEN EAGLES

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act ² and the Migratory Bird Treaty Act (MBTA) ¹. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their habitats, should follow appropriate regulations and consider implementing appropriate avoidance and minimization measures, as described in the various links on this page.

-
1. The [Bald and Golden Eagle Protection Act](#) of 1940.
 2. The [Migratory Birds Treaty Act](#) of 1918.

3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

BALD & GOLDEN EAGLES INFORMATION WAS NOT AVAILABLE WHEN THIS SPECIES LIST WAS GENERATED. PLEASE CONTACT THE FIELD OFFICE FOR FURTHER INFORMATION.

MIGRATORY BIRDS

The Migratory Bird Treaty Act (MBTA) ¹ prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service). The incidental take of migratory birds is the injury or death of birds that results from, but is not the purpose, of an activity. The Service interprets the MBTA to prohibit incidental take.

-
1. The [Migratory Birds Treaty Act](#) of 1918.
 2. The [Bald and Golden Eagle Protection Act](#) of 1940.
 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

MIGRATORY BIRD INFORMATION WAS NOT AVAILABLE WHEN THIS SPECIES LIST WAS GENERATED. PLEASE CONTACT THE FIELD OFFICE FOR FURTHER INFORMATION.

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Robert Hayler
Address: 8401 Arlington Boulevard
City: Fairfax
State: VA
Zip: 22031
Email: rhayler@dewberry.com
Phone: 7038490147

Endangered Species Act Review

DETERMINATION KEY

FHWA, FRA, FTA Programmatic Consultation for Transportation Projects affecting IBAT, NLEB, or TCB

Release date: May 21, 2025

You completed the latest version of this key, published May 21, 2025, and reached a determination of may affect - not likely to adversely affect for species or critical habitats covered by the key.

This decision key is intended for projects/activities funded or authorized by the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), and/or Federal Transit Administration (FTA), which may require consultation with the U.S. Fish and Wildlife Service (Service) under Section 7 of the Endangered Species Act (ESA) and may affect the federally listed endangered Indiana bat (*Myotis sodalis*), northern long-eared bat (*Myotis septentrionalis*), and/or federally proposed endangered tricolored bat (*Perimyotis subflavus*).

This decision key should only be used to verify project applicability with the Service's Programmatic Biological Opinion/Conference Opinion for Transportation Projects in the Range of the Indiana bat, northern long-eared bat, and tricolored bat, dated December 13, 2024. The programmatic consultation limited transportation activities that may affect the covered bat species and addresses situations that are both likely and not likely to adversely affect the covered bat species. This decision key will assist in identifying the effect of a specific project/activity and the applicability of the programmatic consultation. The programmatic consultation is not intended to cover all types of transportation actions. Activities outside the scope of the programmatic consultation, or that may affect ESA-listed species other than the Indiana bat, northern long-eared bat, or tricolored bat, or their designated critical habitat, may require additional ESA Section 7 consultation.

Species covered by this key

This key covers the following species expected to occur in this project area:

Northern Long-eared Bat *Myotis septentrionalis*
Tricolored Bat *Perimyotis subflavus*

The following species, also covered by this key, are not expected to occur in this project area:

Indiana Bat *Myotis sodalis*

Critical habitats covered by this key

This key covers the critical habitats for the following species expected to occur in this project area:

None

For more information about this determination key, including a list of all potential questions, refer to the [detailed overview](#).

Qualification interview

1. Which Federal Agency is the lead federal agency the action?

☒ A) Federal Highway Administration (FHWA)

2. Does the Action Area intersect the species list area of the Northern long-eared bat?

☒ Automatically answered

Yes

3. Does the Action Area intersect the species list area of the tricolored Bat (TCB)?

☒ Automatically answered

Yes

4. Does your project's activities include raising the road profile above the tree canopy in documented habitat for the Indiana bat, NLEB, or TCB?

Note: For the definition of documented habitat, refer to Appendix A: <https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat>

☒ No

5. Is your project located within a karst area?

☒ No

6. Will the project include bridge, culvert, or structure removal, replacement, and/or alteration activities?

Note: For definitions of bridge, culvert, and structure, refer to Appendix A:

<https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat>.

☒ Yes

7. Do your project's activities involve tree removal/trimming, temporary lighting, new/additional permanent lighting, ground disturbance, percussives that involves noise/vibration above existing background levels, vibrations, or slash pile burning?

☒ Yes

8. Is there suitable summer habitat for the Indiana bat, NLEB, or TCB within the project action area?

Note: See the Service's summer survey guidance for current definitions of suitable habitat

[<https://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html>].

☒ Yes

9. Have P/A surveys for the Indiana bat, NLEB, or TCB been conducted within the suitable summer habitat located within your project action area? This refers to mist-netting or acoustic surveys, not bridge assessments.

Note: See the Service's survey guidance

<https://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html>

☒ No

10. Will the project involve the removal or trimming of trees within suitable habitat for the Indiana bat, NLEB, or TCB?

☒ Yes

11. Will any tree removal or trimming occur during the bat pup season?

Note: For more information about bat pup seasons please visit

https://www.fws.gov/sites/default/files/documents/2024-10/2024_usfws_rangewide_ibat-nleb_survey_guidelines.pdf

☒ No

12. Will the removal or trimming of trees occur **within documented habitat** for the Indiana bat, NLEB, or TCB?

Note: For the definition of documented habitat, refer to Appendix A: <https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat>

☒ No

13. Will all tree removal or trimming occur within 100 feet of the road or rail surface?

☒ Yes

14. Does your project include activities involving the temporary or permanent exclusion of Indiana bats, NLEBs, or TCBs from a bridge/culvert or structure?

Note: exclusion is conducted to deny bats' entry or reentry into a bridge/culvert or structure. To be effective and to avoid harming bats, it should be done according to established standards.

☒ No

15. Does your project involve the use of temporary lighting within Indiana bat, NLEB, or TCB suitable habitat?

Note: For the definition of lighting, refer to Appendix A: <https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat>

☒ No

16. Will the project substantially increase baseline light conditions via the use of permanent lighting (replacement or new/additional) in suitable habitat.

☒ No

17. Will your project include percussive activities?

Note: Refer to Stressor #2 Noise/Vibration on page 109 of the PBO/PCO.

☒ No

18. Will the project include **bridge** removal, replacement, and/or alteration activities?

☒ No

19. Does the project include **culvert** removal, replacement, and/or alteration activities?

☒ Yes

20. Does the culvert equal or exceed 23 feet (7.0 meters) in length?

☒ Yes

21. Are the interior dimensions of the culvert less than 3 ft. in diameter/height?

☒ No

22. Has a Culvert Bat Assessment been conducted within the last 24 months to determine if the culvert is being used by the Indiana bat, NLEB, or TCB? If yes, upload assessment.

Note: Refer to the Service's current survey guidance for acceptable assessment practices and validity timeframe of bridge/culvert and structure bat assessments:

<https://www.fws.gov/library/collections/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

☒ Yes

23. Please select one of the following results of the Culvert Bat Assessment:

☒ c) Did not detect any signs of Indiana bats, NLEBs, or TCBs roosting in/under the culvert (bats, guano, etc.)

24. Does the project include **structure** removal, replacement, and/or alteration activities?

☒ No

25. Will the project involve the removal or trimming of more than 20 acres of Indiana bat, NLEB, or TCB suitable habitat per 5-mile section of road/rail?

☒ No

26. Will the removal or trimming of trees occur within 0.5 miles of a known Indiana bat, NLEB, or TCB hibernaculum?

☒ No

27. Will the removal or trimming of these trees occur during the active season?

☒ No

28. Will the removal or trimming of trees occur beyond 100 feet of the existing road/rail surfaces?

☒ No

29. Does the Action Area intersect the species list area of the tricolored Bat (TCB)?

☒ **Automatically answered**

Yes

30. Does the Action Area intersect the species list area of the northern long-eared bat (NLEB)?

☒ **Automatically answered**

Yes

Conservation measures

GAMM1

Ensure all operators, employees, and contractors working in areas of Indiana bat, NLEB, or TCB suitable habitat are aware of all Transportation Agency environmental commitments, including all applicable AMMs.

TRTAMM1

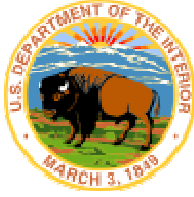
Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to the extent practicable to avoid tree removal/trimming in excess of what is required to implement the project safely.

TRTAMM2

Ensure tree removal/trimming is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree removal/trimming to ensure contractors stay within clearing limits

TRTAMM3

Ensure tree removal/trimming is limited to the inactive season, occurs within 100 ft of the road/rail surface, and is outside of documented habitat for the Indiana bat, NLEB, and TCB



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In Reply Refer To:
Project code: 2025-0099146
Project Name: North Dumbarton Culvert Replacement

05/21/2025 15:22:36 UTC

Subject: Not Likely to Adversely Affect Technical assistance letter for the 'North Dumbarton Culvert Replacement' project under the December 13, 2024, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat, Northern Long-eared Bat, and Tricolored Bat.

To whom it may concern:

This letter records the determination of effects to federally listed (or proposed) bat species anticipated to result from the North Dumbarton Culvert Replacement (the Project). This determination is based upon information you entered into the assisted determination key (Dkey) associated with the above referenced Programmatic Biological Opinion/Conference Opinion (PBO/PCO) in the U.S. Fish and Wildlife Service's (Service) Information for Planning and Consultation (IPaC) system on the date listed above. **This letter does not satisfy compliance requirement under section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (16 USC 1536), as amended.** Those requirements will be met upon taking the actions described below.

Ensuring Accurate Determinations When Using IPaC:

The Service developed the IPaC system and this Dkey in accordance with the ESA and based on the PBO/PCO. All information submitted by the project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in the Dkey invalidates this letter. Answers to certain questions in the Dkey commit the project proponent to implementation of conservation measures that must be followed for the ESA determinations to remain valid. Carefully review this letter, your ESA requirements are NOT yet complete.

Determinations:

Based on the information you provided (Project Description shown below), you have determined that the Project is within the scope and adheres to the criteria of the PBO/PCO, including the

adoption of applicable avoidance and minimization measures. Based on your IPaC submission and the PBO/PCO, the Project is consistent with the following effect determinations:

Species	Listing Status	Determination
Northern Long-eared Bat (<i>Myotis septentrionalis</i>)	Endangered	NLAA
Tricolored Bat (<i>Perimyotis subflavus</i>)	Proposed	NLAA
	Endangered	

The tricolored bat is proposed for listing as endangered under the ESA, but not yet listed. For actions that may affect a proposed species, agencies cannot consult, but they can confer under the authority of section 7(a)(4) of the ESA. Such conferences can follow the procedures for a consultation and be adopted as such if and when the proposed species is listed. Should the tricolored bat be listed, agencies must review projects that are not yet complete, or projects with ongoing effects within the tricolored bat range that previously received a no effect or not likely to adversely affect (NLAA) determination from the key to confirm that the determination is still accurate.

This "may affect - not likely to adversely affect" determination becomes effective when the lead Federal action agency or designated non-federal representative requests the Service rely on the PBO/PCO to satisfy the agency's consultation requirements for this project. **To fulfill the next steps in the consultation process, add the lead Federal action agency or designated non-federal representative as a Project Member in the IPaC system and provide this letter to the lead Federal action agency or its designated non-federal representative with a request for review, and as the agency deems appropriate, submit for concurrence verification through the IPaC system. ESA section 7 compliance for this Proposed Action is NOT yet complete until the Federal action agency or its designated non-federal representative receives a not likely to adversely affect verification letter from the Service IPaC system.**

If the Project is modified, or new information reveals that it may affect the Indiana bat, northern long-eared bat, or tricolored bat in a manner or to an extent not considered in the PBO/PCO, further review to conclude the requirements of ESA section 7(a)(2) may be required.

For Proposed Actions that include bridge/culvert or structure removal, replacement, and/or maintenance activities:

If your initial bridge, culvert, or structure assessment failed to detect Indiana bat, northern long-eared bat, or tricolored bat use or occupancy, yet bats are later detected prior to, or during construction, promptly notify the local Service Field Office within 2 working days of the discovery. In addition, please document whether incidental take occurred, and if so, the type (i.e. kill or harm) and amount (i.e. number of individuals) and submit documentation to the local Service Field Office within 5 working days from the completion of the bridge, culvert, or structure construction (use Appendix E - Post Assessment Discovery of Bats at Bridge/Culvert or Structure Form in the [User's Guide](#)). In these instances, potential incidental take of Indiana bats, northern long-eared bats, or tricolored bats may be exempted provided that the take is reported to

the Service. In these instances, potential incidental take of Indiana bats, northern long-eared bats, or tricolored bats may be exempted provided that the take is reported to the Service.

If the Project may affect any other federally listed or proposed species and/or designated critical habitat, additional consultation between the lead Federal action agency and this Service Field Office is required for those species/designated critical habitat. If the Project has the potential to take bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act may also be required. In either of these circumstances, please advise the lead Federal action agency to contact this Service Field Office

The following species may occur in your project area and **are not** covered by this determination:

- Monarch Butterfly *Danaus plexippus* Proposed Threatened

PROJECT DESCRIPTION

The following project name and description was collected in IPaC as part of the endangered species review process.

NAME

North Dumbarton Culvert Replacement

DESCRIPTION

The proposed project involves replacing an existing culvert that carries Little Pimmit Run under North Dumbarton Street in Arlington, Virginia. The existing culvert has reached the end of its useful life and is in need of replacement. The culvert is also undersized for the location leading to Little Pimmit Run overflowing the top of the culvert. The new culvert will be an open span arch design which will better allow high flow events. The culvert replacement project aims to provide a long-term solution for the residents of N. Dumbarton Street, improving their quality of life and reducing the risk of flood damage to properties. Furthermore, the project will contribute to the overall health and sustainability of the Little Pimmit Run watershed.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@38.91355085,-77.14267915596763,14z>



DETERMINATION KEY RESULT

Based on your answers provided, this project(s) may affect, but is not likely to adversely affect the Indiana bat, northern long-eared bat or tricolored bat, therefore, consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended 16 U.S.C. 1531 et seq.) is required. However, also based on your answers provided, this project may rely on the concurrence provided in the Programmatic Biological Opinion/Conference Opinion for Transportation Projects in the Range of the Indiana bat, northern long-eared bat, and tricolored bat, dated December 13, 2024.

QUALIFICATION INTERVIEW

1. Which Federal Agency is the lead federal agency the action?

A) Federal Highway Administration (FHWA)

2. Does the Action Area intersect the species list area of the Northern long-eared bat?

Automatically answered

Yes

3. Does the Action Area intersect the species list area of the tricolored Bat (TCB)?

Automatically answered

Yes

4. Does your project's activities include raising the road profile above the tree canopy in documented habitat for the Indiana bat, NLEB, or TCB?

Note: For the definition of documented habitat, refer to Appendix A: <https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat>

No

5. Is your project located within a karst area?

No

6. Will the project include bridge, culvert, or structure removal, replacement, and/or alteration activities?

Note: For definitions of bridge, culvert, and structure, refer to Appendix A: <https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat>.

Yes

7. Do your project's activities involve tree removal/trimming, temporary lighting, new/additional permanent lighting, ground disturbance, percussives that involves noise/vibration above existing background levels, vibrations, or slash pile burning?

Yes

8. Is there suitable summer habitat for the Indiana bat, NLEB, or TCB within the project action area?

Note: See the Service's summer survey guidance for current definitions of suitable habitat [<https://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html>].

Yes

9. Have P/A surveys for the Indiana bat, NLEB, or TCB been conducted within the suitable summer habitat located within your project action area? This refers to mist-netting or acoustic surveys, not bridge assessments.

Note: See the Service's survey guidance <https://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html>

No

10. Will the project involve the removal or trimming of trees within suitable habitat for the Indiana bat, NLEB, or TCB?

Yes

11. Will any tree removal or trimming occur during the bat pup season?

Note: For more information about bat pup seasons please visit https://www.fws.gov/sites/default/files/documents/2024-10/2024_usfws_rangewide_ibat-nleb_survey_guidelines.pdf

No

12. Will the removal or trimming of trees occur **within documented habitat** for the Indiana bat, NLEB, or TCB?

Note: For the definition of documented habitat, refer to Appendix A: <https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat>

No

13. Will all tree removal or trimming occur within 100 feet of the road or rail surface?

Yes

14. Does your project include activities involving the temporary or permanent exclusion of Indiana bats, NLEBs, or TCBs from a bridge/culvert or structure?

Note: exclusion is conducted to deny bats' entry or reentry into a bridge/culvert or structure. To be effective and to avoid harming bats, it should be done according to established standards.

No

15. Does your project involve the use of temporary lighting within Indiana bat, NLEB, or TCB suitable habitat?

Note: For the definition of lighting, refer to Appendix A: <https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat>

No

16. Will the project substantially increase baseline light conditions via the use of permanent lighting (replacement or new/additional) in suitable habitat.

No

17. Will your project include percussive activities?

Note: Refer to Stressor #2 Noise/Vibration on page 109 of the PBO/PCO.

No

18. Will the project include **bridge** removal, replacement, and/or alteration activities?

No

19. Does the project include **culvert** removal, replacement, and/or alteration activities?

Yes

20. Does the culvert equal or exceed 23 feet (7.0 meters) in length?

Yes

21. Are the interior dimensions of the culvert less than 3 ft. in diameter/height?

No

22. Has a Culvert Bat Assessment been conducted within the last 24 months to determine if the culvert is being used by the Indiana bat, NLEB, or TCB? If yes, upload assessment.

Note: Refer to the Service's current survey guidance for acceptable assessment practices and validity timeframe of bridge/culvert and structure bat assessments: <https://www.fws.gov/library/collections/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines>.

Yes

SUBMITTED DOCUMENTS

- *Dumbarton South.pdf* <https://ipac.ecosphere.fws.gov/project/JDIBPFXS3RHE7PRTAY27HXX2U/projectDocuments/162335912>

23. Please select one of the following results of the Culvert Bat Assessment:

c) Did not detect any signs of Indiana bats, NLEBs, or TCBs roosting in/under the culvert (bats, guano, etc.)

24. Does the project include **structure** removal, replacement, and/or alteration activities?

No

25. Will the project involve the removal or trimming of more than 20 acres of Indiana bat, NLEB, or TCB suitable habitat per 5-mile section of road/rail?

No

26. Will the removal or trimming of trees occur within 0.5 miles of a known Indiana bat, NLEB, or TCB hibernaculum?

No

27. Will the removal or trimming of these trees occur during the active season?

No

28. Will the removal or trimming of trees occur **beyond 100 feet** of the existing road/rail surfaces?

No

29. Does the Action Area intersect the species list area of the tricolored Bat (TCB)?

Automatically answered

Yes

30. Does the Action Area intersect the species list area of the northern long-eared bat (NLEB)?

Automatically answered

Yes

PROJECT QUESTIONNAIRE

1. Have you made a No Effect determinations for all other species included on the FWS IPaC generated species list?

No

2. Have you made a May Affect determination for any other species on the FWS IPaC generated list?

Yes

3. How many acres of trees are proposed for removal/trimming **outside of documented habitat** for the Indiana bat, NLEB, or TCB within 100 feet of the existing road/rail surfaces during the inactive season (NLAA)?

Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

0.10

4. How many acres of trees are proposed for removal/trimming **outside of documented habitat** for the Indiana bat, NLEB, or TCB within 100 feet of the existing road/rail surfaces during the active season (**outside the pup season and not between Dec 15th-Feb 15th in Zone 1 of the NLEB and TCB YR active areas**) (LAA)?

Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

0

5. How many acres of trees are proposed for removal/trimming **outside of documented habitat** for the Indiana bat, NLEB, or TCB within 100 feet of the existing road/rail surfaces during the pup season (**trees must be <9 in DBH, and not between Dec 15th-Feb 15th in Zone 1 of the NLEB and TCB YR active areas**) (LAA)?

Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

0

6. How many acres of trees are proposed for removal/trimming **either outside or within documented habitat** for the Indiana bat, NLEB, or TCB between 100-300 feet of the existing road/rail surface during the inactive season (LAA)? Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

0

7. How many acres of trees are proposed for removal/trimming **either outside or within documented habitat** for the Indiana bat, NLEB, or TCB between 100-300 feet of the existing road/rail surfaces during the active season (**outside the pup season, and not between Dec 15-Feb 15 in Zone 1 of the NLEB and TCB YR active areas**) (LAA)?

Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

0

8. How many acres of trees are proposed for removal/trimming **either outside or within documented habitat** for the Indiana bat, NLEB, or TCB beyond 300 feet of the existing road/rail surfaces during the inactive season (LAA)?

Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

0

9. How many acres of trees are proposed for removal/trimming **either outside or within documented habitat** for the Indiana bat, NLEB, or TCB beyond 300 feet of the existing road/rail surfaces during the active season (**outside the pup season, and not between Dec 15th-Feb 15th in Zone 1 of the NLEB and TCB YR active areas**) (LAA)?

Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

0

10. Please enter the date of the culvert assessment.

12/13/2024

AVOIDANCE AND MINIMIZATION MEASURES (AMMS)

This determination key result includes the commitment to implement the following Avoidance and Minimization Measures (AMMs):

GAMM1

Ensure all operators, employees, and contractors working in areas of Indiana bat, NLEB, or TCB suitable habitat are aware of all Transportation Agency environmental commitments, including all applicable AMMs.

TRTAMM1

Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to the extent practicable to avoid tree removal/trimming in excess of what is required to implement the project safely.

TRTAMM2

Ensure tree removal/trimming is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree removal/trimming to ensure contractors stay within clearing limits

TRTAMM3

Ensure tree removal/trimming is limited to the inactive season, occurs within 100 ft of the road/rail surface, and is outside of documented habitat for the Indiana bat, NLEB, and TCB

DETERMINATION KEY DESCRIPTION: FHWA, FRA, FTA PROGRAMMATIC CONSULTATION FOR TRANSPORTATION PROJECTS AFFECTING IBAT, NLEB, OR TCB

This key was last updated in IPaC on May 21, 2025. Keys are subject to periodic revision.

This decision key is intended for projects/activities funded or authorized by the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), and/or Federal Transit Administration (FTA), which may require consultation with the U.S. Fish and Wildlife Service (Service) under Section 7 of the Endangered Species Act (ESA) and may affect the federally listed endangered Indiana bat (*Myotis sodalis*), northern long-eared bat (*Myotis septentrionalis*), and/or federally proposed endangered tricolored bat (*Perimyotis subflavus*).

This decision key should only be used to verify project applicability with the Service's Programmatic Biological Opinion/Conference Opinion for Transportation Projects in the Range of the Indiana bat, northern long-eared bat, and tricolored bat, dated December 13, 2024. The programmatic consultation limited transportation activities that may affect the covered bat species and addresses situations that are both likely and not likely to adversely affect the covered bat species. This decision key will assist in identifying the effect of a specific project/activity and the applicability of the programmatic consultation. The programmatic consultation is not intended to cover all types of transportation actions. Activities outside the scope of the programmatic consultation, or that may affect ESA-listed species other than the Indiana bat, northern long-eared bat, or tricolored bat, or their designated critical habitat, may require additional ESA Section 7 consultation.

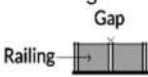
IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Robert Hayler
Address: 8401 Arlington Boulevard
City: Fairfax
State: VA
Zip: 22031
Email: rhayler@dewberry.com
Phone: 7038490147

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Highway Administration

Bridge/Culvert Bat Assessment Form

Date & Time of Assessment	DOT Project Number or IPaC Code	Route/Facility Carried	County
Federal Structure ID	Structure Coordinates (latitude and longitude)	Structure Height (approximate)	Structure Length
Structure Type (check one)		Structure Material (check all that apply)	
Bridge Construction Style		Deck Material	Beam Material
☐ Cast-in-place 	☐ Pre-stressed Girder 	☐ Metal ☐ Concrete ☐ Timber ☐ Open grid ☐ Other:	☐ None ☐ Concrete ☐ Steel ☐ Timber ☐ Other:
☐ Flat Slab/Box 	☐ Steel I-beam 	☐ End/Back Wall Material ☐ Concrete ☐ Timber ☐ Stone/Masonry ☐ Other:	
☐ Truss 	☐ Covered 	Creosote Evidence ☐ Yes ☐ No	
☐ Parallel Box Beam 	☐ Other:	Culvert Material ☐ Metal ☐ Concrete ☐ Plastic ☐ Stone/Masonry ☐ Other:	☐ Unknown Notes:
Culvert Type		Other Structure	
☐ Box ☐ Pipe/Round ☐ Other:		☐ Box ☐ Pipe/Round ☐ Other:	
Crossings Traversed (check all that apply)		Surrounding Habitat (check all that apply)	
☐ Bare ground ☐ Rip-rap ☐ Flowing water ☐ Standing water ☐ Seasonal water		☐ Open vegetation ☐ Closed vegetation ☐ Railroad ☐ Road/trail - Type: ☐ Other:	
☐ Agricultural ☐ Commercial ☐ Residential-urban ☐ Residential-rural ☐ Woodland/forested		☐ Grassland ☐ Ranching ☐ Riparian/wetland ☐ Mixed use ☐ Other:	
Areas Assessed (check all that apply)			
Check all areas that apply. If an area is not present in the structure, check the "not present" box.			
Document all bat indicators observed during the assessment. Include the species present, if known, and provide photo documentation as indicated.			
Area (check if assessed)	Assessment Notes	Evidence of Bats (include photos if present)	
☐ All crevices and cracks: Bridges/culverts: rough surfaces or imperfections in concrete Other structures: soffits, rafters, attic areas	☐ Not present ☐	☐ Visual - live # dead # ☐ Guano ☐ Staining	☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Concrete surfaces (open roosting on concrete)	☐ Not present ☐	☐ Visual - live # dead # ☐ Guano ☐ Staining	☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Spaces between concrete end walls and the bridge deck	☐ Not present ☐	☐ Visual - live # dead # ☐ Guano ☐ Staining	☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Crack between concrete railings on top of the bridge deck 	☐ Not present ☐	☐ Visual - live # dead # ☐ Guano ☐ Staining	☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Vertical surfaces on concrete I-beams	☐ Not present ☐	☐ Visual - live # dead # ☐ Guano ☐ Staining	☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Spaces between walls, ceiling joists	☐ Not present ☐	☐ Visual - live # dead # ☐ Guano ☐ Staining	☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ Weep holes, scupper drains, and inlets/pipes	☐ Not present ☐	☐ Visual - live # dead # ☐ Guano ☐ Staining	☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ All guiderails	☐ Not present ☐	☐ Visual - live # dead # ☐ Guano ☐ Staining	☐ Audible ☐ Odor ☐ Photos ☐ Species
☐ All expansion joints	☐ Not present ☐	☐ Visual - live # dead # ☐ Guano ☐ Staining	☐ Audible ☐ Odor ☐ Photos ☐ Species
Name:		Signature: 	

**CULVERT ASSESSMENT SITE PHOTOGRAPHS
NORTH DUMBBARTON STREET - SOUTH
WSSI #32073.01**



1. Looking downstream at the openings of the southern culverts. Some staining is present, attributed to weather and prolonged exposure and/or water and mineral leaching.



2. Looking downstream at the openings of the southern culverts. Some staining is present, attributed to weather and prolonged exposure and/or water and mineral leaching.

**CULVERT ASSESSMENT SITE PHOTOGRAPHS
NORTH DUMBARTON STREET - SOUTH
WSSI #32073.01**



3. Looking downstream through the southern culvert. Some staining is present, attributed to running water and mineral leaching. No evidence of bats within the pipe ridges or wall crevices.



4. Looking downstream through the southern culvert. Some staining present, attributed to running water and mineral leaching. No bats seen in the pipe ridges or wall crevices.

**CULVERT ASSESSMENT SITE PHOTOGRAPHS
NORTH DUMBARTON STREET - SOUTH
WSSI #32073.01**

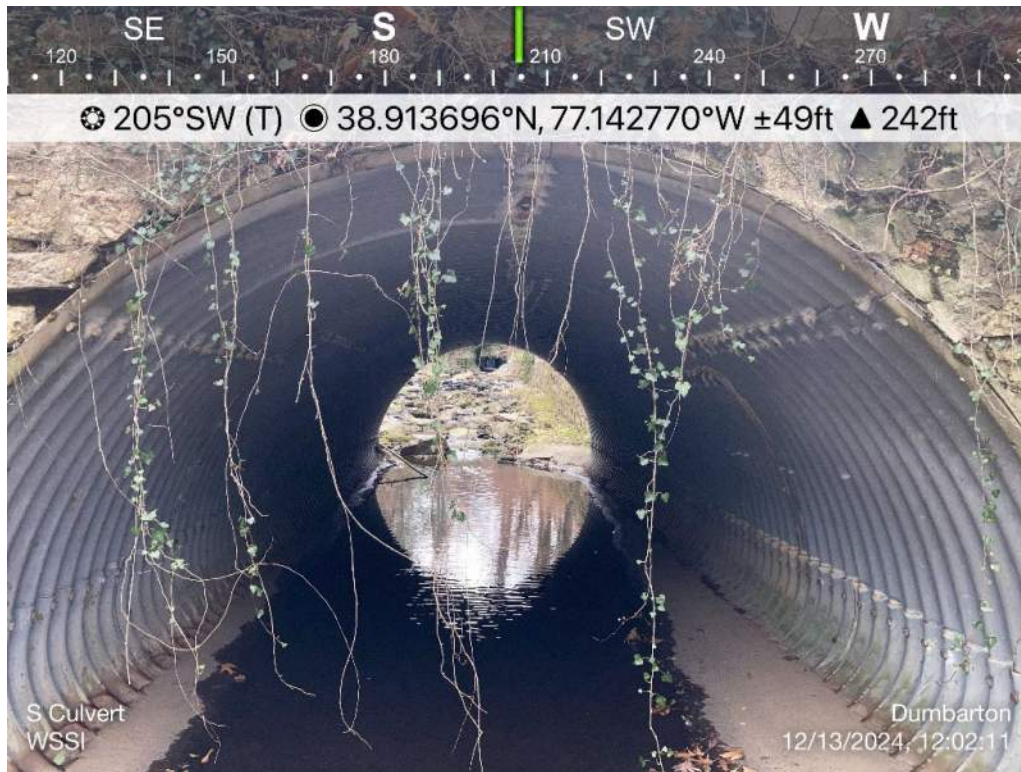


5. Looking at the top of the southern culvert. Some staining present, but there were no signs of bats in the pipe ridges or where the pipes overlap. Attributed to running water and mineral leaching.



6. Looking at the retaining wall outside of the southern culvert. Some staining is present, attributed to weather and prolonged exposure. No bats seen in between the stones.

**CULVERT ASSESSMENT SITE PHOTOGRAPHS
NORTH DUMBARTON STREET - SOUTH
WSSI #32073.01**



7. Looking through the southern culvert. No bats seen in the pipe ridges or wall crevices.



8. Looking through the southern culvert. Some staining present, attributed to running water and mineral leaching. No bats seen in the pipe ridges or wall crevices.

**VAFWIS - Department
of Wildlife Resources**

38.91423 -77.14334

is the Search Point

Submit

Cancel

Search Point

- ☒ **Change** to "clicked" map point
- ☐ **Fixed** at 38.91423
-77.14334

Show Position Rings

- ☒ Yes ☐ No

1 mile and 1/4 mile at the
Search Point

Show Search Area

- ☒ Yes ☐ No

radius	2 Search distance miles
--------	-------------------------

Search Point is at
map center

Base Map Choices

Topography

Map Overlay Choices

Current List: Anadromous,
TEWaters, Trout, TierII,
Habitat, Position, Search

[back](#)Map
Click

Pan

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Map
Scale

In

[Refresh Browser Page](#)

Zoom



Screen
Size

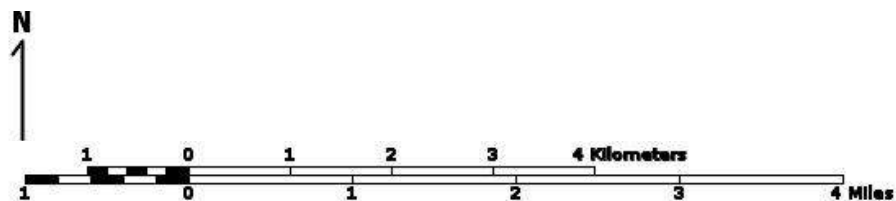
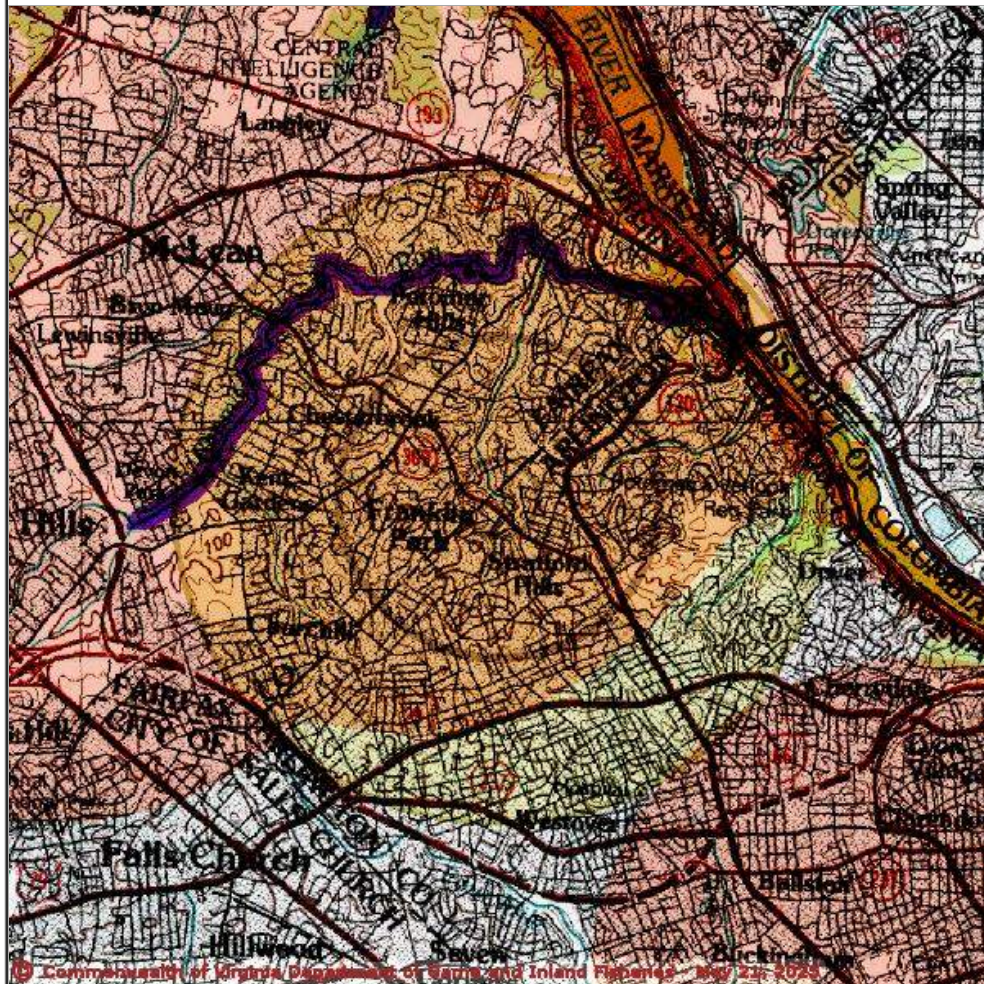
en **Small**

Size

Age Group	Percentage
18-24	15%
25-34	35%
35-44	25%
45-54	20%
55-64	10%
65+	15%



[Help](#)



Point of Search 38.91423 -77.14334

Map Location 38.91423 -77.14334

Select **Coordinate System:** ☐ Degrees,Minutes,Seconds Latitude - Longitude

- ☒ Decimal Degrees Latitude - Longitude
☐ Meters UTM NAD83 East North Zone
☐ Meters UTM NAD27 East North Zone

Base Map source: USGS 1:100,000 topographic maps (see [Microsoft terraserver-usa.com](https://terraserver-usa.com) for details)

Map projection is UTM Zone 18 NAD 1983 with left 309373 and top 4314244. Pixel size is 16 meters . Coordinates displayed are decimal Degrees North and West. Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixels. The map display represents 9600 meters east to west by 9600 meters north to south for a total of 92.1 square kilometers. The map display represents 31501 feet east to west by 31501 feet north to south for a total of 35.5 square miles.

Map Overlay Legend

T & E Waters

Federal

State

Predicted Habitat WAP Tier I & II

Aquatic

Terrestrial

Trout Waters

Class I - IV

Class V - VI

Anadromous Fish Reach

Confirmed

Potential

 Impediment

 Position Rings
at the Search
Point

 2 mile radius
Search Area

 Data
Observation Site
2 Mile WAP Tier I+II

Topographic maps and Black and white aerial photography for year 1990+- are from the United States Department of the Interior, United States Geological Survey. Color aerial photography aquired 2002 is from Virginia Base Mapping Program, Virginia Geographic Information Network. Shaded topographic maps are from TOPO! ©2006 National Geographic <http://www.national.geographic.com/topo> All other map products are from the Commonwealth of Virginia Department of Wildlife Resources.

map assembled 2025-05-21 12:44:06 (qa/qc March 21, 2016 12:20 - tn=3710030 dist=3218 I)
\$poi=38.9142387 -77.1433443

Home » **By Coordinates** » VaFWIS GeographicSelect Options

Fish and Wildlife Information Service

Options

Species Information

By Name

By Land Management

References

Geographic Search

By Map

By Coordinates

By Place Name

Database Search

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VaFWIS Search Report Compiled on 5/21/2025, 12:45:16 PM

Known or likely to occur within a **2 mile radius around point 38.9142387 -77.1433442**
in **013 Arlington County, 059 Fairfax County, VA**

[View Map of Site Location](#)

742 Known or Likely Species ordered by Status Concern for Conservation
(displaying first 33) (33 species with Status* or Tier I** or Tier II**)

BOVA Code	Status*	Tier**	Common Name	Scientific Name	Confirmed	Database(s)
050022	FESE	Ia	Bat, Northern Long-eared	Myotis septentrionalis		BOVA
010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus		BOVA
060029	FTST	Ila	Lance, yellow	Elliptio lanceolata		BOVA
050020	SE	Ia	Bat, little brown	Myotis lucifugus	Yes	BOVA,SppObs,HU6
050027	FPSE	Ia	Bat, Tricolored	Perimyotis subflavus		BOVA,HU6
060006	SE	Ib	Floater, brook	Alasmidonta varicosa		BOVA
030062	ST	Ia	Turtle, wood	Glyptemys insculpta	Yes	BOVA,TEWaters,Habitat,SppObs,HU6
040096	ST	Ia	Falcon, peregrine	Falco peregrinus		BOVA
040293	ST	Ia	Shrike, loggerhead	Lanius ludovicianus		BOVA
040379	ST	Ia	Sparrow, Henslow's	Centronyx henslowii		BOVA
100155	ST	Ia	Skipper, Appalachian grizzled	Pyrgus wyandot		BOVA,HU6
040292	ST		Shrike, migrant loggerhead	Lanius ludovicianus migrans		BOVA
100248	FP	Ia	Fritillary, Regal	Speyeria idalia idalia		BOVA,HU6
100079	FP	IIla	Butterfly, Monarch	Danaus plexippus	Yes	BOVA,SppObs,HU6
030063	CC	IIla	Turtle, spotted	Clemmys guttata		BOVA,HU6
010077		Ia	Shiner, bridle	Notropis bifrenatus		BOVA
040040		Ia	Ibis, glossy	Plegadis falcinellus		BOVA,HU6
040306		Ia	Warbler, golden-winged	Vermivora chrysoptera		BOVA
040213		Ic	Owl, northern saw-whet	Aegolius acadicus		BOVA,HU6
040052		Ila	Duck, American black	Anas rubripes		BOVA,HU6
040033		Ila	Egret, snowy	Egretta thula		BOVA
040029		Ila	Heron, little blue	Egretta caerulea caerulea		BOVA
040036		Ila	Night-heron, yellow-crowned	Nyctanassa violacea violacea		BOVA
040181		Ila	Tern, common	Sterna hirundo		BOVA,HU6
040320		Ila	Warbler, cerulean	Setophaga cerulea		BOVA,HU6
040140		Ila	Woodcock, American	Scolopax minor		BOVA,HU6
060071		Ila	Lampmussel, yellow	Lampsilis cariosa		BOVA
040203		Ilb	Cuckoo, black-billed	Coccyzus erythrophthalmus		BOVA
040105		Ilb	Rail, king	Rallus elegans		BOVA,HU6
040304		IIc	Warbler, Swainson's	Limnothlypis swainsonii		BOVA,HU6

070020		Ilc	Amphipod, Pizzini's	Stygobromus pizzinii		HU6
100154		Ilc	Butterfly, Persius duskywing	Erynnis persius persius		BOVA,HU6
100166		Ilc	Skipper, Dotted	Hesperia attalus slossonae		HU6

To view **All 742 species** [View 742](#)

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed; FC=Federal Candidate; CC=Collection Concern

**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need; III=VA Wildlife Action Plan - Tier III - High Conservation Need; IV=VA Wildlife Action Plan - Tier Virginia Wildlife Action Plan Conservation Opportunity Ranking:
a - On the ground management strategies/actions exist and can be feasibly implemented.; b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time.; c - No on the grou

[View Map of All Query Results from All Observation Tables](#)

Bat Colonies or Hibernacula: **Not Known**

Anadromous Fish Use Streams (1 records)

[View Map of All Anadromous Fish Use Streams](#)

Stream ID	Stream Name	Reach Status	Anadromous Fish Species			View Map
			Different Species	Highest TE *	Highest Tier **	
C64	Potomac river	Confirmed	6		IV	Yes

Impediments to Fish Passage

N/A

Colonial Water Bird Survey

N/A

Threatened and Endangered Waters (11 Reaches)

[View Map of All Threatened and Endangered Waters](#)

Stream Name	T&E Waters Species						View Map
	Highest TE *	BOVA Code, Status *, Tier **, Common & Scientific Name					
Pimmit Run (017016)	ST	030062	ST	Ia	Turtle, wood	Glyptemys insculpta	Yes
Pimmit Run (017503)	ST	030062	ST	Ia	Turtle, wood	Glyptemys insculpta	Yes
Pimmit Run (017799)	ST	030062	ST	Ia	Turtle, wood	Glyptemys insculpta	Yes
Pimmit Run (017899)	ST	030062	ST	Ia	Turtle, wood	Glyptemys insculpta	Yes
Pimmit Run (018881)	ST	030062	ST	Ia	Turtle, wood	Glyptemys insculpta	Yes
Pimmit Run (019221)	ST	030062	ST	Ia	Turtle, wood	Glyptemys insculpta	Yes
Pimmit Run (019523)	ST	030062	ST	Ia	Turtle, wood	Glyptemys insculpta	Yes
Pimmit Run (019777)	ST	030062	ST	Ia	Turtle, wood	Glyptemys insculpta	Yes
Pimmit Run (020183)	ST	030062	ST	Ia	Turtle, wood	Glyptemys insculpta	Yes
Pimmit Run (021030)	ST	030062	ST	Ia	Turtle, wood	Glyptemys insculpta	Yes
Pimmit Run (024895)	ST	030062	ST	Ia	Turtle, wood	Glyptemys insculpta	Yes

Managed Trout Streams

N/A

Bald Eagle Concentration Areas and Roosts

N/A

Bald Eagle Nests

N/A

Species Observations

(192 records - displaying first 20
, 7 Observations with Threatened
or Endangered species)

[View Map of All Query Results](#)
[Species Observations](#)

obsID	class	Date Observed	Observer	Different Specie
230158	SppObs	May 15 2013	R. Reynolds, L. Sturges, T. Caniff, others	1
230159	SppObs	Jul 2 2012	Kate Langwig et al.	2
230157	SppObs	May 15 2012	K. Langwig, J. Hoyt, Leslie Sturges, others	1
85500	SppObs	Jun 29 2000	Andrew Zadnik	1
3131	SppObs	Aug 25 1918	DCR/Div. Natural Heritage	1
364842	SppObs	Jan 1 1900		1
321384	SppObs	Oct 5 2007	Greg Zell	7
649749	SppObs	Jun 29 2023	Ryan Cirbin; David Wong ; Martin Berlett; Brent Hoo	5
649483	SppObs	Jun 29 2023	Ryan Cirbin; David Wong ; Martin Berlett; Brent Hoo	8
649484	SppObs	Jun 29 2023	Ryan Cirbin; David Wong ; Martin Berlett; Brent Hoo	1
649273	SppObs	Jun 21 2023	Ryan Cirbin; David Wong ; Martin Berlett; Brent Hoo	1
633227	SppObs	Oct 13 2015	Rick Browder; Gabriel Darkwah	1
628270	SppObs	Sep 18 2015	Shannon Curtis; Chad Grupe; John Burke; LeAnne Astin	6
613992	SppObs	Oct 23 2011	Chris; Plummer Brock ; Reggi Matt; Lajoie	1
613993	SppObs	Oct 23 2011	Chris; Plummer Brock ; Reggi Matt; Lajoie	8
613994	SppObs	Oct 23 2011	Chris; Plummer Brock ; Reggi Matt; Lajoie	2
613272	SppObs	Sep 14 2011	Jason; Hill Drew; Miller	7
605683	SppObs	Sep 10 2009	Heather; Ambrose Joseph; Sanchirico Chad; Grupe Danielle; Wynne LeAnne; Astin Shannon; Curtis Eric; Forbes	7
603977	SppObs	Aug 13 2009	Heather; Ambrose Joseph; Sanchirico Chad; Grupe Danielle; Wynne LeAnne; Astin Takisha; Cannon Christopher; Mueller	7
600761	SppObs	Aug 13 2009	Heather; Ambrose Joseph; Sanchirico Chad; Grupe Danielle; Wynne LeAnne; Astin Takisha; Cannon	7

Displayed 20 Species Observations

Selected 192 Observations [View all 192 Species Observations](#)

Habitat Predicted for Aquatic WAP Tier I & II Species (1 Reach) [View Map Combined Reaches from Below of Habitat Predicted for WAP Tier I & II Aquatic Species](#)

Stream Name	Tier Species						View Map
	Highest TE *	BOVA Code, Status *, Tier **, Common & Scientific Name					
Pimmit Run (20700101)	ST	030062	ST	Ia	Turtle, wood	Glyptemys insculpta	Yes
Pimmit Run (20700101)	ST	030062	ST	Ia	Turtle, wood	Glyptemys insculpta	Yes

Habitat Predicted for Terrestrial WAP Tier I & II Species

BOVA Code	Status*	Tier**	Common Name	Scientific Name	View Map
040038			Bittern, American	Botaurus lentiginosus	Yes

Virginia Breeding Bird Atlas Blocks (4 records) [View Map of All Query Results](#)
[Virginia Breeding Bird Atlas Blocks](#)

BBA ID	Atlas Quadrangle Block Name	Breeding Bird Atlas Species			View Map
		Different Species	Highest TE *	Highest Tier **	
53204	Falls Church, CE	54		III	Yes
53206	Falls Church, SE	60		III	Yes
54203	Washington West, CW	28		III	Yes
54205	Washington West, SW	65		III	Yes

Public Holdings: (1 names)

Name	Agency	Level
George Washington Memorial National Parkway	National Park Service	Federal

Summary of BOVA Species Associated with Cities and Counties of the Commonwealth of Virginia:

FIPS Code	City and County Name	Different Species	Highest TE	Highest Tier
013	Arlington	458	FESE	I
059	Fairfax	559	FESE	I

USGS 7.5' Quadrangles:
Falls Church
Washington West

USGS NRCS Watersheds in Virginia:

N/A

USGS National 6th Order Watersheds Summary of Wildlife Action Plan Tier I, II, III, and IV Species:

HU6 Code	USGS 6th Order Hydrologic Unit	Different Species	Highest TE	Highest Tier
PL23	Potomac River-Nichols Run-Scott Run	69	FPSE	I
PL24	Potomac River-Pimmit Run	68	FPSE	I
PL25	Potomac River-Fourmile Run	67	FPST	I

Compiled on 5/21/2025, 12:45:17 PM 13710030.0 report=all searchType= R dist= 3218 poi= 38.9142387 -77.1433442
PixelSize=64; Anadromous=0.045156; BBA=0.08311; BECAR=0.040075; Bats=0.038768; Buffer=0.138434; County=0.124295; HU6=0.102249; Impediments=0.043938; Init=0.24815; PublicLands=0.05686; Quad=0.056294; SppObs=0.63901; TEWaters=0.060058; TierReaches=0.118513; TierTerrestrial=0.066226; Total=2.7976; Tracking_BOVA=0.970332; Trout

**Species Observations
where Bat, little brown
(050020) observed
230158**

38,54,51.2 -77,08,36.0
is the Search Point

Display at center	Item Location is not at map center
----------------------	---------------------------------------

Show Position Rings

☒ Yes ☐ No

1 mile and 1/4 mile at the
Search Point

Show Search Area

☒ Yes ☐ No

2 Search distance miles
radius

Search Point is at
map center

Base Map [Choices](#)

Topography

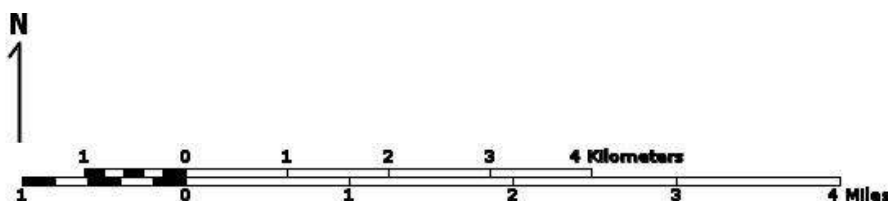
Map Overlay [Choices](#)

Current List: Position, Search,
Observation

Map Overlay Legend



Map Click Map Scale Screen Size [Help](#)



Point of Search 38,54,51.2 -77,08,36.0

Map Location 38,54,51.2 -77,08,36.0

Select **Coordinate System**: ☒ Degrees,Minutes,Seconds Latitude - Longitude
☐ Decimal Degrees Latitude - Longitude
☐ Meters UTM NAD83 East North Zone
☐ Meters UTM NAD27 East North Zone

Base Map source: USGS 1:100,000 topographic maps (see [Microsoft terraserver-usa.com](http://Microsoft.terraserver-usa.com) for details)

Map projection is UTM Zone 18 NAD 1983 with left 309373 and top 4314244. Pixel size is 16 meters . Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixles. The map display represents 9600 meters east to west by 9600 meters north to south for a total of 92.1 square kilometers. The map display represents 31501 feet east to west by 31501 feet north to south for a total of 35.5

square miles.

Topographic maps and Black and white aerial photography for year 1990+- are from the United States Department of the Interior, United States Geological Survey. Color aerial photography aquired 2002 is from Virginia Base Mapping Program, Virginia Geographic Information Network.

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map assembled 2025-05-21 12:46:57 (qa/qc March 21, 2016 12:20 - tn=3710030.1 dist=3218
1)

```
$poi=38.9142387 -77.1433442$query=select xy.x,xy.y, xxvy256.Displace_X,  
xxvy256.Displace_Y, cc.High_TE, obs.FeatType from  
vafwis_tables.dbo.vcvSppObs_XY xy join vafwis_tables.dbo.cvSppObs obs on  
obs.obsID = xy.obsID join vafwis_tables.dbo.cvSppObsSite256 s256 on s256.obsID =  
xy.obsID join vafwis_tables.dbo.cvSppObsSitexxvy256 xxvy256 on xxvy256.obsSite256  
= s256.obsSite256 join vafwis_tables.dbo.cvSppObs_CC cc on cc.obsID = xy.obsID  
JOIN vafwis_tables.dbo.udf_List2Table('230158',') list on list.item = obs.obsID
```

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TE Waters Group
Pimmit Run (017503)

38,54,51.2 -77,08,36.0
is the Search Point

Display ☐ Item Location is
at center not at map center

Show Position Rings

☒ Yes ☐ No

1 mile and 1/4 mile at the
Search Point

Show Search Area

☒ Yes ☐ No

2 Search distance miles
radius

Search Point is at
map center

Base Map [Choices](#)

Topography

Map Overlay [Choices](#)

Current List: Position, Search,
Observation

Map Overlay Legend

T & E Waters

Federal

Selected Federal

State

Selected State



Position Rings
1 mile and 1/4
mile at the
Search Point



2 mile radius
Search Area



Data
Observation Site



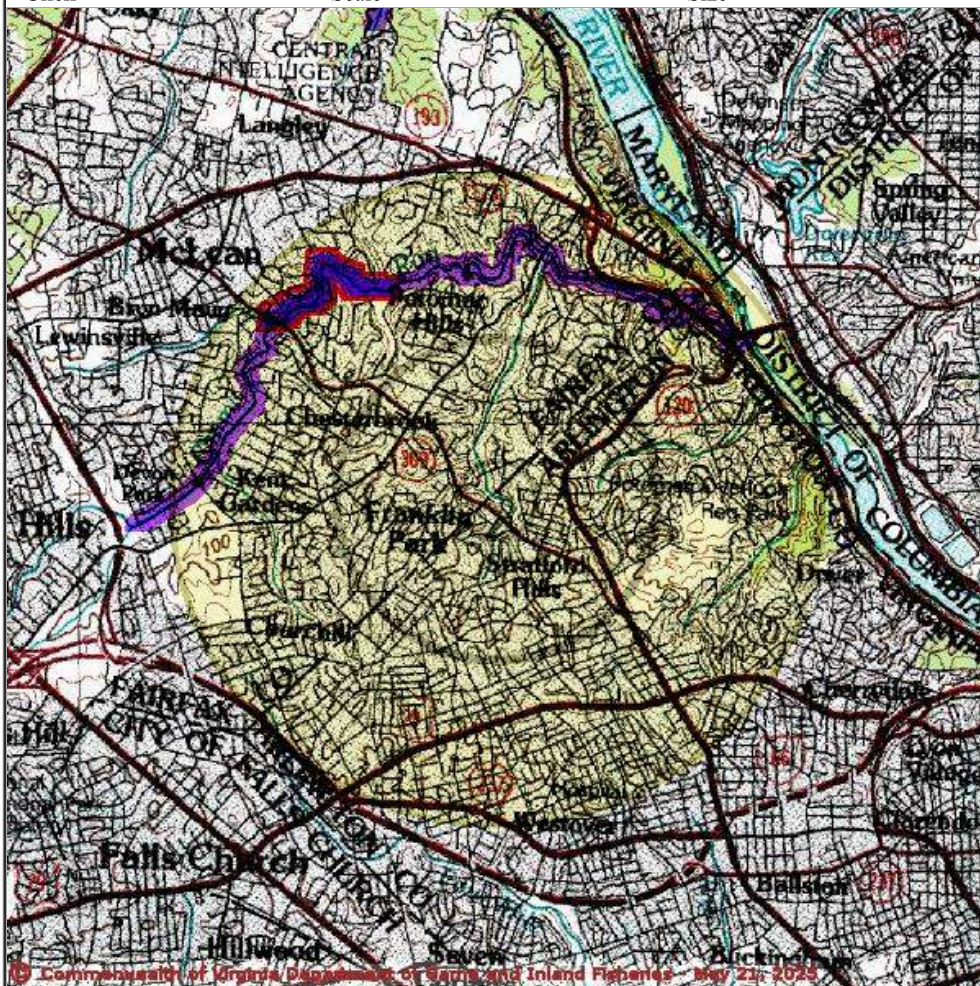
[Refresh Browser Page](#)

Map
Click

Map
Scale

Screen
Size

[Help](#)



Point of Search 38,54,51.2 -77,08,36.0

Map Location 38,54,51.2 -77,08,36.0

Select **Coordinate System**: ☒ Degrees,Minutes,Seconds Latitude - Longitude
☐ Decimal Degrees Latitude - Longitude
☐ Meters UTM NAD83 East North Zone
☐ Meters UTM NAD27 East North Zone

Base Map source: USGS 1:100,000 topographic maps (see [Microsoft terraserver-usa.com](http://Microsoft.terraserver-usa.com) for details)

Map projection is UTM Zone 18 NAD 1983 with left 309373 and top 4314244. Pixel size is 16 meters . Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixles. The map display represents 9600 meters east to west by 9600 meters north to south for a total of 92.1 square kilometers. The map display represents 31501 feet east to west by 31501 feet north to south for a total of 35.5

square miles.

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map assembled 2025-05-21 12:47:57 (qa/qc March 21, 2016 12:20 - tn=3710030.1 dist=3218
1)

\$poi=38.9142387 -77.1433442\$query=select Convert(varchar(10),floor((minx+maxx)/2))
+ '' + Convert(varchar(10),floor((miny+maxy)/2)) from vafwis_tables.dbo.cvTEWaters
where SEG_ID in (017016)

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**Species Observations
where Butterfly,
Monarch (100079)
observed 321384**

38,54,51.2 -77,08,36.0
is the Search Point

Display at center	Item Location is not at map center
----------------------	---------------------------------------

Show Position Rings

☒ Yes ☐ No

1 mile and 1/4 mile at the
Search Point

Show Search Area

☒ Yes ☐ No

2 Search distance miles
radius

Search Point is at
map center

Base Map [Choices](#)

Topography

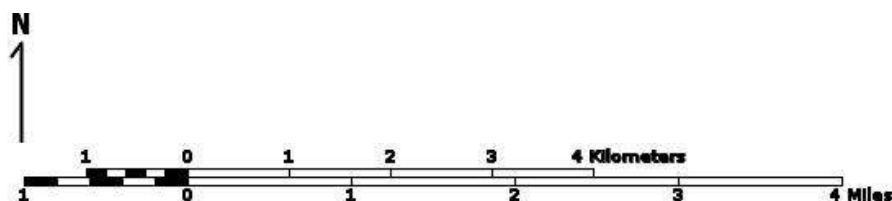
Map Overlay [Choices](#)

Current List: Position, Search,
Observation

Map Overlay Legend



Map Click **Pan** **Id** **M** Map Scale **In** **Zoom** **Out** Screen Size **Small** **Size** **Big** [Help](#) [Refresh Browser Page](#)



Point of Search 38,54,51.2 -77,08,36.0

Map Location 38,54,51.2 -77,08,36.0

Select **Coordinate System**: ☒ Degrees,Minutes,Seconds Latitude - Longitude
☐ Decimal Degrees Latitude - Longitude
☐ Meters UTM NAD83 East North Zone
☐ Meters UTM NAD27 East North Zone

Base Map source: USGS 1:100,000 topographic maps (see [Microsoft terraserver-usa.com](http://Microsoft.terraserver-usa.com) for details)

Map projection is UTM Zone 18 NAD 1983 with left 309373 and top 4314244. Pixel size is 16 meters . Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixles. The map display represents 9600 meters east to west by 9600 meters north to south for a total of 92.1 square kilometers. The map display represents 31501 feet east to west by 31501 feet north to south for a total of 35.5

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map assembled 2025-05-21 12:48:43 (qa/qc March 21, 2016 12:20 - tn=3710030.1 dist=3218
1)

```
$poi=38.9142387 -77.1433442$query=select xy.x,xy.y, xxvy256.Displace_X,  
xxvy256.Displace_Y, cc.High_TE, obs.FeatType from  
vafwis_tables.dbo.vcvSppObs_XY xy join vafwis_tables.dbo.cvSppObs obs on  
obs.obsID = xy.obsID join vafwis_tables.dbo.cvSppObsSite256 s256 on s256.obsID =  
xy.obsID join vafwis_tables.dbo.cvSppObsSitexxvy256 xxvy256 on xxvy256.obsSite256  
= s256.obsSite256 join vafwis_tables.dbo.cvSppObs_CC cc on cc.obsID = xy.obsID  
JOIN vafwis_tables.dbo.udf_List2Table('321384','') list on list.item = obs.obsID
```

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PROJECT INFORMATION

TITLE: North Dumbarton Culvert Replacement

DESCRIPTION: North Dumbarton Culvert Replacement

EXISTING SITE CONDITIONS: Existing culvert in residential area

Instream Activity: Yes - Instream Impact Required

QUADRANGLES: Falls Church

Major Ground Disturbing Activities: Other: In-stream Culvert Replacement

COUNTIES: Arlington

Minor Ground Disturbing Activities: N/A

Latitude/Longitude (DMS): 38° 54' 49.5034" N / 77° 8' 34.1393" W

Acreage: 2 acres

Comments:

REQUESTOR INFORMATION

Priority: N

Tier Level: Tier I

Tax ID:

Contact Name: Robert Hayler

Company Name: Dewberry Engineers, Inc.

Address: 8401 Arlington Boulevard

City: Fairfax

State: VA

Zip: 22031

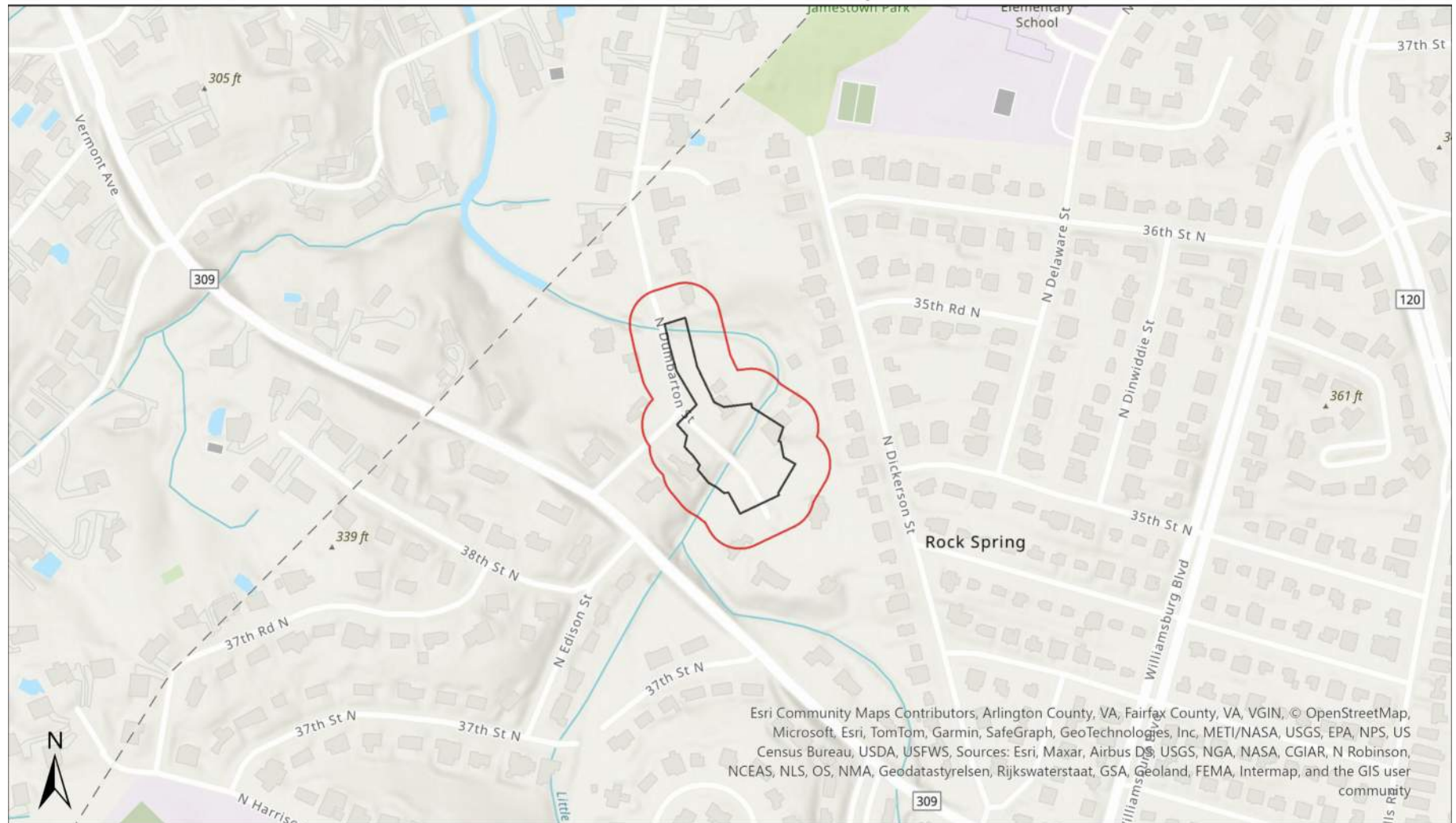
Phone: 7038490147

Fax: 7038490147

Email: rhayler@dewberry.com

Conservation Site	Site Type	Brank	Acreage	Listed Species Presence	Essential Conservation Site?	Land Conservation Priorities
Natural Heritage Screening Features Intersecting Project Boundary						
Intersecting Predictive Models						
Predictive Model Results						

North Dumbarton Culvert Replacement



- Buffered Project Boundary
- Project Boundary

0 0.05 0.1 0.2 Miles

Scale: 1:4,514

Quads: Falls Church

Counties: Arlington

Company: Dewberry Engineers, Inc.

Lat/Long: 385449 / -770834



COMMONWEALTH of VIRGINIA
DEPARTMENT OF CONSERVATION AND RECREATION

The project mapped as part of this report has been searched against the Department of Conservation and Recreation's Biotics Data System for occurrences of natural heritage resources in the vicinity of the area indicated for this project. Natural heritage resources are defined as the habitat of rare, threatened, or endangered plant and animal species, unique or exemplary natural communities, and significant geologic formations.

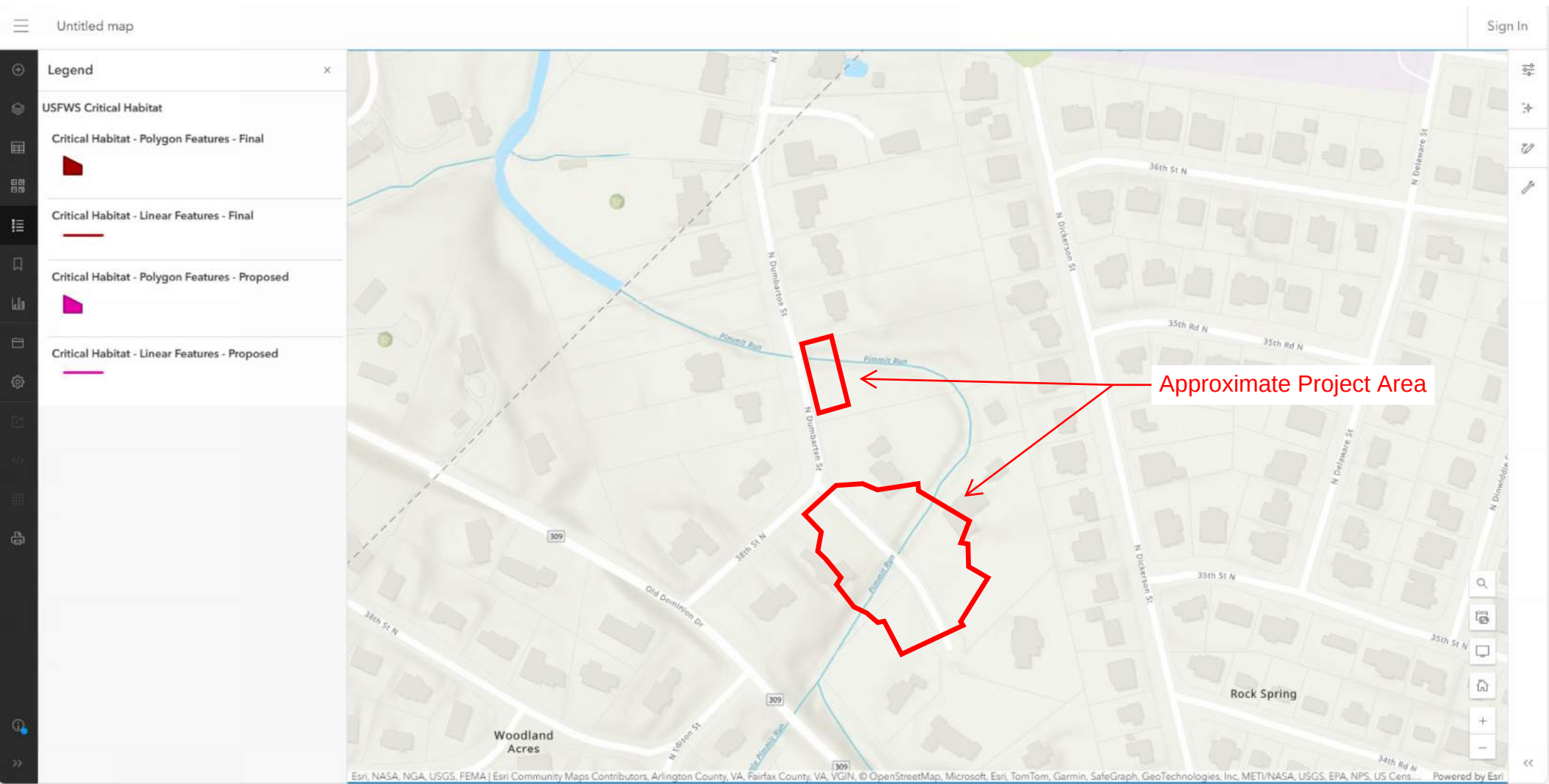
According to the information currently in Biotics, natural heritage resources have not been documented within the submitted project boundary including a 100 foot buffer. In addition, the project area does not intersect any of the predictive models identifying potential habitat for natural heritage resources.

Under a Memorandum of Agreement established between the Virginia Department of Agriculture and Consumer Services (VDACS) and the Virginia Department of Conservation and Recreation (DCR), DCR represents VDACS in comments regarding potential impacts on state-listed threatened and endangered plant and insect species. The current activity will not affect any documented state-listed plants or insects.

Any absence of data may indicate that the project area has not been surveyed, rather than confirm that the area lacks additional natural heritage resources. New and updated information is continually added to Biotics. Please revisit this website or contact DCR for an update on this natural heritage information if a significant amount of time passes (DCR recommends no more than six months) before it is utilized.

The Virginia Department of Wildlife Resources maintains a database of wildlife locations, including threatened and endangered species, trout streams, and anadromous fish waters, that may contain information not documented in the Natural Heritage Data Explorer. Their database may be accessed from <https://svcgis.dwr.virginia.gov/fwis/> or contact Lee Brann at Lee.Brann@dwr.virginia.gov.

Thank you for submitting your project to the Virginia Department of Conservation and Recreation's Natural Heritage Data Explorer Web Service. **Based on the preliminary screening results for this project, no further correspondence will be sent from this office.** Should you have any questions or concerns about this report, the Data Explorer, or other Virginia Natural Heritage Program services, please contact the Natural Heritage Project Review Unit at 804-371-2708.





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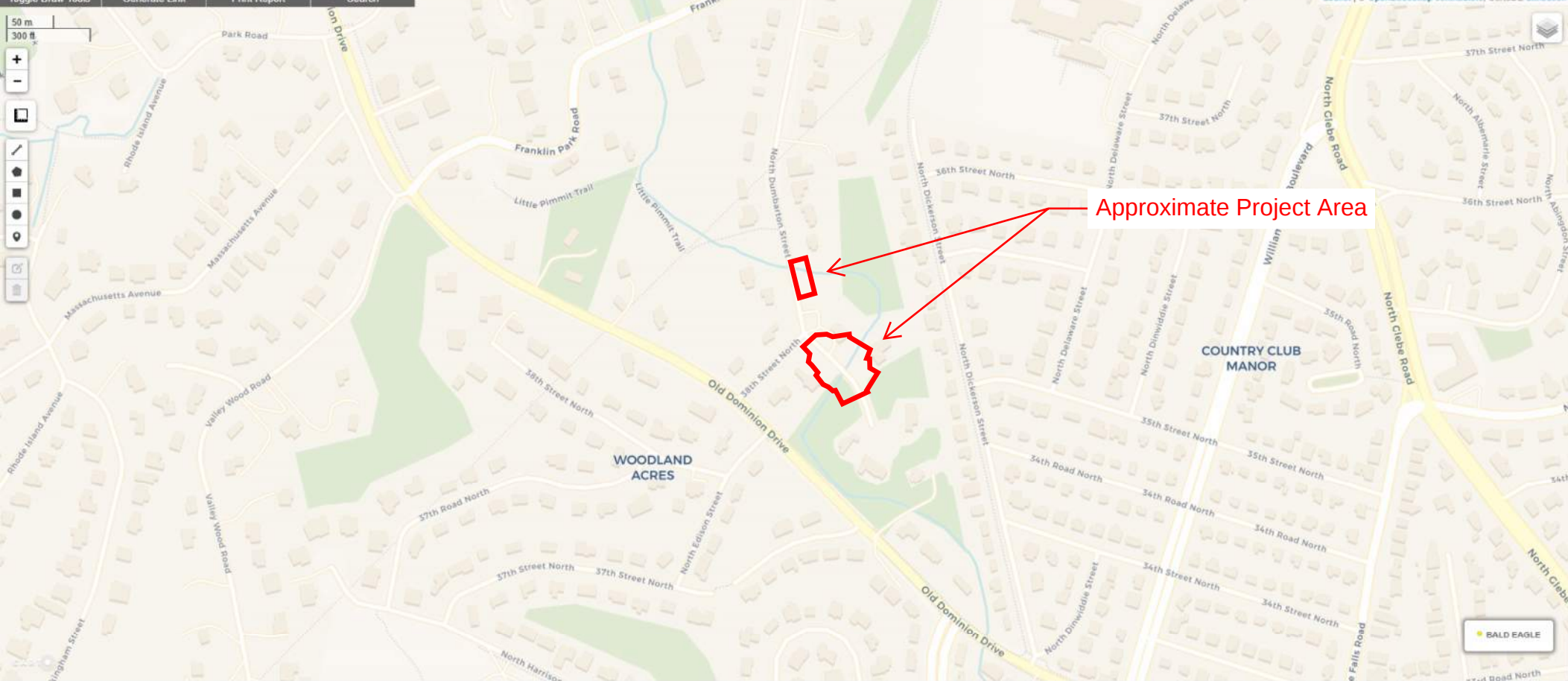
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[Toggle Draw Tools](#) [Generate Link](#) [Print Report](#) [Search](#)

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Bald Eagle Concentration Areas - Virginia

 **Blake Massey**
U.S. Fish & Wildlife Service

Summary

Designated area of Bald Eagle Concentration areas

[View Full Details](#)

[Download](#)

Details

-  **Dataset**
Feature Layer
-  **December 23, 2019**
Info Updated
-  **December 23, 2019**
Data Updated
-  **February 25, 2013**
Published Date
-  **Records: 2**
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