



U.S. Fish and Wildlife Service

## Trust Resources List

**This resource list is to be used for planning purposes only — it is not an official species list.**

**Endangered Species Act species list information for your project is available online and listed below for the following FWS Field Offices:**

**Virginia Ecological Services Field Office**  
6669 SHORT LANE  
GLOUCESTER, VA 23061  
(804) 693-6694  
<http://www.fws.gov/northeast/virginiafield/>

***Project Name:***

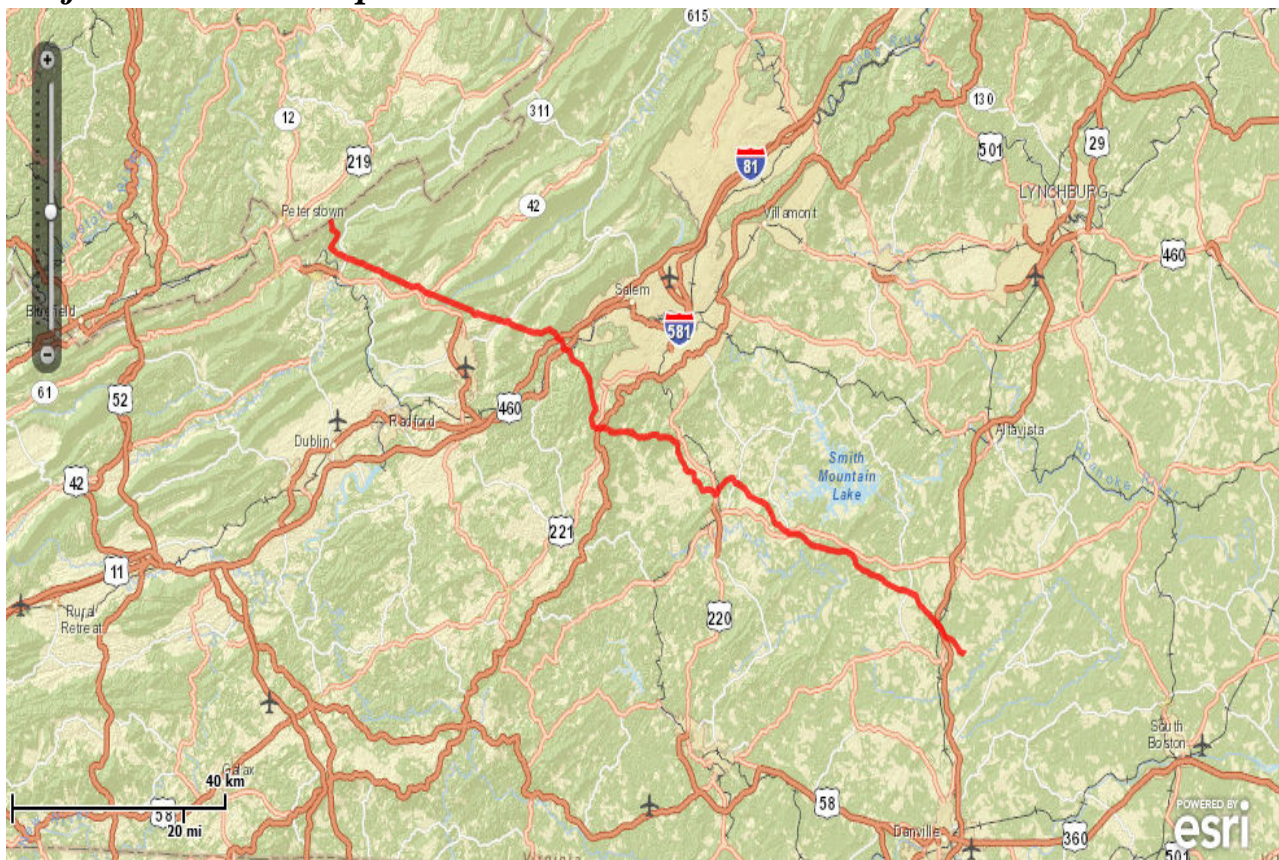
MVP\_REV3\_2-2\_20150304



U.S. Fish and Wildlife Service

## Trust Resources List

### ***Project Location Map:***



### ***Project Counties:***

Franklin, VA | Giles, VA | Montgomery, VA | Pittsylvania, VA | Roanoke, VA



***Geographic coordinates (Open Geospatial Consortium Well-Known Text, NAD83):***

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## Trust Resources List

### ***Project Type:***

Oil Or Gas

### ***Endangered Species Act Species List ([USFWS Endangered Species Program](#)).***

There are a total of 6 threatened or endangered species on your 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 fishes may appear on the species list because a project could cause downstream effects on the species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section below for critical habitat that lies within your project area. Please contact the designated FWS office if you have questions.

### **Species that should be considered in an effects analysis for your project:**

Fishes	Status		Has Critical Habitat	Contact
Roanoke logperch ( <i>Percina rex</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Flowering Plants				
Northeastern bulrush ( <i>Scirpus ancistrochaetus</i> )	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Smooth coneflower ( <i>Echinacea laevigata</i> )	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Insects				
Mitchell's Satyr Butterfly ( <i>Neonympha mitchellii mitchellii</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Mammals				
Indiana bat ( <i>Myotis sodalis</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
northern long-eared Bat ( <i>Myotis septentrionalis</i> ) Population:	Proposed Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office





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### Critical habitats within your project area:

*There are no critical habitats within your project area.*

### ***FWS National Wildlife Refuges ([USFWS National Wildlife Refuges Program](#)).***

*There are no refuges found within the vicinity of your project.*

### ***FWS Migratory Birds ([USFWS Migratory Bird Program](#)).***

The protection of birds is regulated by the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA). 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)). The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. For more information regarding these Acts see: <http://www.fws.gov/migratorybirds/RegulationsandPolicies.html>.

All project proponents are responsible for complying with the appropriate regulations protecting birds when planning and developing a project. To meet these conservation obligations, proponents should identify potential or existing project-related impacts to migratory birds and their habitat and develop and implement conservation measures that avoid, minimize, or compensate for these impacts. The Service's Birds of Conservation Concern (2008) report identifies species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become listed under the Endangered Species Act as amended (16 U.S.C 1531 et seq.).

For information about Birds of Conservation Concern, go to:

<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Management/BCC.html>.

To search and view summaries of year-round bird occurrence data within your project area, go to the Avian Knowledge Network Histogram Tool links in the Bird Conservation Tools section at: <http://www.fws.gov/migratorybirds/CCMB2.htm>.

For information about conservation measures that help avoid or minimize impacts to birds, please visit:

<http://www.fws.gov/migratorybirds/CCMB2.htm>.

### **Migratory birds of concern that may be affected by your project:**



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There are **21** birds on your Migratory birds of concern list. The underlying data layers used to generate the migratory bird list of concern will continue to be updated regularly as new and better information is obtained. User feedback is one method of identifying any needed improvements. Therefore, users are encouraged to submit comments about any questions regarding species ranges (e.g., a bird on the USFWS BCC list you know does not occur in the specified location appears on the list, or a BCC species that you know does occur there is not appearing on the list). Comments should be sent to [the ECOS Help Desk](#).

Species Name	Bird of Conservation Concern (BCC)	Species Profile	Seasonal Occurrence in Project Area
American bittern ( <i>Botaurus lentiginosus</i> )	Yes	<a href="#">species info</a>	Wintering
Bald eagle ( <i>Haliaeetus leucocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Black-billed Cuckoo ( <i>Coccyzus erythrophthalmus</i> )	Yes	<a href="#">species info</a>	Breeding
Blue-winged Warbler ( <i>Vermivora pinus</i> )	Yes	<a href="#">species info</a>	Breeding
Canada Warbler ( <i>Wilsonia canadensis</i> )	Yes	<a href="#">species info</a>	Breeding
cerulean warbler ( <i>Dendroica cerulea</i> )	Yes	<a href="#">species info</a>	Breeding
Fox Sparrow ( <i>Passerella iliaca</i> )	Yes	<a href="#">species info</a>	Wintering
Golden-Winged Warbler ( <i>Vermivora chrysoptera</i> )	Yes	<a href="#">species info</a>	Breeding
Henslow's sparrow ( <i>Ammodramus henslowii</i> )	Yes	<a href="#">species info</a>	Breeding
Kentucky Warbler ( <i>Oporornis formosus</i> )	Yes	<a href="#">species info</a>	Breeding
Least Bittern ( <i>Ixobrychus exilis</i> )	Yes	<a href="#">species info</a>	Breeding
Loggerhead Shrike ( <i>Lanius ludovicianus</i> )	Yes	<a href="#">species info</a>	Year-round
Louisiana Waterthrush ( <i>Parkesia motacilla</i> )	Yes	<a href="#">species info</a>	Breeding
Pied-billed Grebe ( <i>Podilymbus podiceps</i> )	Yes	<a href="#">species info</a>	Year-round



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Prairie Warbler ( <i>Dendroica discolor</i> )	Yes	<a href="#">species info</a>	Breeding
Prothonotary Warbler ( <i>Protonotaria citrea</i> )	Yes	<a href="#">species info</a>	Breeding
Red-headed Woodpecker ( <i>Melanerpes erythrocephalus</i> )	Yes	<a href="#">species info</a>	Year-round, Breeding
Rusty Blackbird ( <i>Euphagus carolinus</i> )	Yes	<a href="#">species info</a>	Wintering
Wood Thrush ( <i>Hylocichla mustelina</i> )	Yes	<a href="#">species info</a>	Breeding
Worm eating Warbler ( <i>Helmitheros vermivorum</i> )	Yes	<a href="#">species info</a>	Breeding
Yellow-Bellied sapsucker ( <i>sphyrapicus varius</i> )	Yes	<a href="#">species info</a>	Breeding

### ***NWI Wetlands ([USFWS National Wetlands Inventory](#)).***

The U.S. Fish and Wildlife Service is the principal Federal agency that provides information on the extent and status of wetlands in the U.S., via the National Wetlands Inventory Program (NWI). In addition to impacts to wetlands within your immediate project area, wetlands outside of your project area may need to be considered in any evaluation of project impacts, due to the hydrologic nature of wetlands (for example, project activities may affect local hydrology within, and outside of, your immediate project area). It may be helpful to refer to the USFWS National Wetland Inventory website. The designated FWS office can also assist you. Impacts to wetlands and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes. Project Proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate [U.S. Army Corps of Engineers District](#).

### **Data Limitations, Exclusions and Precautions**

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work



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conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery and/or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

**Exclusions** - Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

**Precautions** - Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

### The following wetland types intersect your project area in one or more locations:

Wetland Types	NWI Classification Code	Total Acres
Freshwater Emergent Wetland	<a href="#">PEM1C</a>	0.9833
Freshwater Emergent Wetland	<a href="#">PEM1/SS1C</a>	1.8326
Freshwater Emergent Wetland	<a href="#">PEM/SS1C</a>	2.3584
Freshwater Forested/Shrub Wetland	<a href="#">PFO1C</a>	3.0766
Freshwater Forested/Shrub Wetland	<a href="#">PFO1A</a>	25.1911
Freshwater Pond	<a href="#">PUBHh</a>	0.984
Riverine	<a href="#">R3UBH</a>	11.2219
Riverine	<a href="#">R2UBH</a>	144.9303





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6669 SHORT LANE  
GLOUCESTER, VA 23061  
(804) 693-6694  
<http://www.fws.gov/northeast/virginiafield/>

**West Virginia Ecological Services Field Office**  
694 BEVERLY PIKE  
ELKINS, WV 26241  
(304) 636-6586  
<http://www.fws.gov/westvirginiafieldoffice/>

### ***Project Name:***

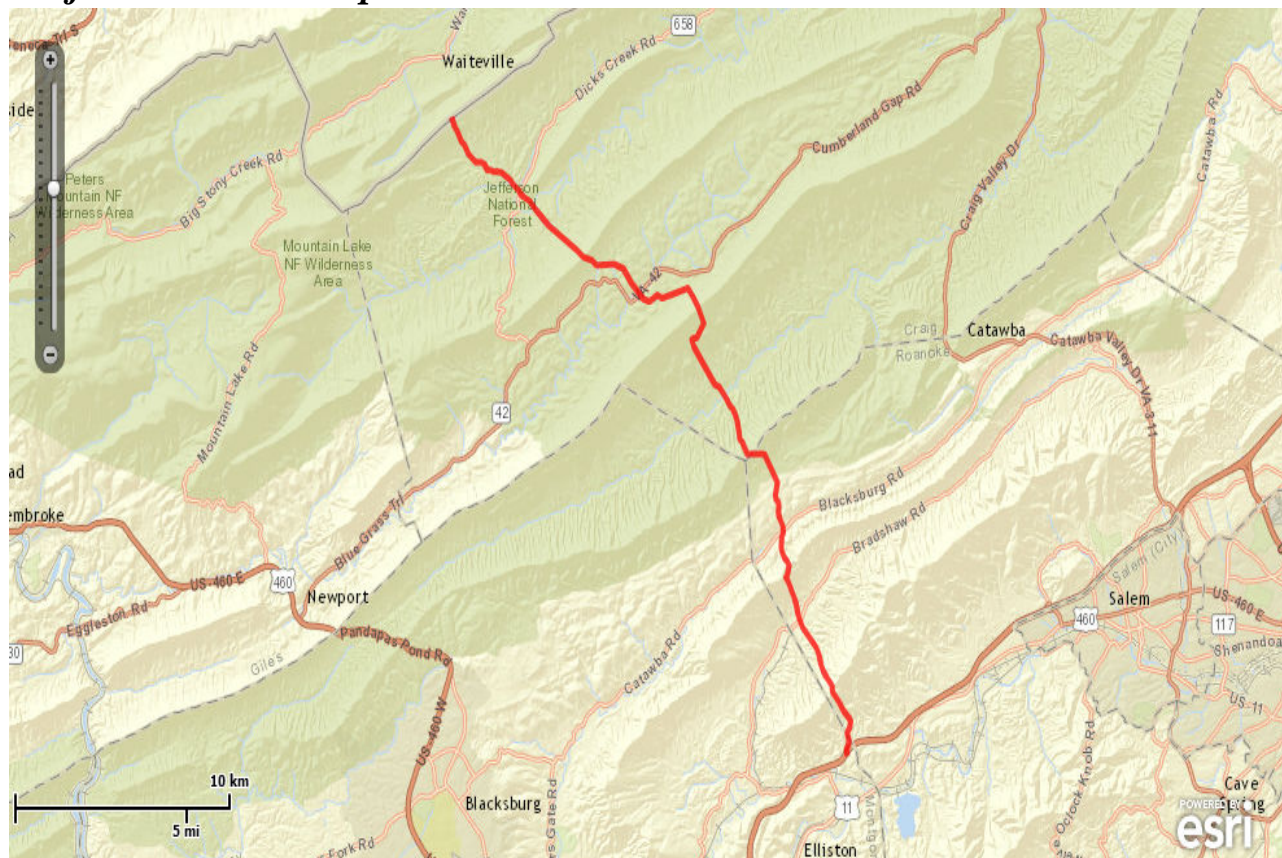
MVP\_REV3\_2-2\_20150304



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### ***Project Location Map:***



### ***Project Counties:***

Craig, VA | Montgomery, VA | Roanoke, VA | Monroe, WV



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### ***Geographic coordinates (Open Geospatial Consortium Well-Known Text, NAD83):***

MULTIPOLYGON (((-80.415872 37.4509309, -80.4143121 37.4491825, -80.4143104 37.4491803, -80.4120552 37.4458012, -80.4107284 37.4448711, -80.4107238 37.4448666, -80.4084699 37.4418317, -80.4055731 37.4397258, -80.4043645 37.4390971, -80.4017675 37.4391927, -80.4017593 37.4391912, -80.4000807 37.438513, -80.4000731 37.4385076, -80.3983242 37.4364835, -80.3964093 37.4364119, -80.3964047 37.4364112, -80.3948779 37.4359896, -80.3934477 37.4361153, -80.3934437 37.4361153, -80.3910221 37.435849, -80.3910146 37.4358466, -80.3862465 37.4332004, -80.3862422 37.4331971, -80.3850985 37.4320694, -80.3821316 37.4301097, -80.3821278 37.4301065, -80.3812619 37.4291581, -80.3793592 37.4277749, -80.3762138 37.4264766, -80.3762083 37.4264733, -80.3729733 37.4236873, -80.3659584 37.4183358, -80.3510661 37.4102626, -80.3510648 37.4102618, -80.3477828 37.408158, -80.3430997 37.4070105, -80.3430929 37.4070074, -80.3407773 37.4053574, -80.3313536 37.4058616, -80.3313466 37.4058607, -80.3264607 37.4043443, -80.3264517 37.4043386, -80.3220901 37.3995008, -80.3158498 37.3942935, -80.3127467 37.3935612, -80.308439 37.3956706, -80.3084305 37.3956726, -80.3084219 37.3956708, -80.3059678 37.3945525, -80.2922663 37.3979184, -80.2922593 37.3979189, -80.2922525 37.3979169, -80.2922469 37.3979127, -80.2892193 37.3946743, -80.289218 37.3946728, -80.2869794 37.3917617, -80.2869781 37.3917596, -80.2838008 37.3863595, -80.2837982 37.3863519, -80.2837988 37.3863439, -80.2838025 37.3863368, -80.2876318 37.3816296, -80.2876378 37.3816246, -80.2876452 37.3816223, -80.2895373 37.3814226, -80.2902061 37.3809552, -80.2892139 37.3788301, -80.2780372 37.3663735, -80.2760499 37.3656418, -80.2760451 37.3656393, -80.2751867 37.3650236, -80.2751844 37.3650216, -80.271987 37.361873, -80.2719854 37.3618712, -80.2698419 37.359205, -80.2686734 37.3585353, -80.268667 37.3585296, -80.2670727 37.3563055, -80.2670709 37.3563022, -80.2661389 37.3543024, -80.2661377 37.3542991, -80.265101 37.3504056, -80.2651005 37.3504031, -80.2648276 37.3483335, -80.2636192 37.3477268, -80.2636117 37.3477201, -80.2608434 37.3436493, -80.2517772 37.3436076, -80.2517682 37.3436054, -80.2517612 37.3435995, -80.2448898 37.3342772, -80.2448863 37.3342692, -80.2448865 37.3342605, -80.2458662 37.330281, -80.245747 37.3289883, -80.2443884 37.3277239, -80.2443827 37.3277145, -80.2441513 37.3268506, -80.2441507 37.3268434, -80.2444302 37.3240784, -80.2435913 37.3222427, -80.2419745 37.3198567, -80.2419712 37.3198473, -80.2417668 37.3175925, -80.2417676 37.3175848, -80.2417713 37.317578, -80.2426754 37.3164816, -80.2428843 37.3124583, -80.2413067 37.3097936, -80.2397515 37.3085306, -80.2397484 37.3085275, -80.2387773 37.3072969, -80.2387734 37.3072886, -80.2387736 37.3072795, -80.2395598 37.3042059, -80.2395639 37.304198, -80.2403792 37.3032302, -80.2394503 37.3021889, -80.2394482 37.3021861, -80.235779 37.2962311, -80.2357779 37.2962291, -80.234931 37.2944227, -80.23493 37.2944201, -80.2338255 37.2908461, -80.2316608 37.2868735, -80.2244831 37.2803889, -80.2244795 37.2803846, -80.222993 37.2779673, -80.2229912 37.2779635, -80.2218627 37.2747841, -80.2206764 37.2726466, -80.2190501 37.270661, -80.2158359 37.2676151, -80.2158314 37.2676086, -80.2158297 37.2676008, -80.2158126 37.2659709, -80.2154272 37.2653467, -80.2120687 37.2621994, -80.212067 37.2621975, -80.2098292 37.2594814, -80.2067523 37.2570762, -80.2067481 37.2570718, -80.2061571 37.2562155, -80.2061539 37.2562078, -80.2061542 37.2561994, -80.2066741 37.2540426, -80.2066779 37.2540348, -80.2080222 37.2523473, -80.2070164 37.2495378, -80.2070152 37.2495312, -80.2070163 37.2495245, -80.2073526 37.248568, -80.2073552 37.248563, -80.2085309 37.2469175, -80.2078195 37.2447105, -80.2078186 37.2447028, -80.2078207 37.2446953, -80.2078255 37.2446892, -80.2078324 37.2446854, -80.2078401 37.2446845, -80.2078470 37.2446886, -80.2078537 37.2446914, -80.2078575 37.2446983, -80.208572 37.2469148, -80.2085728 37.246924, -80.2085733 37.2469325, -80.2073894 37.2485839, -80.2070564 37.249531, -80.2080636 37.2523443, -80.2080648 37.2523509, -80.2080637 37.2523576,



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### ***Project Type:***

Oil Or Gas

### ***Endangered Species Act Species List ([USFWS Endangered Species Program](#)).***

There are a total of 8 threatened or endangered species on your 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 fishes may appear on the species list because a project could cause downstream effects on the species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section below for critical habitat that lies within your project area. Please contact the designated FWS office if you have questions.

### **Species that should be considered in an effects analysis for your project:**

Clams	Status		Has Critical Habitat	Contact
James spinymussel ( <i>Pleurobema collina</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office, West Virginia Ecological Services Field Office
Fishes				
Roanoke logperch ( <i>Percina rex</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Flowering Plants				
Northeastern bulrush ( <i>Scirpus ancistrochaetus</i> )	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Smooth coneflower ( <i>Echinacea laevigata</i> )	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Insects				



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Mitchell's Satyr Butterfly ( <i>Neonympha mitchellii mitchellii</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Mammals				
Indiana bat ( <i>Myotis sodalis</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office, West Virginia Ecological Services Field Office
northern long-eared Bat ( <i>Myotis septentrionalis</i> ) Population:	Proposed Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office, West Virginia Ecological Services Field Office
Virginia Big-Eared bat ( <i>Corynorhinus (=plecotus) townsendii virginianus</i> ) Population: Entire	Endangered	<a href="#">species info</a>	<a href="#">Final designated critical habitat</a>	West Virginia Ecological Services Field Office

### Critical habitats within your project area:

*There are no critical habitats within your project area.*

### ***FWS National Wildlife Refuges*** ([\*\*\*USFWS National Wildlife Refuges Program\*\*\*](#)).

*There are no refuges found within the vicinity of your project.*

### ***FWS Migratory Birds*** ([\*\*\*USFWS Migratory Bird Program\*\*\*](#)).

The protection of birds is regulated by the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA). 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.





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### **Migratory birds of concern that may be affected by your project:**

There are **17** birds on your Migratory birds of concern list. The underlying data layers used to generate the migratory bird list of concern will continue to be updated regularly as new and better information is obtained. User feedback is one method of identifying any needed improvements. Therefore, users are encouraged to submit comments about any questions regarding species ranges (e.g., a bird on the USFWS BCC list you know does not occur in the specified location appears on the list, or a BCC species that you know does occur there is not appearing on the list). Comments should be sent to the [ECOS Help Desk](#).

Species Name	Bird of Conservation Concern (BCC)	Species Profile	Seasonal Occurrence in Project Area
Bald eagle ( <i>Haliaeetus leucocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Black-billed Cuckoo ( <i>Coccyzus erythrophthalmus</i> )	Yes	<a href="#">species info</a>	Breeding
Blue-winged Warbler ( <i>Vermivora pinus</i> )	Yes	<a href="#">species info</a>	Breeding
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cerulean warbler ( <i>Dendroica cerulea</i> )	Yes	<a href="#">species info</a>	Breeding
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Golden-Winged Warbler ( <i>Vermivora chrysoptera</i> )	Yes	<a href="#">species info</a>	Breeding
Kentucky Warbler ( <i>Oporornis formosus</i> )	Yes	<a href="#">species info</a>	Breeding
Loggerhead Shrike ( <i>Lanius ludovicianus</i> )	Yes	<a href="#">species info</a>	Year-round
Louisiana Waterthrush ( <i>Parkesia motacilla</i> )	Yes	<a href="#">species info</a>	Breeding
Pied-billed Grebe ( <i>Podilymbus podiceps</i> )	Yes	<a href="#">species info</a>	Year-round
Prairie Warbler ( <i>Dendroica discolor</i> )	Yes	<a href="#">species info</a>	Breeding
Red-headed Woodpecker ( <i>Melanerpes erythrocephalus</i> )	Yes	<a href="#">species info</a>	Year-round, Breeding
Rusty Blackbird ( <i>Euphagus carolinus</i> )	Yes	<a href="#">species info</a>	Wintering
Wood Thrush ( <i>Hylocichla mustelina</i> )	Yes	<a href="#">species info</a>	Breeding
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### **NWI Wetlands ([USFWS National Wetlands Inventory](#)).**

The U.S. Fish and Wildlife Service is the principal Federal agency that provides information on the extent and status of wetlands in the U.S., via the National Wetlands Inventory Program (NWI). In addition to impacts to wetlands within your immediate project area, wetlands outside of your project area may need to be considered in any evaluation of project impacts, due to the hydrologic nature of wetlands (for example, project activities may affect local hydrology within, and outside of, your immediate project area). It may be helpful to refer to the USFWS National Wetland Inventory website. The designated FWS office can also assist you. Impacts to wetlands and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes. Project Proponents should discuss the relationship of these



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requirements to their project with the Regulatory Program of the appropriate [U.S. Army Corps of Engineers District](#).

### Data Limitations, Exclusions and Precautions

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The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery and/or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

**Exclusions** - Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

**Precautions** - Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

**The following wetland types intersect your project area in one or more locations:**

Wetland Types	NWI Classification Code	Total Acres
Freshwater Forested/Shrub Wetland	<a href="#">PFO1A</a>	1.643



U.S. Fish and Wildlife Service

## Trust Resources List

**This resource list is to be used for planning purposes only — it is not an official species list.**

**Endangered Species Act species list information for your project is available online and listed below for the following FWS Field Offices:**

**Virginia Ecological Services Field Office**  
6669 SHORT LANE  
GLOUCESTER, VA 23061  
(804) 693-6694  
<http://www.fws.gov/northeast/virginiafield/>

***Project Name:***

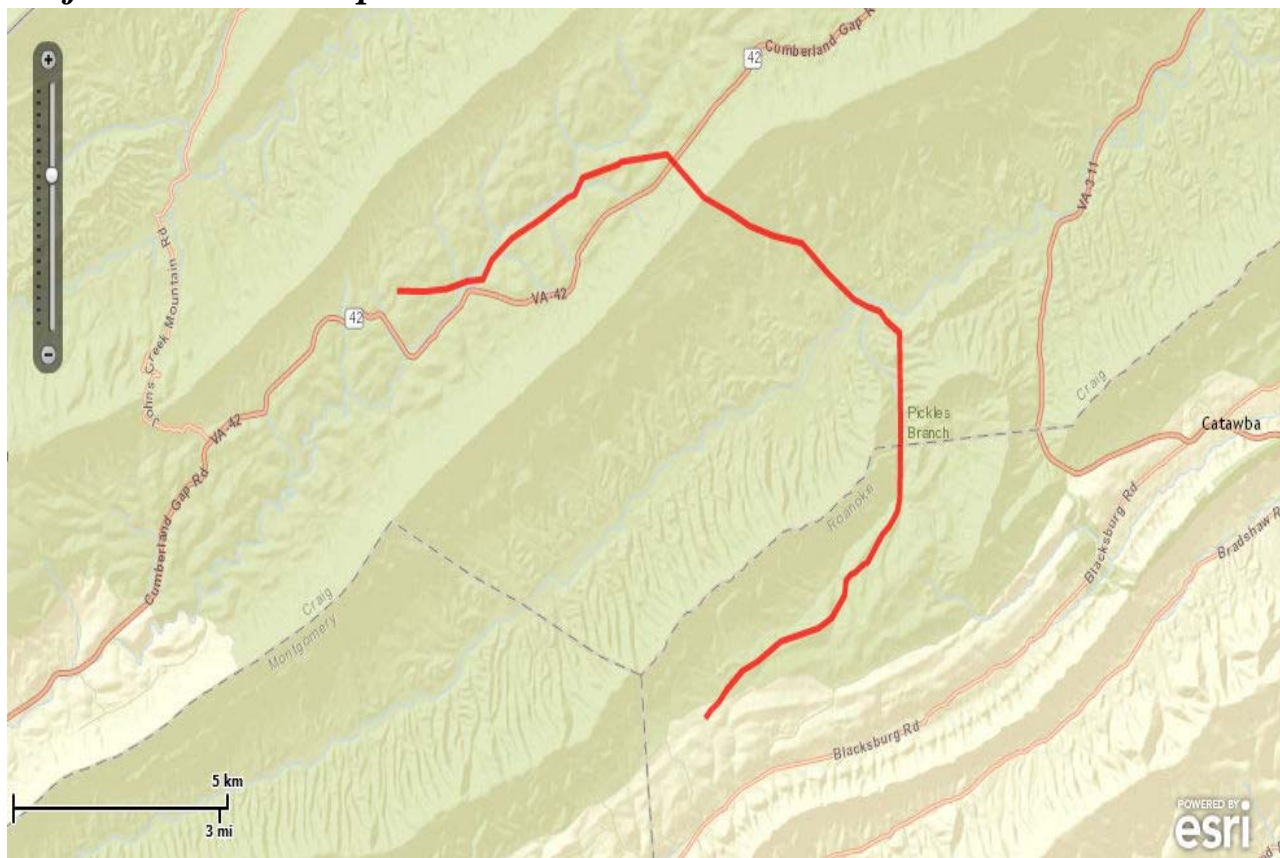
MVP\_REV3\_2-2\_20150304



U.S. Fish and Wildlife Service

## Trust Resources List

### ***Project Location Map:***



### ***Project Counties:***

Craig, VA | Roanoke, VA





## Trust Resources List

### ***Geographic coordinates (Open Geospatial Consortium Well-Known Text, NAD83):***

MULTIPOLYGON (((-80.2434737 37.3356391, -80.2434706 37.3356415, -80.241227 37.337012, -80.2392493 37.339032, -80.239247 37.339034, -80.2350928 37.3421577, -80.2350878 37.3421604, -80.231084 37.3436505, -80.2247572 37.3469792, -80.2247522 37.346981, -80.2149605 37.3491259, -80.2113886 37.3507888, -80.2080641 37.3545028, -80.2076164 37.3569197, -80.2076139 37.3569263, -80.2076093 37.3569317, -80.2063042 37.3579836, -80.2062961 37.3579875, -80.2053627 37.3582006, -80.2031772 37.3594726, -80.2031732 37.3594744, -80.2019093 37.3598768, -80.1980232 37.3645451, -80.1980192 37.3645487, -80.1962749 37.365759, -80.1948841 37.3671642, -80.1939552 37.3684194, -80.1934014 37.3706388, -80.1931568 37.382287, -80.1934924 37.3974324, -80.1970877 37.3994577, -80.1970919 37.3994608, -80.1986704 37.4009981, -80.2017809 37.4016329, -80.2017833 37.4016336, -80.2056665 37.4029497, -80.2056708 37.4029517, -80.2123008 37.4071272, -80.2123017 37.4071278, -80.2192744 37.4120909, -80.2265516 37.4132532, -80.2265533 37.4132535, -80.2330927 37.4149173, -80.2330955 37.4149182, -80.2382171 37.4170607, -80.2452541 37.4195969, -80.2452589 37.4195994, -80.2550411 37.4266005, -80.2672612 37.4253971, -80.2678246 37.4249685, -80.2678323 37.4249649, -80.277367 37.4228048, -80.2794429 37.4200099, -80.2794477 37.4200053, -80.2794536 37.4200025, -80.2812506 37.4195006, -80.2884013 37.416035, -80.2884025 37.4160345, -80.2960729 37.4129179, -80.3014387 37.409357, -80.3036993 37.406172, -80.3037058 37.4061662, -80.3037142 37.4061636, -80.3078029 37.4058761, -80.3132982 37.4046178, -80.3133013 37.4046173, -80.3194959 37.4041806, -80.3194977 37.4041806, -80.3264655 37.4043033, -80.3264731 37.404305, -80.3264795 37.4043094, -80.3264837 37.404316, -80.3264851 37.4043237, -80.3264834 37.4043313, -80.326479 37.4043377, -80.3264724 37.4043419, -80.3264647 37.4043433, -80.3194978 37.4042206, -80.3133057 37.4046571, -80.3078104 37.4059154, -80.3078073 37.4059159, -80.3037264 37.4062029, -80.3014692 37.4093832, -80.301464 37.4093883, -80.2960934 37.4129524, -80.2960898 37.4129542, -80.2884181 37.4160713, -80.2812664 37.4195374, -80.2812631 37.4195387, -80.279471 37.4200392, -80.2773947 37.4228346, -80.2773895 37.4228395, -80.277383 37.4228422, -80.2678454 37.4250029, -80.2672809 37.4254323, -80.2672708 37.4254363, -80.2550376 37.426641, -80.2550304 37.4266404, -80.255024 37.4266374, -80.2452379 37.4196336, -80.238203 37.4170981, -80.2382021 37.4170978, -80.2330814 37.4149557, -80.2265443 37.4132925, -80.2192634 37.4121296, -80.219255 37.4121262, -80.212279 37.4071607, -80.2056514 37.4029868, -80.2017717 37.4016718, -80.1986567 37.4010361, -80.1986467 37.4010308, -80.1970658 37.3994912, -80.1934629 37.3974616, -80.1934576 37.3974573, -80.193454 37.3974514, -80.1934527 37.3974446, -80.1931168 37.3822874, -80.1931168 37.3822866, -80.1933615 37.3706357, -80.1933621 37.3706313, -80.1939174 37.3684059, -80.1939207 37.3683988, -80.1948528 37.3671393, -80.1948547 37.3671371, -80.1962478 37.3657295, -80.1962506 37.3657272, -80.1979942 37.3645174, -80.2018823 37.3598467, -80.2018916 37.3598404, -80.2031589 37.3594369, -80.2053452 37.3581645, -80.2053508 37.3581623, -80.2062826 37.3579495, -80.2075784 37.3569052, -80.2080258 37.35449, -80.2080306 37.3544803, -80.2113615 37.3507591, -80.211368 37.3507543, -80.2149457 37.3490887, -80.2149498 37.3490873, -80.224741 37.3469425, -80.2310665 37.3436145, -80.2310688 37.3436135, -80.2350711 37.342124, -80.2392218 37.3390029, -80.2412002 37.3369822, -80.2412041 37.3369791, -80.2434481 37.3356083, -80.2448427 37.3343311, -80.2448494 37.334327, -80.2448571 37.3343258, -80.2448647 37.3343277, -80.2448709 37.3343323, -80.244875 37.334339, -80.2448762 37.3343467, -80.2448743 37.3343543, -80.2448697 37.3343605, -80.2434737 37.3356391)))



## Trust Resources List

### ***Project Type:***

Oil Or Gas

### ***Endangered Species Act Species List ([USFWS Endangered Species Program](#)).***

There are a total of 6 threatened or endangered species on your 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 fishes may appear on the species list because a project could cause downstream effects on the species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section below for critical habitat that lies within your project area. Please contact the designated FWS office if you have questions.

### **Species that should be considered in an effects analysis for your project:**

Clams	Status		Has Critical Habitat	Contact
James spinymussel ( <i>Pleurobema collina</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Fishes				
Roanoke logperch ( <i>Percina rex</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Flowering Plants				
Northeastern bulrush ( <i>Scirpus ancistrochaetus</i> )	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Smooth coneflower ( <i>Echinacea laevigata</i> )	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Mammals				
Indiana bat ( <i>Myotis sodalis</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
northern long-eared Bat ( <i>Myotis septentrionalis</i> ) Population:	Proposed Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office



## Trust Resources List

### **Critical habitats within your project area:**

*There are no critical habitats within your project area.*

### **FWS National Wildlife Refuges ([USFWS National Wildlife Refuges Program](#)).**

*There are no refuges found within the vicinity of your project.*

### **FWS Migratory Birds ([USFWS Migratory Bird Program](#)).**

The protection of birds is regulated by the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA). 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)). The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. For more information regarding these Acts see: <http://www.fws.gov/migratorybirds/RegulationsandPolicies.html>.

All project proponents are responsible for complying with the appropriate regulations protecting birds when planning and developing a project. To meet these conservation obligations, proponents should identify potential or existing project-related impacts to migratory birds and their habitat and develop and implement conservation measures that avoid, minimize, or compensate for these impacts. The Service's Birds of Conservation Concern (2008) report identifies species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become listed under the Endangered Species Act as amended (16 U.S.C 1531 et seq.).

For information about Birds of Conservation Concern, go to:

<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Management/BCC.html>.

To search and view summaries of year-round bird occurrence data within your project area, go to the Avian Knowledge Network Histogram Tool links in the Bird Conservation Tools section at: <http://www.fws.gov/migratorybirds/CCMB2.htm>.

For information about conservation measures that help avoid or minimize impacts to birds, please visit:

<http://www.fws.gov/migratorybirds/CCMB2.htm>.

### **Migratory birds of concern that may be affected by your project:**



## Trust Resources List

There are **17** birds on your Migratory birds of concern list. The underlying data layers used to generate the migratory bird list of concern will continue to be updated regularly as new and better information is obtained. User feedback is one method of identifying any needed improvements. Therefore, users are encouraged to submit comments about any questions regarding species ranges (e.g., a bird on the USFWS BCC list you know does not occur in the specified location appears on the list, or a BCC species that you know does occur there is not appearing on the list). Comments should be sent to [the ECOS Help Desk](#).

Species Name	Bird of Conservation Concern (BCC)	Species Profile	Seasonal Occurrence in Project Area
Bald eagle ( <i>Haliaeetus leucocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Black-billed Cuckoo ( <i>Coccyzus erythrophthalmus</i> )	Yes	<a href="#">species info</a>	Breeding
Blue-winged Warbler ( <i>Vermivora pinus</i> )	Yes	<a href="#">species info</a>	Breeding
Canada Warbler ( <i>Wilsonia canadensis</i> )	Yes	<a href="#">species info</a>	Breeding
cerulean warbler ( <i>Dendroica cerulea</i> )	Yes	<a href="#">species info</a>	Breeding
Fox Sparrow ( <i>Passerella iliaca</i> )	Yes	<a href="#">species info</a>	Wintering
Golden-Winged Warbler ( <i>Vermivora chrysoptera</i> )	Yes	<a href="#">species info</a>	Breeding
Kentucky Warbler ( <i>Oporornis formosus</i> )	Yes	<a href="#">species info</a>	Breeding
Loggerhead Shrike ( <i>Lanius ludovicianus</i> )	Yes	<a href="#">species info</a>	Year-round
Louisiana Waterthrush ( <i>Parkesia motacilla</i> )	Yes	<a href="#">species info</a>	Breeding
Pied-billed Grebe ( <i>Podilymbus podiceps</i> )	Yes	<a href="#">species info</a>	Year-round
Prairie Warbler ( <i>Dendroica discolor</i> )	Yes	<a href="#">species info</a>	Breeding
Red-headed Woodpecker ( <i>Melanerpes erythrocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Rusty Blackbird ( <i>Euphagus carolinus</i> )	Yes	<a href="#">species info</a>	Wintering
Wood Thrush ( <i>Hylocichla mustelina</i> )	Yes	<a href="#">species info</a>	Breeding



## Trust Resources List

Worm eating Warbler ( <i>Helmitheros vermivorum</i> )	Yes	<a href="#">species info</a>	Breeding
Yellow-Bellied sapsucker ( <i>sphyrapicus varius</i> )	Yes	<a href="#">species info</a>	Breeding

### ***NWI Wetlands ([USFWS National Wetlands Inventory](#)).***

The U.S. Fish and Wildlife Service is the principal Federal agency that provides information on the extent and status of wetlands in the U.S., via the National Wetlands Inventory Program (NWI). In addition to impacts to wetlands within your immediate project area, wetlands outside of your project area may need to be considered in any evaluation of project impacts, due to the hydrologic nature of wetlands (for example, project activities may affect local hydrology within, and outside of, your immediate project area). It may be helpful to refer to the USFWS National Wetland Inventory website. The designated FWS office can also assist you. Impacts to wetlands and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes. Project Proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate [U.S. Army Corps of Engineers District](#).

### **Data Limitations, Exclusions and Precautions**

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery and/or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

**Exclusions** - Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and





## Trust Resources List

nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

**Precautions** - Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

**The following wetland types intersect your project area in one or more locations:**

Wetland Types	NWI Classification Code	Total Acres
Freshwater Emergent Wetland	<a href="#">PEM1A</a>	3.2399
Freshwater Pond	<a href="#">PUBHh</a>	0.0544



U.S. Fish and Wildlife Service

## Trust Resources List

**This resource list is to be used for planning purposes only — it is not an official species list.**

**Endangered Species Act species list information for your project is available online and listed below for the following FWS Field Offices:**

**Virginia Ecological Services Field Office**  
6669 SHORT LANE  
GLOUCESTER, VA 23061  
(804) 693-6694  
<http://www.fws.gov/northeast/virginiafield/>

***Project Name:***

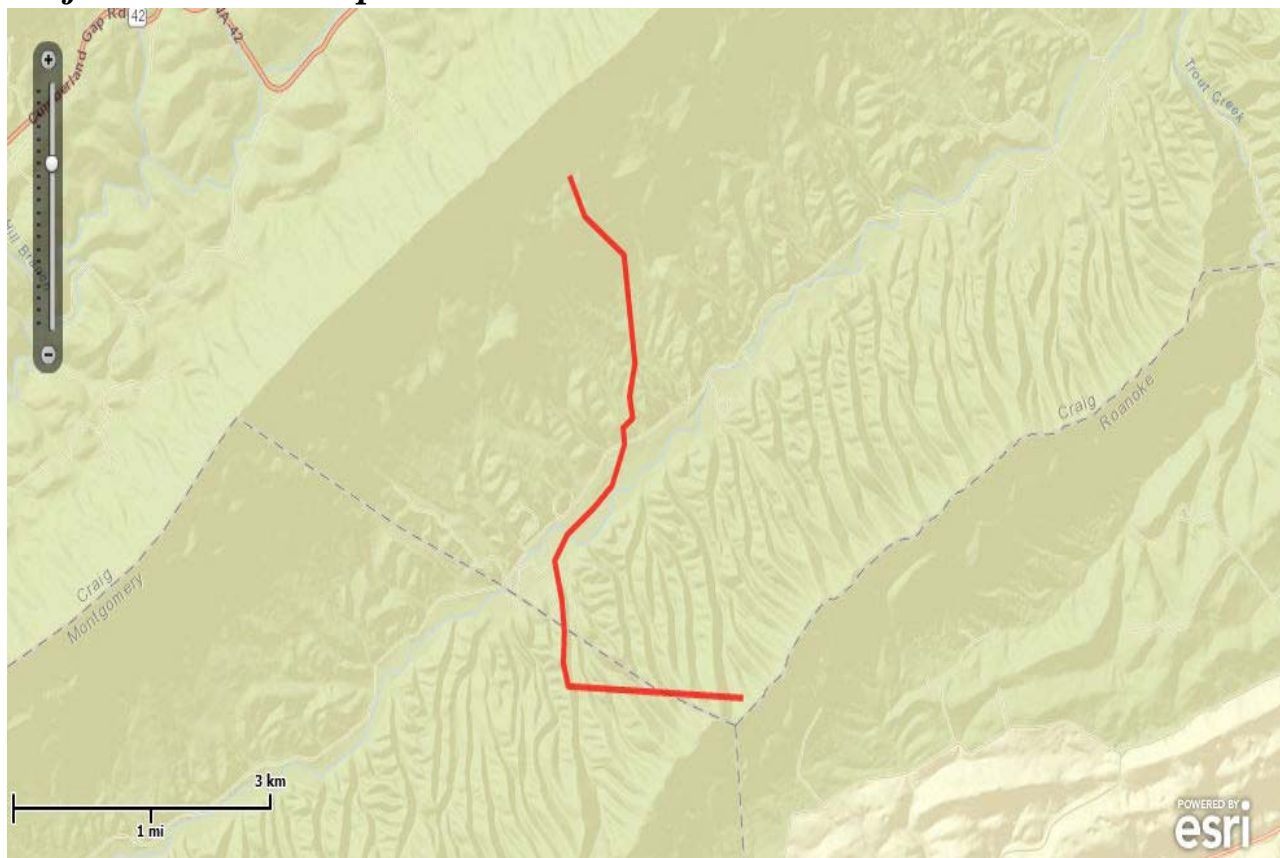
MVP\_REV3\_2-2\_20150304



U.S. Fish and Wildlife Service

## Trust Resources List

### ***Project Location Map:***



### ***Project Counties:***

Craig, VA | Montgomery, VA



## Trust Resources List

### ***Geographic coordinates (Open Geospatial Consortium Well-Known Text, NAD83):***

MULTIPOLYGON (((-80.2817956 37.3830301, -80.2766209 37.3798988, -80.2766147 37.3798929, -80.2766116 37.3798849, -80.2751627 37.3710163, -80.2751631 37.371008, -80.2758667 37.3683265, -80.2754533 37.3665001, -80.2754532 37.3664919, -80.2754564 37.3664843, -80.2754624 37.3664786, -80.2767172 37.3657151, -80.2765343 37.3644062, -80.2765343 37.3644003, -80.2765361 37.3643946, -80.2781997 37.3609821, -80.2782056 37.3609749, -80.2806094 37.3591591, -80.280611 37.3591581, -80.2841173 37.3569839, -80.2857867 37.3548256, -80.2848329 37.3517193, -80.2848321 37.3517158, -80.2845244 37.3491436, -80.2845243 37.3491405, -80.2846128 37.3464671, -80.2840094 37.3445942, -80.2608532 37.3436493, -80.2608456 37.3436475, -80.2608393 37.3436429, -80.2608352 37.3436362, -80.260834 37.3436285, -80.2608358 37.3436209, -80.2608404 37.3436146, -80.2608471 37.3436105, -80.2608548 37.3436093, -80.284025 37.3445548, -80.2840328 37.3445568, -80.2840393 37.3445616, -80.2840432 37.3445687, -80.2846519 37.3464582, -80.2846529 37.346465, -80.2845643 37.3491403, -80.2848716 37.3517092, -80.285828 37.3548237, -80.2858286 37.3548332, -80.2858247 37.3548418, -80.2841467 37.3570112, -80.2841414 37.357016, -80.2806328 37.3591916, -80.2782336 37.361004, -80.2765748 37.3644067, -80.2767586 37.3657226, -80.2767582 37.3657303, -80.2767549 37.3657373, -80.2767492 37.3657425, -80.2754955 37.3665053, -80.2759068 37.3683225, -80.2759066 37.368332, -80.2752028 37.3710141, -80.2766496 37.3798694, -80.2818206 37.3829984, -80.2818273 37.3830052, -80.2838351 37.3863391, -80.2838378 37.3863464, -80.2838374 37.3863542, -80.2838341 37.3863613, -80.2838283 37.3863665, -80.283821 37.3863692, -80.2838132 37.3863688, -80.2838061 37.3863655, -80.2838009 37.3863597, -80.2817956 37.3830301)))

### ***Project Type:***

Oil Or Gas

### ***Endangered Species Act Species List ([USFWS Endangered Species Program](#)).***

There are a total of 4 threatened or endangered species on your 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 fishes may appear on the species list because a project could cause downstream effects on the species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section below for critical habitat that lies within your project area. Please contact the designated FWS office if you have questions.

### **Species that should be considered in an effects analysis for your project:**

Clams	Status		Has Critical Habitat	Contact
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## Trust Resources List

James spinymussel ( <i>Pleurobema collina</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Insects				
Mitchell's Satyr Butterfly ( <i>Neonympha mitchellii mitchellii</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Mammals				
Indiana bat ( <i>Myotis sodalis</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
northern long-eared Bat ( <i>Myotis septentrionalis</i> ) Population:	Proposed Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office

### Critical habitats within your project area:

*There are no critical habitats within your project area.*

### ***FWS National Wildlife Refuges ([USFWS National Wildlife Refuges Program](#)).***

*There are no refuges found within the vicinity of your project.*

### ***FWS Migratory Birds ([USFWS Migratory Bird Program](#)).***

The protection of birds is regulated by the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA). 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)). The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. For more information regarding these Acts see: <http://www.fws.gov/migratorybirds/RegulationsandPolicies.html>.

All project proponents are responsible for complying with the appropriate regulations protecting birds when planning and developing a project. To meet these conservation obligations, proponents should identify





## Trust Resources List

potential or existing project-related impacts to migratory birds and their habitat and develop and implement conservation measures that avoid, minimize, or compensate for these impacts. The Service's Birds of Conservation Concern (2008) report identifies species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become listed under the Endangered Species Act as amended (16 U.S.C 1531 et seq.).

For information about Birds of Conservation Concern, go to:

<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Management/BCC.html>.

To search and view summaries of year-round bird occurrence data within your project area, go to the Avian Knowledge Network Histogram Tool links in the Bird Conservation Tools section at: <http://www.fws.gov/migratorybirds/CCMB2.htm>.

For information about conservation measures that help avoid or minimize impacts to birds, please visit:

<http://www.fws.gov/migratorybirds/CCMB2.htm>.

### **Migratory birds of concern that may be affected by your project:**

There are **15** birds on your Migratory birds of concern list. The underlying data layers used to generate the migratory bird list of concern will continue to be updated regularly as new and better information is obtained. User feedback is one method of identifying any needed improvements. Therefore, users are encouraged to submit comments about any questions regarding species ranges (e.g., a bird on the USFWS BCC list you know does not occur in the specified location appears on the list, or a BCC species that you know does occur there is not appearing on the list). Comments should be sent to [the ECOS Help Desk](#).

Species Name	Bird of Conservation Concern (BCC)	Species Profile	Seasonal Occurrence in Project Area
Bald eagle ( <i>Haliaeetus leucocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Black-billed Cuckoo ( <i>Coccyzus erythrophthalmus</i> )	Yes	<a href="#">species info</a>	Breeding
Blue-winged Warbler ( <i>Vermivora pinus</i> )	Yes	<a href="#">species info</a>	Breeding
Fox Sparrow ( <i>Passerella iliaca</i> )	Yes	<a href="#">species info</a>	Wintering
Golden-Winged Warbler ( <i>Vermivora chrysoptera</i> )	Yes	<a href="#">species info</a>	Breeding
Kentucky Warbler ( <i>Oporornis formosus</i> )	Yes	<a href="#">species info</a>	Breeding



## Trust Resources List

Loggerhead Shrike ( <i>Lanius ludovicianus</i> )	Yes	<a href="#">species info</a>	Year-round
Louisiana Waterthrush ( <i>Parkesia motacilla</i> )	Yes	<a href="#">species info</a>	Breeding
Pied-billed Grebe ( <i>Podilymbus podiceps</i> )	Yes	<a href="#">species info</a>	Year-round
Prairie Warbler ( <i>Dendroica discolor</i> )	Yes	<a href="#">species info</a>	Breeding
Red-headed Woodpecker ( <i>Melanerpes erythrocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Rusty Blackbird ( <i>Euphagus carolinus</i> )	Yes	<a href="#">species info</a>	Wintering
Wood Thrush ( <i>Hylocichla mustelina</i> )	Yes	<a href="#">species info</a>	Breeding
Worm eating Warbler ( <i>Helmitheros vermivorum</i> )	Yes	<a href="#">species info</a>	Breeding
Yellow-Bellied sapsucker ( <i>sphyrapicus varius</i> )	Yes	<a href="#">species info</a>	Breeding

### ***NWI Wetlands ([USFWS National Wetlands Inventory](#)).***

The U.S. Fish and Wildlife Service is the principal Federal agency that provides information on the extent and status of wetlands in the U.S., via the National Wetlands Inventory Program (NWI). In addition to impacts to wetlands within your immediate project area, wetlands outside of your project area may need to be considered in any evaluation of project impacts, due to the hydrologic nature of wetlands (for example, project activities may affect local hydrology within, and outside of, your immediate project area). It may be helpful to refer to the USFWS National Wetland Inventory website. The designated FWS office can also assist you. Impacts to wetlands and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes. Project Proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate [U.S. Army Corps of Engineers District](#).

### **Data Limitations, Exclusions and Precautions**

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of



## Trust Resources List

error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery and/or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

**Exclusions** - Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

**Precautions** - Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

*IPaC is unable to display wetland information at this time.*



U.S. Fish and Wildlife Service

## Trust Resources List

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**Endangered Species Act species list information for your project is available online and listed below for the following FWS Field Offices:**

**Virginia Ecological Services Field Office**  
6669 SHORT LANE  
GLOUCESTER, VA 23061  
(804) 693-6694  
<http://www.fws.gov/northeast/virginiafield/>

***Project Name:***

MVP\_REV3\_2-2\_20150304



U.S. Fish and Wildlife Service

## Trust Resources List

### ***Project Location Map:***



### ***Project Counties:***

Montgomery, VA | Roanoke, VA



## Trust Resources List

### ***Geographic coordinates (Open Geospatial Consortium Well-Known Text, NAD83):***

MULTIPOLYGON (((-80.1433981 37.1806904, -80.1434017 37.1806944, -80.1458103 37.1841951, -80.1480463 37.1854881, -80.1498256 37.1857548, -80.149834 37.1857581, -80.14984 37.1857648, -80.1518654 37.1893774, -80.1533282 37.1907714, -80.1617297 37.1934165, -80.1617354 37.1934194, -80.164087 37.1951199, -80.167402 37.1970478, -80.1690529 37.1968938, -80.1690642 37.196896, -80.1707124 37.1977743, -80.1756542 37.1975123, -80.1797534 37.1970116, -80.1797629 37.1970128, -80.1797708 37.1970183, -80.1809354 37.1983396, -80.1827647 37.1991366, -80.1827729 37.1991431, -80.1859574 37.2035282, -80.1898179 37.2082364, -80.189821 37.2082417, -80.1905356 37.210037, -80.1922645 37.2108538, -80.1938045 37.2109637, -80.1938103 37.210965, -80.1958991 37.2117743, -80.1959042 37.2117771, -80.1968996 37.212556, -80.1969046 37.2125617, -80.1969071 37.2125689, -80.1977303 37.2181051, -80.1977298 37.2181133, -80.196209 37.2236066, -80.196207 37.2236114, -80.1956025 37.224645, -80.1977139 37.2286076, -80.1977156 37.2286122, -80.1983413 37.2311359, -80.1983417 37.2311437, -80.198339 37.231151, -80.1983338 37.2311568, -80.1983267 37.2311601, -80.1983189 37.2311605, -80.1983116 37.2311578, -80.1983058 37.2311526, -80.1983025 37.2311455, -80.1976774 37.2286242, -80.1955619 37.2246539, -80.1955598 37.2246475, -80.19556 37.2246407, -80.1955623 37.2246344, -80.1961711 37.2235935, -80.1976901 37.2181067, -80.1968687 37.2125826, -80.1958819 37.2118105, -80.1937987 37.2110033, -80.1922579 37.2108934, -80.1922508 37.2108916, -80.1905114 37.2100698, -80.1905053 37.2100654, -80.1905013 37.2100591, -80.189785 37.2082594, -80.1859261 37.2035531, -80.1859254 37.2035522, -80.1827437 37.1991711, -80.1809153 37.1983745, -80.1809083 37.1983694, -80.1797478 37.1970526, -80.1756583 37.1975521, -80.175657 37.1975522, -80.170709 37.1978146, -80.1706985 37.1978123, -80.1690507 37.1969342, -80.1673994 37.1970882, -80.1673932 37.1970878, -80.1673874 37.1970856, -80.164066 37.195154, -80.1640644 37.1951529, -80.1617146 37.1934537, -80.1533118 37.1908082, -80.153304 37.1908036, -80.1518356 37.1894043, -80.151832 37.1893996, -80.1498099 37.1857929, -80.1480366 37.1855271, -80.1480296 37.1855246, -80.1457864 37.1842275, -80.1457799 37.1842215, -80.1433702 37.1807192, -80.1416577 37.179267, -80.1416528 37.1792608, -80.1416507 37.1792533, -80.1416516 37.1792456, -80.1416553 37.1792388, -80.1416615 37.1792339, -80.141669 37.1792318, -80.1416767 37.1792327, -80.1416835 37.1792364, -80.1433981 37.1806904)))

### ***Project Type:***

Oil Or Gas

### ***Endangered Species Act Species List ([USFWS Endangered Species Program](#)).***

There are a total of 5 threatened or endangered species on your 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 fishes may appear on the species list because a project could cause downstream effects on the species. Critical habitats listed under the **Has Critical**





## Trust Resources List

**Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section below for critical habitat that lies within your project area. Please contact the designated FWS office if you have questions.

### Species that should be considered in an effects analysis for your project:

Fishes	Status		Has Critical Habitat	Contact
Roanoke logperch ( <i>Percina rex</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Flowering Plants				
Smooth coneflower ( <i>Echinacea laevigata</i> )	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Insects				
Mitchell's Satyr Butterfly ( <i>Neonympha mitchellii mitchellii</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Mammals				
Indiana bat ( <i>Myotis sodalis</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
northern long-eared Bat ( <i>Myotis septentrionalis</i> ) Population:	Proposed Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office

### Critical habitats within your project area:

*There are no critical habitats within your project area.*

### ***FWS National Wildlife Refuges ([USFWS National Wildlife Refuges Program](#)).***

*There are no refuges found within the vicinity of your project.*



## Trust Resources List

### ***FWS Migratory Birds ([USFWS Migratory Bird Program](#))***

The protection of birds is regulated by the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA). 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)). The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. For more information regarding these Acts see: <http://www.fws.gov/migratorybirds/RegulationsandPolicies.html>.

All project proponents are responsible for complying with the appropriate regulations protecting birds when planning and developing a project. To meet these conservation obligations, proponents should identify potential or existing project-related impacts to migratory birds and their habitat and develop and implement conservation measures that avoid, minimize, or compensate for these impacts. The Service's Birds of Conservation Concern (2008) report identifies species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become listed under the Endangered Species Act as amended (16 U.S.C 1531 et seq.).

For information about Birds of Conservation Concern, go to:

<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Management/BCC.html>.

To search and view summaries of year-round bird occurrence data within your project area, go to the Avian Knowledge Network Histogram Tool links in the Bird Conservation Tools section at: <http://www.fws.gov/migratorybirds/CCMB2.htm>.

For information about conservation measures that help avoid or minimize impacts to birds, please visit:

<http://www.fws.gov/migratorybirds/CCMB2.htm>.

### **Migratory birds of concern that may be affected by your project:**

There are **15** birds on your Migratory birds of concern list. The underlying data layers used to generate the migratory bird list of concern will continue to be updated regularly as new and better information is obtained. User feedback is one method of identifying any needed improvements. Therefore, users are encouraged to submit comments about any questions regarding species ranges (e.g., a bird on the USFWS BCC list you know does not occur in the specified location appears on the list, or a BCC species that you know does occur there is not appearing on the list). Comments should be sent to [the ECOS Help Desk](#).

Species Name	Bird of Conservation Concern (BCC)	Species Profile	Seasonal Occurrence in Project Area
Bald eagle ( <i>Haliaeetus leucocephalus</i> )	Yes	<a href="#">species info</a>	Year-round



## Trust Resources List

Black-billed Cuckoo ( <i>Coccyzus erythrophthalmus</i> )	Yes	<a href="#">species info</a>	Breeding
Blue-winged Warbler ( <i>Vermivora pinus</i> )	Yes	<a href="#">species info</a>	Breeding
Fox Sparrow ( <i>Passerella liaca</i> )	Yes	<a href="#">species info</a>	Wintering
Golden-Winged Warbler ( <i>Vermivora chrysoptera</i> )	Yes	<a href="#">species info</a>	Breeding
Kentucky Warbler ( <i>Oporornis formosus</i> )	Yes	<a href="#">species info</a>	Breeding
Loggerhead Shrike ( <i>Lanius ludovicianus</i> )	Yes	<a href="#">species info</a>	Year-round
Louisiana Waterthrush ( <i>Parkesia motacilla</i> )	Yes	<a href="#">species info</a>	Breeding
Pied-billed Grebe ( <i>Podilymbus podiceps</i> )	Yes	<a href="#">species info</a>	Year-round
Prairie Warbler ( <i>Dendroica discolor</i> )	Yes	<a href="#">species info</a>	Breeding
Red-headed Woodpecker ( <i>Melanerpes erythrocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Rusty Blackbird ( <i>Euphagus carolinus</i> )	Yes	<a href="#">species info</a>	Wintering
Wood Thrush ( <i>Hylocichla mustelina</i> )	Yes	<a href="#">species info</a>	Breeding
Worm eating Warbler ( <i>Helmitheros vermivorum</i> )	Yes	<a href="#">species info</a>	Breeding
Yellow-Bellied sapsucker ( <i>sphyrapicus varius</i> )	Yes	<a href="#">species info</a>	Breeding

### ***NWI Wetlands ([USFWS National Wetlands Inventory](#)).***

The U.S. Fish and Wildlife Service is the principal Federal agency that provides information on the extent and status of wetlands in the U.S., via the National Wetlands Inventory Program (NWI). In addition to impacts to wetlands within your immediate project area, wetlands outside of your project area may need to be considered in any evaluation of project impacts, due to the hydrologic nature of wetlands (for example, project activities





U.S. Fish and Wildlife Service

## Trust Resources List

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**Endangered Species Act species list information for your project is available online and listed below for the following FWS Field Offices:**

**Virginia Ecological Services Field Office**  
6669 SHORT LANE  
GLOUCESTER, VA 23061  
(804) 693-6694  
<http://www.fws.gov/northeast/virginiafield/>

***Project Name:***

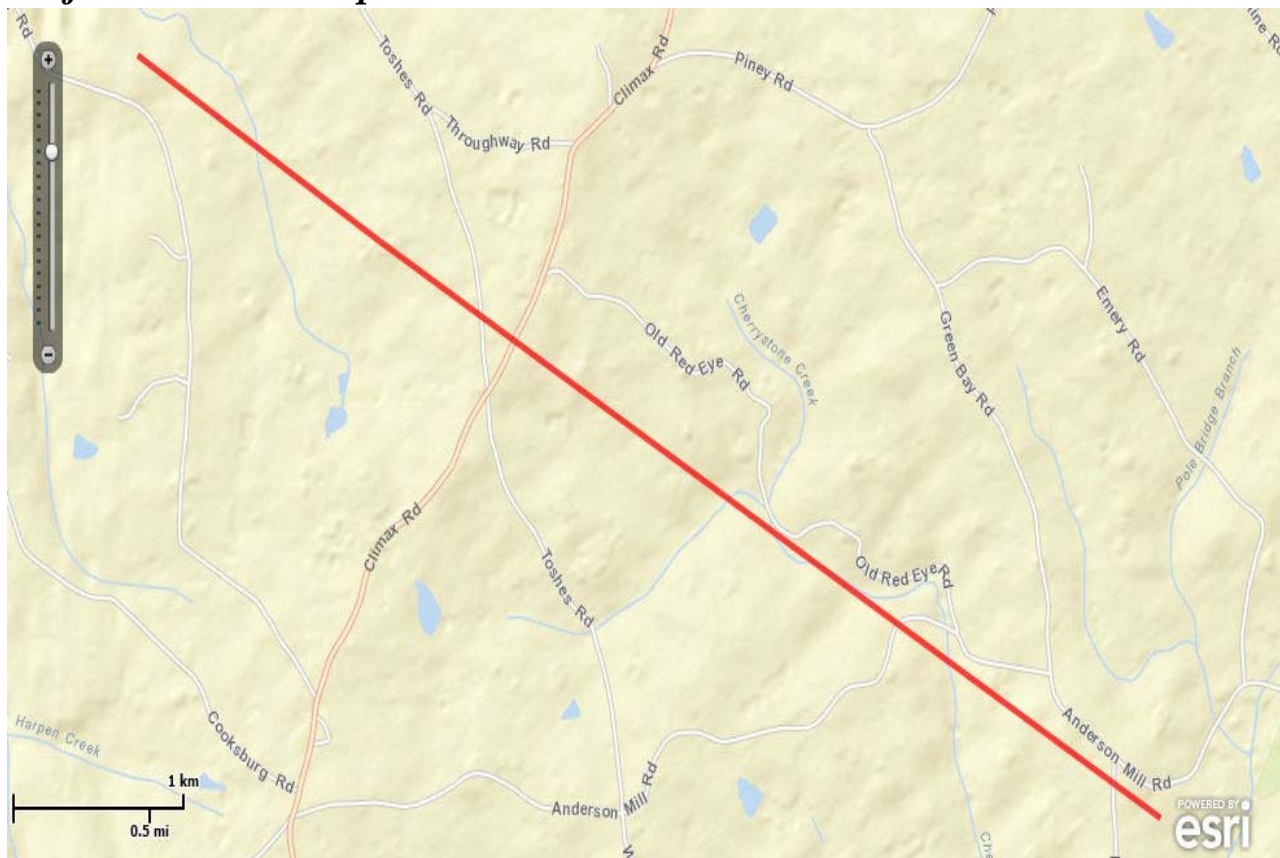
MVP\_REV3\_2-2\_20150304



U.S. Fish and Wildlife Service

## Trust Resources List

### ***Project Location Map:***



### ***Project Counties:***

Pittsylvania, VA

### ***Geographic coordinates (Open Geospatial Consortium Well-Known Text, NAD83):***

MULTIPOLYGON (((-79.4836756 36.9111122, -79.4836758 36.9111124, -79.4995761 36.918717, -79.4995824 36.9187216, -79.4995864 36.9187283, -79.4995875 36.9187361, -79.4995855 36.9187436, -79.4995809 36.9187499, -79.4995742 36.9187539, -79.4995664 36.918755, -79.4995589 36.918753, -79.4836587 36.9111485, -79.4318663 36.8873475, -79.43186 36.8873429, -79.4318559 36.8873362, -79.4318547 36.8873285, -79.4318565 36.8873209, -79.4318611 36.8873146, -79.4318678 36.8873105, -79.4318755 36.8873093, -79.4318831 36.8873111, -79.4836756 36.9111122)))





## Trust Resources List

### ***Project Type:***

Oil Or Gas

### ***Endangered Species Act Species List ([USFWS Endangered Species Program](#)).***

There are a total of 1 threatened or endangered species on your 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 fishes may appear on the species list because a project could cause downstream effects on the species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section below for critical habitat that lies within your project area. Please contact the designated FWS office if you have questions.

#### **Species that should be considered in an effects analysis for your project:**

Fishes	Status		Has Critical Habitat	Contact
Roanoke logperch ( <i>Percina rex</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office

#### **Critical habitats within your project area:**

*There are no critical habitats within your project area.*

### ***FWS National Wildlife Refuges ([USFWS National Wildlife Refuges Program](#)).***

*There are no refuges found within the vicinity of your project.*

### ***FWS Migratory Birds ([USFWS Migratory Bird Program](#)).***

The protection of birds is regulated by the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA). 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)). The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. For more information regarding these Acts see: <http://www.fws.gov/migratorybirds/RegulationsandPolicies.html>.



## Trust Resources List

All project proponents are responsible for complying with the appropriate regulations protecting birds when planning and developing a project. To meet these conservation obligations, proponents should identify potential or existing project-related impacts to migratory birds and their habitat and develop and implement conservation measures that avoid, minimize, or compensate for these impacts. The Service's Birds of Conservation Concern (2008) report identifies species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become listed under the Endangered Species Act as amended (16 U.S.C 1531 et seq.).

For information about Birds of Conservation Concern, go to:

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To search and view summaries of year-round bird occurrence data within your project area, go to the Avian Knowledge Network Histogram Tool links in the Bird Conservation Tools section at: <http://www.fws.gov/migratorybirds/CCMB2.htm>.

For information about conservation measures that help avoid or minimize impacts to birds, please visit:

<http://www.fws.gov/migratorybirds/CCMB2.htm>.

### Migratory birds of concern that may be affected by your project:

There are **14** birds on your Migratory birds of concern list. The underlying data layers used to generate the migratory bird list of concern will continue to be updated regularly as new and better information is obtained. User feedback is one method of identifying any needed improvements. Therefore, users are encouraged to submit comments about any questions regarding species ranges (e.g., a bird on the USFWS BCC list you know does not occur in the specified location appears on the list, or a BCC species that you know does occur there is not appearing on the list). Comments should be sent to [the ECOS Help Desk](#).

Species Name	Bird of Conservation Concern (BCC)	Species Profile	Seasonal Occurrence in Project Area
American bittern ( <i>Botaurus lentiginosus</i> )	Yes	<a href="#">species info</a>	Wintering
Bald eagle ( <i>Haliaeetus leucocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Blue-winged Warbler ( <i>Vermivora pinus</i> )	Yes	<a href="#">species info</a>	Breeding
Fox Sparrow ( <i>Passerella liaca</i> )	Yes	<a href="#">species info</a>	Wintering
Kentucky Warbler ( <i>Oporornis formosus</i> )	Yes	<a href="#">species info</a>	Breeding
Least Bittern ( <i>Ixobrychus exilis</i> )	Yes	<a href="#">species info</a>	Breeding



## Trust Resources List

Loggerhead Shrike ( <i>Lanius ludovicianus</i> )	Yes	<a href="#">species info</a>	Year-round
Pied-billed Grebe ( <i>Podilymbus podiceps</i> )	Yes	<a href="#">species info</a>	Year-round
Prairie Warbler ( <i>Dendroica discolor</i> )	Yes	<a href="#">species info</a>	Breeding
Prothonotary Warbler ( <i>Protonotaria citrea</i> )	Yes	<a href="#">species info</a>	Breeding
Red-headed Woodpecker ( <i>Melanerpes erythrocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Rusty Blackbird ( <i>Euphagus carolinus</i> )	Yes	<a href="#">species info</a>	Wintering
Wood Thrush ( <i>Hylocichla mustelina</i> )	Yes	<a href="#">species info</a>	Breeding
Worm eating Warbler ( <i>Helmitheros vermivorum</i> )	Yes	<a href="#">species info</a>	Breeding

### **NWI Wetlands ([USFWS National Wetlands Inventory](#)).**

The U.S. Fish and Wildlife Service is the principal Federal agency that provides information on the extent and status of wetlands in the U.S., via the National Wetlands Inventory Program (NWI). In addition to impacts to wetlands within your immediate project area, wetlands outside of your project area may need to be considered in any evaluation of project impacts, due to the hydrologic nature of wetlands (for example, project activities may affect local hydrology within, and outside of, your immediate project area). It may be helpful to refer to the USFWS National Wetland Inventory website. The designated FWS office can also assist you. Impacts to wetlands and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes. Project Proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate [U.S. Army Corps of Engineers District](#).

### **Data Limitations, Exclusions and Precautions**

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## Trust Resources List

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery and/or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

**Exclusions** - Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

**Precautions** - Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

**The following wetland types intersect your project area in one or more locations:**

Wetland Types	NWI Classification Code	Total Acres
Freshwater Forested/Shrub Wetland	<a href="#">PFO1/EM1A</a>	3.284
Freshwater Forested/Shrub Wetland	<a href="#">PFO1A</a>	10.7031



U.S. Fish and Wildlife Service

## Trust Resources List

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GLOUCESTER, VA 23061  
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<http://www.fws.gov/northeast/virginiafield/>

***Project Name:***

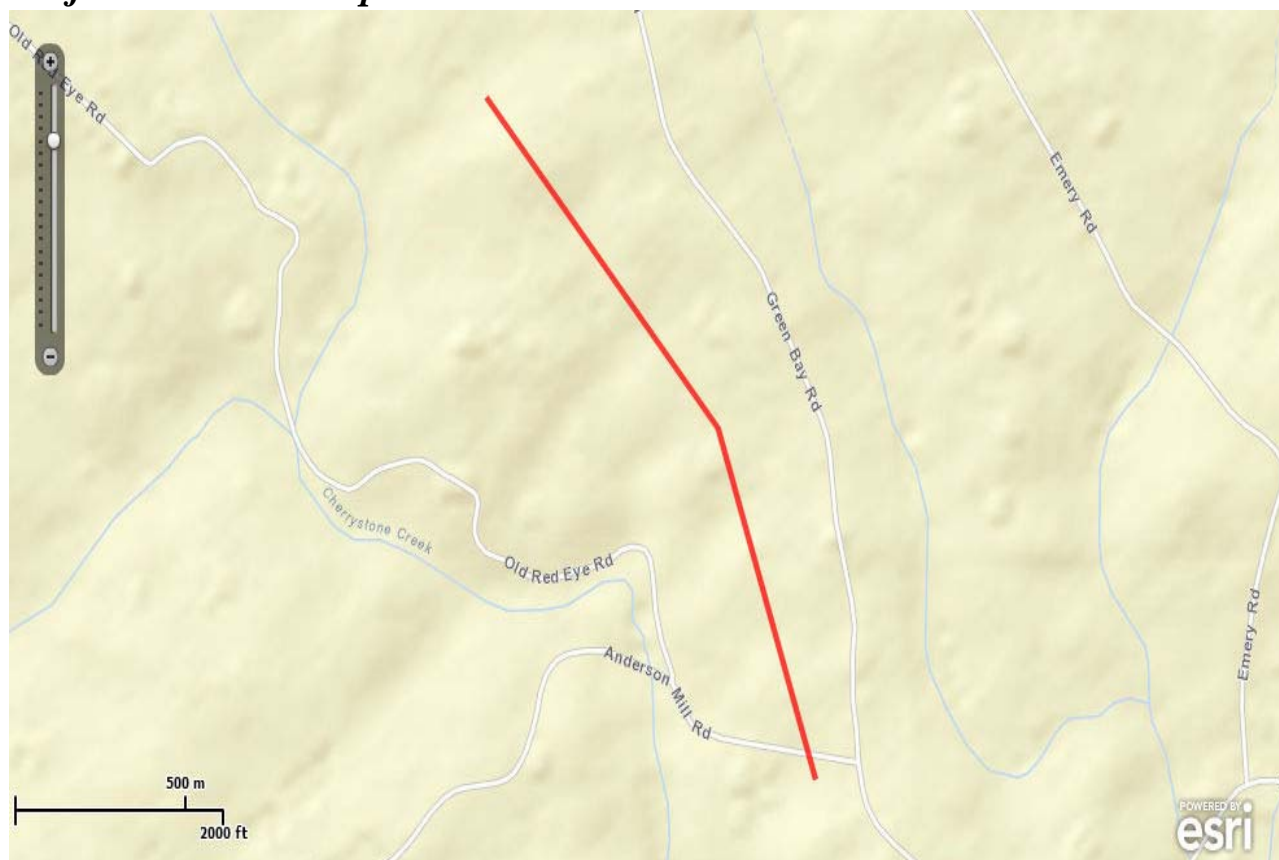
MVP\_REV3\_2-2\_20150304



U.S. Fish and Wildlife Service

## Trust Resources List

### ***Project Location Map:***



### ***Project Counties:***

Pittsylvania, VA

### ***Geographic coordinates (Open Geospatial Consortium Well-Known Text, NAD83):***

MULTIPOLYGON (((-79.4438331 36.9002086, -79.451498 36.9070154, -79.4515027 36.9070217, -79.4515047 36.9070292, -79.4515036 36.9070369, -79.4514997 36.9070437, -79.4514934 36.9070484, -79.4514859 36.9070504, -79.4514782 36.9070493, -79.4514714 36.9070454, -79.4438033 36.9002357, -79.4437983 36.9002288, -79.4405718 36.8929924, -79.4405701 36.8929848, -79.4405714 36.8929771, -79.4405756 36.8929705, -79.440582 36.8929666, -79.4405896 36.8929643, -79.4405973 36.8929656, -79.4406039 36.8929698, -79.4406084 36.8929762, -79.4438331 36.9002086)))





## Trust Resources List

### ***Project Type:***

Oil Or Gas

### ***Endangered Species Act Species List ([USFWS Endangered Species Program](#)).***

*There are no listed species found within the vicinity of your project.*

### ***Critical habitats within your project area:***

*There are no critical habitats within your project area.*

### ***FWS National Wildlife Refuges ([USFWS National Wildlife Refuges Program](#)).***

*There are no refuges found within the vicinity of your project.*

### ***FWS Migratory Birds ([USFWS Migratory Bird Program](#)).***

The protection of birds is regulated by the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA). 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)). The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. For more information regarding these Acts see: <http://www.fws.gov/migratorybirds/RegulationsandPolicies.html>.

All project proponents are responsible for complying with the appropriate regulations protecting birds when planning and developing a project. To meet these conservation obligations, proponents should identify potential or existing project-related impacts to migratory birds and their habitat and develop and implement conservation measures that avoid, minimize, or compensate for these impacts. The Service's Birds of Conservation Concern (2008) report identifies species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become listed under the Endangered Species Act as amended (16 U.S.C 1531 et seq.).

For information about Birds of Conservation Concern, go to:

<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Management/BCC.html>.



## Trust Resources List

To search and view summaries of year-round bird occurrence data within your project area, go to the Avian Knowledge Network Histogram Tool links in the Bird Conservation Tools section at: <http://www.fws.gov/migratorybirds/CCMB2.htm>.

For information about conservation measures that help avoid or minimize impacts to birds, please visit: <http://www.fws.gov/migratorybirds/CCMB2.htm>.

### Migratory birds of concern that may be affected by your project:

There are **14** birds on your Migratory birds of concern list. The underlying data layers used to generate the migratory bird list of concern will continue to be updated regularly as new and better information is obtained. User feedback is one method of identifying any needed improvements. Therefore, users are encouraged to submit comments about any questions regarding species ranges (e.g., a bird on the USFWS BCC list you know does not occur in the specified location appears on the list, or a BCC species that you know does occur there is not appearing on the list). Comments should be sent to [the ECOS Help Desk](#).

Species Name	Bird of Conservation Concern (BCC)	Species Profile	Seasonal Occurrence in Project Area
American bittern ( <i>Botaurus lentiginosus</i> )	Yes	<a href="#">species info</a>	Wintering
Bald eagle ( <i>Haliaeetus leucocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Blue-winged Warbler ( <i>Vermivora pinus</i> )	Yes	<a href="#">species info</a>	Breeding
Fox Sparrow ( <i>Passerella iliaca</i> )	Yes	<a href="#">species info</a>	Wintering
Kentucky Warbler ( <i>Oporornis formosus</i> )	Yes	<a href="#">species info</a>	Breeding
Least Bittern ( <i>Ixobrychus exilis</i> )	Yes	<a href="#">species info</a>	Breeding
Loggerhead Shrike ( <i>Lanius ludovicianus</i> )	Yes	<a href="#">species info</a>	Year-round
Pied-billed Grebe ( <i>Podilymbus podiceps</i> )	Yes	<a href="#">species info</a>	Year-round
Prairie Warbler ( <i>Dendroica discolor</i> )	Yes	<a href="#">species info</a>	Breeding
Prothonotary Warbler ( <i>Protonotaria citrea</i> )	Yes	<a href="#">species info</a>	Breeding



## Trust Resources List

Red-headed Woodpecker ( <i>Melanerpes erythrocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Rusty Blackbird ( <i>Euphagus carolinus</i> )	Yes	<a href="#">species info</a>	Wintering
Wood Thrush ( <i>Hylocichla mustelina</i> )	Yes	<a href="#">species info</a>	Breeding
Worm eating Warbler ( <i>Helmitheros vermivorum</i> )	Yes	<a href="#">species info</a>	Breeding

### ***NWI Wetlands ([USFWS National Wetlands Inventory](#)).***

The U.S. Fish and Wildlife Service is the principal Federal agency that provides information on the extent and status of wetlands in the U.S., via the National Wetlands Inventory Program (NWI). In addition to impacts to wetlands within your immediate project area, wetlands outside of your project area may need to be considered in any evaluation of project impacts, due to the hydrologic nature of wetlands (for example, project activities may affect local hydrology within, and outside of, your immediate project area). It may be helpful to refer to the USFWS National Wetland Inventory website. The designated FWS office can also assist you. Impacts to wetlands and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes. Project Proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate [U.S. Army Corps of Engineers District](#).

### **Data Limitations, Exclusions and Precautions**

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery and/or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.



## Trust Resources List

**Exclusions** - Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

**Precautions** - Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

*IPaC is unable to display wetland information at this time.*



U.S. Fish and Wildlife Service

## Trust Resources List

**This resource list is to be used for planning purposes only — it is not an official species list.**

**Endangered Species Act species list information for your project is available online and listed below for the following FWS Field Offices:**

**Virginia Ecological Services Field Office**  
6669 SHORT LANE  
GLOUCESTER, VA 23061  
(804) 693-6694  
<http://www.fws.gov/northeast/virginiafield/>

***Project Name:***

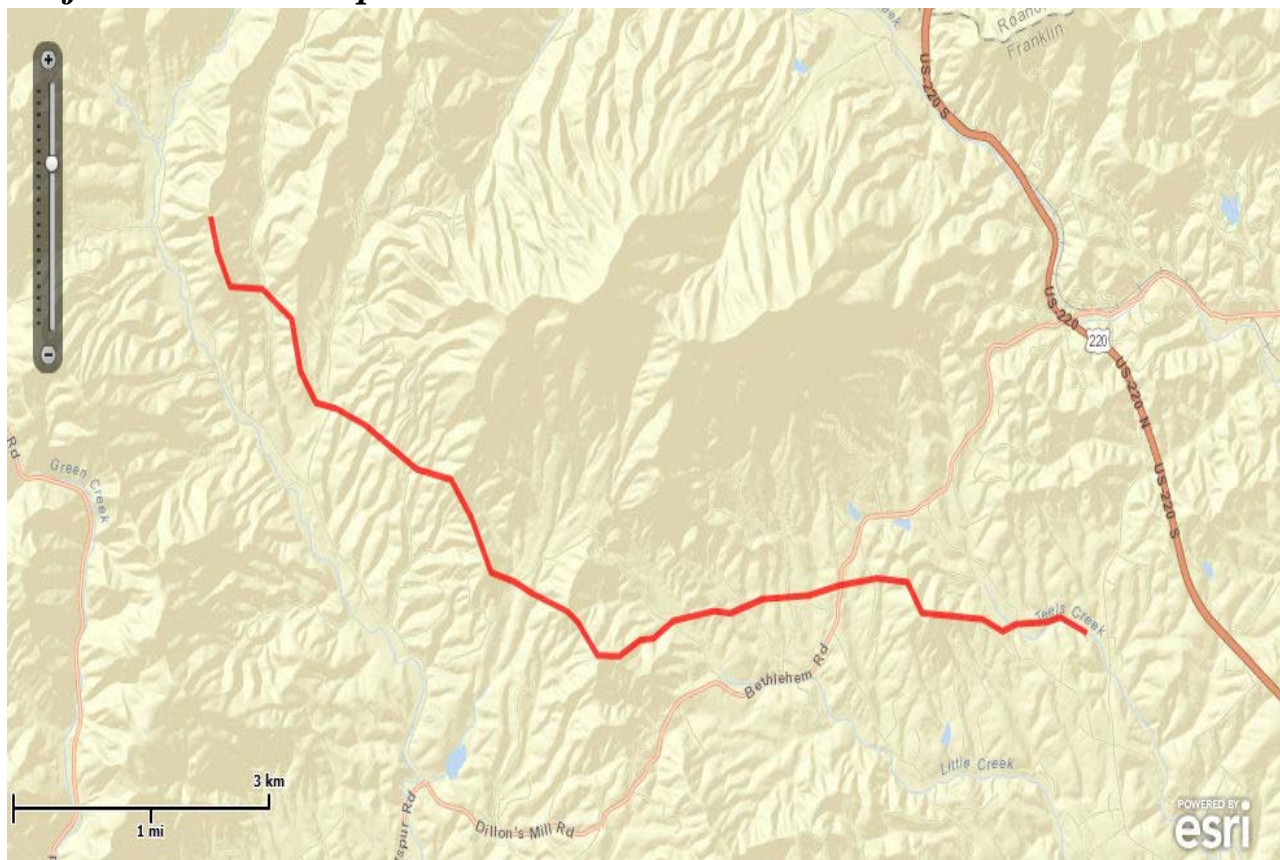
MVP\_REV3\_2-2\_20150304



U.S. Fish and Wildlife Service

## Trust Resources List

### *Project Location Map:*



### *Project Counties:*

Franklin, VA





## Trust Resources List

### ***Geographic coordinates (Open Geospatial Consortium Well-Known Text, NAD83):***

MULTIPOLYGON (((-79.9548792 37.0898499, -79.9566798 37.0894293, -79.9566834 37.0894288, -79.9606815 37.0892425, -79.9625307 37.0886763, -79.9625373 37.0886754, -79.9625438 37.0886767, -79.9651461 37.0896747, -79.9731982 37.0901779, -79.9732064 37.0901803, -79.9732129 37.0901858, -79.975138 37.0927159, -79.9791088 37.0930345, -79.9840995 37.0924309, -79.9881589 37.0916295, -79.9881618 37.0916291, -79.9942944 37.0913181, -79.9985647 37.0901539, -79.9985718 37.0901533, -80.0007006 37.0903478, -80.0060886 37.0895329, -80.0086791 37.0880989, -80.0086872 37.0880965, -80.0104676 37.0879557, -80.0132501 37.0866021, -80.0132594 37.0866001, -80.0161299 37.0866898, -80.0161375 37.0866916, -80.0161439 37.0866961, -80.0186915 37.0894073, -80.0201303 37.0903275, -80.0247008 37.0917462, -80.0247025 37.0917468, -80.0271102 37.0927385, -80.0302028 37.0934962, -80.0302099 37.0934996, -80.0302152 37.0935055, -80.0328657 37.0980095, -80.0355195 37.101143, -80.0401027 37.1019905, -80.0401085 37.1019926, -80.0468338 37.1055889, -80.0506684 37.1069553, -80.0533676 37.1074251, -80.0533744 37.1074276, -80.0533798 37.1074323, -80.0554481 37.1100208, -80.0554518 37.1100281, -80.0566016 37.1143209, -80.0604694 37.1167639, -80.0647642 37.1169805, -80.0647707 37.1169819, -80.0647763 37.1169854, -80.0647805 37.1169905, -80.0664058 37.1198042, -80.0664075 37.1198081, -80.0673492 37.1227352, -80.0673501 37.1227429, -80.067348 37.1227504, -80.0673431 37.1227565, -80.0673363 37.1227603, -80.0673286 37.1227612, -80.0673211 37.1227591, -80.067315 37.1227542, -80.0673112 37.1227474, -80.0663701 37.1198224, -80.0647513 37.1170199, -80.0604622 37.1168036, -80.0604525 37.1168005, -80.0565736 37.1143505, -80.0565682 37.1143455, -80.056565 37.1143388, -80.0554143 37.1100425, -80.0533533 37.1074632, -80.0506599 37.1069944, -80.0506566 37.1069935, -80.046819 37.105626, -80.0468163 37.1056248, -80.0400924 37.1020293, -80.0355052 37.1011811, -80.0354988 37.1011787, -80.0354935 37.1011743, -80.032834 37.098034, -80.0328321 37.0980312, -80.030185 37.093533, -80.0270992 37.092777, -80.0270964 37.0927761, -80.0246881 37.0917841, -80.0201159 37.0903649, -80.020111 37.0903626, -80.0186678 37.0894396, -80.018664 37.0894365, -80.0161204 37.0867295, -80.0132631 37.0866402, -80.0104816 37.0879933, -80.0104745 37.0879952, -80.0086947 37.088136, -80.0061048 37.0895696, -80.0060981 37.0895719, -80.0007042 37.0903877, -80.0006994 37.0903878, -79.9985718 37.0901934, -79.9943029 37.0913573, -79.9942986 37.091358, -79.9881653 37.091669, -79.9841065 37.0924703, -79.984105 37.0924706, -79.9791116 37.0930745, -79.9791076 37.0930745, -79.9751259 37.092755, -79.9751179 37.0927526, -79.9751116 37.0927472, -79.9731866 37.0902173, -79.9651406 37.0897145, -79.9651346 37.0897132, -79.9625359 37.0887165, -79.9606908 37.0892815, -79.9606858 37.0892824, -79.9566871 37.0894687, -79.9548824 37.0898902, -79.9548709 37.0898895, -79.9513189 37.0885712, -79.9513123 37.0885671, -79.9513077 37.0885607, -79.9513059 37.0885531, -79.9513071 37.0885454, -79.9513112 37.0885388, -79.9513176 37.0885342, -79.9513252 37.0885324, -79.9513329 37.0885336, -79.9548792 37.0898499)))

### ***Project Type:***

Oil Or Gas



## Trust Resources List

### ***Endangered Species Act Species List ([USFWS Endangered Species Program](#))***

There are a total of 2 threatened or endangered species on your 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 fishes may appear on the species list because a project could cause downstream effects on the species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section below for critical habitat that lies within your project area. Please contact the designated FWS office if you have questions.

#### **Species that should be considered in an effects analysis for your project:**

Fishes	Status		Has Critical Habitat	Contact
Roanoke logperch ( <i>Percina rex</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Insects				
Mitchell's Satyr Butterfly ( <i>Neonympha mitchellii mitchellii</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office

#### **Critical habitats within your project area:**

*There are no critical habitats within your project area.*

### ***FWS National Wildlife Refuges ([USFWS National Wildlife Refuges Program](#))***

*There are no refuges found within the vicinity of your project.*

### ***FWS Migratory Birds ([USFWS Migratory Bird Program](#))***

The protection of birds is regulated by the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA). 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)). The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. For more information regarding these Acts see: <http://www.fws.gov/migratorybirds/RegulationsandPolicies.html>.



## Trust Resources List

All project proponents are responsible for complying with the appropriate regulations protecting birds when planning and developing a project. To meet these conservation obligations, proponents should identify potential or existing project-related impacts to migratory birds and their habitat and develop and implement conservation measures that avoid, minimize, or compensate for these impacts. The Service's Birds of Conservation Concern (2008) report identifies species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become listed under the Endangered Species Act as amended (16 U.S.C 1531 et seq.).

For information about Birds of Conservation Concern, go to:

<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Management/BCC.html>.

To search and view summaries of year-round bird occurrence data within your project area, go to the Avian Knowledge Network Histogram Tool links in the Bird Conservation Tools section at: <http://www.fws.gov/migratorybirds/CCMB2.htm>.

For information about conservation measures that help avoid or minimize impacts to birds, please visit:

<http://www.fws.gov/migratorybirds/CCMB2.htm>.

### Migratory birds of concern that may be affected by your project:

There are **15** birds on your Migratory birds of concern list. The underlying data layers used to generate the migratory bird list of concern will continue to be updated regularly as new and better information is obtained. User feedback is one method of identifying any needed improvements. Therefore, users are encouraged to submit comments about any questions regarding species ranges (e.g., a bird on the USFWS BCC list you know does not occur in the specified location appears on the list, or a BCC species that you know does occur there is not appearing on the list). Comments should be sent to [the ECOS Help Desk](#).

Species Name	Bird of Conservation Concern (BCC)	Species Profile	Seasonal Occurrence in Project Area
Bald eagle ( <i>Haliaeetus leucocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Blue-winged Warbler ( <i>Vermivora pinus</i> )	Yes	<a href="#">species info</a>	Breeding
cerulean warbler ( <i>Dendroica cerulea</i> )	Yes	<a href="#">species info</a>	Breeding
Fox Sparrow ( <i>Passerella iliaca</i> )	Yes	<a href="#">species info</a>	Wintering
Golden-Winged Warbler ( <i>Vermivora chrysoptera</i> )	Yes	<a href="#">species info</a>	Breeding
Kentucky Warbler ( <i>Oporornis formosus</i> )	Yes	<a href="#">species info</a>	Breeding



## Trust Resources List

Loggerhead Shrike ( <i>Lanius ludovicianus</i> )	Yes	<a href="#">species info</a>	Year-round
Louisiana Waterthrush ( <i>Parkesia motacilla</i> )	Yes	<a href="#">species info</a>	Breeding
Pied-billed Grebe ( <i>Podilymbus podiceps</i> )	Yes	<a href="#">species info</a>	Year-round
Prairie Warbler ( <i>Dendroica discolor</i> )	Yes	<a href="#">species info</a>	Breeding
Red-headed Woodpecker ( <i>Melanerpes erythrocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Rusty Blackbird ( <i>Euphagus carolinus</i> )	Yes	<a href="#">species info</a>	Wintering
Wood Thrush ( <i>Hylocichla mustelina</i> )	Yes	<a href="#">species info</a>	Breeding
Worm eating Warbler ( <i>Helmitheros vermivorum</i> )	Yes	<a href="#">species info</a>	Breeding
Yellow-Bellied sapsucker ( <i>sphyrapicus varius</i> )	Yes	<a href="#">species info</a>	Breeding

### ***NWI Wetlands ([USFWS National Wetlands Inventory](#)).***

The U.S. Fish and Wildlife Service is the principal Federal agency that provides information on the extent and status of wetlands in the U.S., via the National Wetlands Inventory Program (NWI). In addition to impacts to wetlands within your immediate project area, wetlands outside of your project area may need to be considered in any evaluation of project impacts, due to the hydrologic nature of wetlands (for example, project activities may affect local hydrology within, and outside of, your immediate project area). It may be helpful to refer to the USFWS National Wetland Inventory website. The designated FWS office can also assist you. Impacts to wetlands and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes. Project Proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate [U.S. Army Corps of Engineers District](#).

### **Data Limitations, Exclusions and Precautions**

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of



## Trust Resources List

error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery and/or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

**Exclusions** - Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

**Precautions** - Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

**The following wetland types intersect your project area in one or more locations:**

Wetland Types	NWI Classification Code	Total Acres
Freshwater Forested/Shrub Wetland	<a href="#">PSS1C</a>	3.7806



U.S. Fish and Wildlife Service

## Trust Resources List

**This resource list is to be used for planning purposes only — it is not an official species list.**

**Endangered Species Act species list information for your project is available online and listed below for the following FWS Field Offices:**

**Virginia Ecological Services Field Office**  
6669 SHORT LANE  
GLOUCESTER, VA 23061  
(804) 693-6694  
<http://www.fws.gov/northeast/virginiafield/>

***Project Name:***

MVP\_REV3\_2-2\_20150304

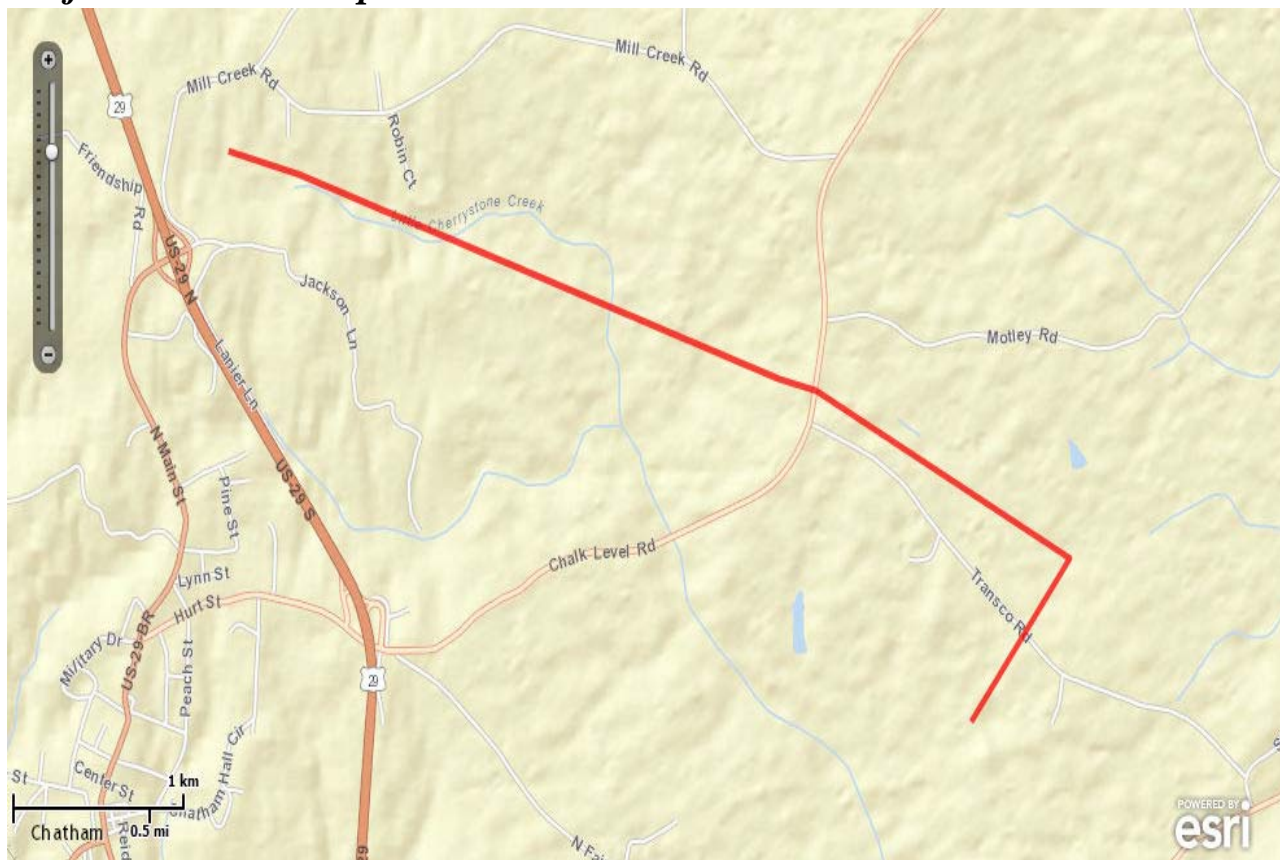




U.S. Fish and Wildlife Service

## Trust Resources List

### ***Project Location Map:***



### ***Project Counties:***

Pittsylvania, VA



## Trust Resources List

### ***Geographic coordinates (Open Geospatial Consortium Well-Known Text, NAD83):***

MULTIPOLYGON (((-79.3853016 36.8523686, -79.3853005 36.8523683, -79.3535954 36.8439547, -79.3510928 36.8434622, -79.3510891 36.8434611, -79.3343114 36.8365591, -79.3343049 36.8365548, -79.3343006 36.8365484, -79.334299 36.8365408, -79.3343004 36.8365332, -79.3343046 36.8365267, -79.3408272 36.8297912, -79.3408337 36.8297867, -79.3408413 36.8297851, -79.340849 36.8297865, -79.3408555 36.8297907, -79.34086 36.8297972, -79.3408616 36.8298048, -79.3408602 36.8298125, -79.340856 36.829819, -79.3343539 36.8365333, -79.3511025 36.8434234, -79.3536038 36.8439156, -79.353605 36.8439159, -79.3853102 36.8523295, -79.3899931 36.853292, -79.3900003 36.853295, -79.3900058 36.8533006, -79.3900087 36.8533078, -79.3900087 36.8533156, -79.3900057 36.8533228, -79.3900001 36.8533283, -79.3899929 36.8533312, -79.3899851 36.8533312, -79.3853016 36.8523686))))

### ***Project Type:***

Oil Or Gas

### ***Endangered Species Act Species List ([USFWS Endangered Species Program](#)).***

*There are no listed species found within the vicinity of your project.*

### ***Critical habitats within your project area:***

*There are no critical habitats within your project area.*

### ***FWS National Wildlife Refuges ([USFWS National Wildlife Refuges Program](#)).***

*There are no refuges found within the vicinity of your project.*

### ***FWS Migratory Birds ([USFWS Migratory Bird Program](#)).***

The protection of birds is regulated by the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA). 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)). The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. For more information regarding these Acts see: <http://www.fws.gov/migratorybirds/RegulationsandPolicies.html>.



## Trust Resources List

All project proponents are responsible for complying with the appropriate regulations protecting birds when planning and developing a project. To meet these conservation obligations, proponents should identify potential or existing project-related impacts to migratory birds and their habitat and develop and implement conservation measures that avoid, minimize, or compensate for these impacts. The Service's Birds of Conservation Concern (2008) report identifies species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become listed under the Endangered Species Act as amended (16 U.S.C 1531 et seq.).

For information about Birds of Conservation Concern, go to:

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To search and view summaries of year-round bird occurrence data within your project area, go to the Avian Knowledge Network Histogram Tool links in the Bird Conservation Tools section at: <http://www.fws.gov/migratorybirds/CCMB2.htm>.

For information about conservation measures that help avoid or minimize impacts to birds, please visit:

<http://www.fws.gov/migratorybirds/CCMB2.htm>.

### Migratory birds of concern that may be affected by your project:

There are **14** birds on your Migratory birds of concern list. The underlying data layers used to generate the migratory bird list of concern will continue to be updated regularly as new and better information is obtained. User feedback is one method of identifying any needed improvements. Therefore, users are encouraged to submit comments about any questions regarding species ranges (e.g., a bird on the USFWS BCC list you know does not occur in the specified location appears on the list, or a BCC species that you know does occur there is not appearing on the list). Comments should be sent to [the ECOS Help Desk](#).

Species Name	Bird of Conservation Concern (BCC)	Species Profile	Seasonal Occurrence in Project Area
American bittern ( <i>Botaurus lentiginosus</i> )	Yes	<a href="#">species info</a>	Wintering
Bald eagle ( <i>Haliaeetus leucocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Blue-winged Warbler ( <i>Vermivora pinus</i> )	Yes	<a href="#">species info</a>	Breeding
Fox Sparrow ( <i>Passerella iliaca</i> )	Yes	<a href="#">species info</a>	Wintering
Kentucky Warbler ( <i>Oporornis formosus</i> )	Yes	<a href="#">species info</a>	Breeding
Least Bittern ( <i>Ixobrychus exilis</i> )	Yes	<a href="#">species info</a>	Breeding



## Trust Resources List

Loggerhead Shrike ( <i>Lanius ludovicianus</i> )	Yes	<a href="#">species info</a>	Year-round
Pied-billed Grebe ( <i>Podilymbus podiceps</i> )	Yes	<a href="#">species info</a>	Year-round
Prairie Warbler ( <i>Dendroica discolor</i> )	Yes	<a href="#">species info</a>	Breeding
Prothonotary Warbler ( <i>Protonotaria citrea</i> )	Yes	<a href="#">species info</a>	Breeding
Red-headed Woodpecker ( <i>Melanerpes erythrocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Rusty Blackbird ( <i>Euphagus carolinus</i> )	Yes	<a href="#">species info</a>	Wintering
Wood Thrush ( <i>Hylocichla mustelina</i> )	Yes	<a href="#">species info</a>	Breeding
Worm eating Warbler ( <i>Helmitheros vermivorum</i> )	Yes	<a href="#">species info</a>	Breeding

### **NWI Wetlands ([USFWS National Wetlands Inventory](#)).**

The U.S. Fish and Wildlife Service is the principal Federal agency that provides information on the extent and status of wetlands in the U.S., via the National Wetlands Inventory Program (NWI). In addition to impacts to wetlands within your immediate project area, wetlands outside of your project area may need to be considered in any evaluation of project impacts, due to the hydrologic nature of wetlands (for example, project activities may affect local hydrology within, and outside of, your immediate project area). It may be helpful to refer to the USFWS National Wetland Inventory website. The designated FWS office can also assist you. Impacts to wetlands and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes. Project Proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate [U.S. Army Corps of Engineers District](#).

### **Data Limitations, Exclusions and Precautions**

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## Trust Resources List

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery and/or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

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**Precautions** - Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

**The following wetland types intersect your project area in one or more locations:**

Wetland Types	NWI Classification Code	Total Acres
Freshwater Emergent Wetland	<a href="#">PEM1C</a>	0.5014
Freshwater Pond	<a href="#">PUBHh</a>	0.7694



U.S. Fish and Wildlife Service

## Trust Resources List

**This resource list is to be used for planning purposes only — it is not an official species list.**

**Endangered Species Act species list information for your project is available online and listed below for the following FWS Field Offices:**

**Virginia Ecological Services Field Office**  
6669 SHORT LANE  
GLOUCESTER, VA 23061  
(804) 693-6694  
<http://www.fws.gov/northeast/virginiafield/>

***Project Name:***

MVP\_REV3\_2-2\_20150304

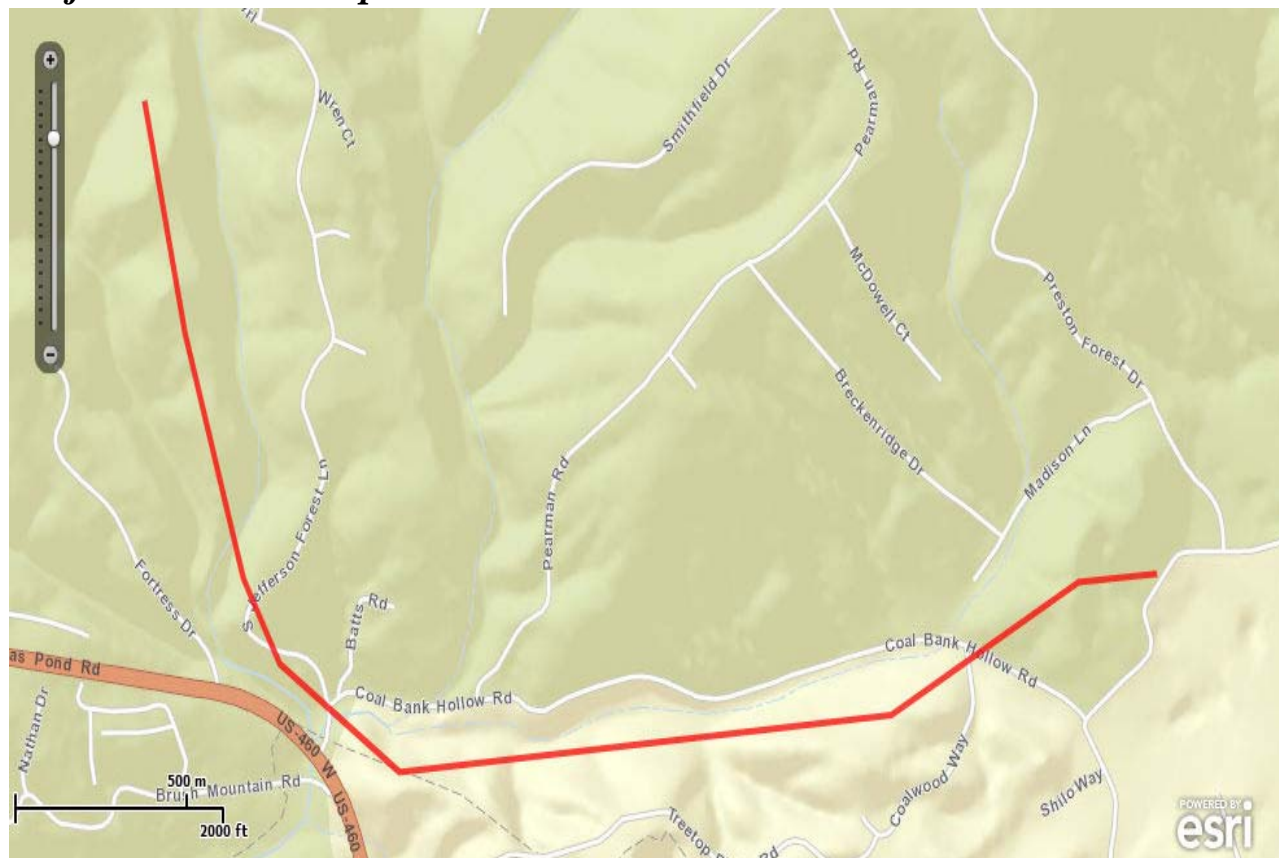




U.S. Fish and Wildlife Service

## Trust Resources List

### ***Project Location Map:***



### ***Project Counties:***

Montgomery, VA



## Trust Resources List

### ***Geographic coordinates (Open Geospatial Consortium Well-Known Text, NAD83):***

MULTIPOLYGON (((-80.3945101 37.2799127, -80.4007087 37.2771913, -80.4007153 37.2771897, -80.4169767 37.2760129, -80.4169879 37.2760153, -80.4209591 37.2782347, -80.4209658 37.2782409, -80.4221627 37.2799991, -80.4221649 37.2800032, -80.4241008 37.285016, -80.4241014 37.2850178, -80.4254423 37.2897824, -80.4254429 37.2897902, -80.4254404 37.2897976, -80.4254354 37.2898035, -80.4254284 37.2898071, -80.4254206 37.2898077, -80.4254132 37.2898052, -80.4254073 37.2898002, -80.4254037 37.2897932, -80.4240631 37.2850295, -80.4221284 37.2800198, -80.4209354 37.2782674, -80.4169736 37.2760532, -80.4007216 37.2772293, -80.3945229 37.2799507, -80.3945162 37.2799524, -80.3919176 37.2801213, -80.3919099 37.2801202, -80.3919031 37.2801163, -80.3918984 37.2801101, -80.3918963 37.2801026, -80.3918974 37.2800949, -80.3919013 37.2800881, -80.3919075 37.2800834, -80.391915 37.2800813, -80.3945101 37.2799127)))

### ***Project Type:***

Oil Or Gas

### ***Endangered Species Act Species List ([USFWS Endangered Species Program](#)).***

There are a total of 2 threatened or endangered species on your 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 fishes may appear on the species list because a project could cause downstream effects on the species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section below for critical habitat that lies within your project area. Please contact the designated FWS office if you have questions.

### **Species that should be considered in an effects analysis for your project:**

Insects	Status		Has Critical Habitat	Contact
Mitchell's Satyr Butterfly ( <i>Neonympha mitchellii mitchellii</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Mammals				
Indiana bat ( <i>Myotis sodalis</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office

### **Critical habitats within your project area:**



## Trust Resources List

*There are no critical habitats within your project area.*

### ***FWS National Wildlife Refuges ([USFWS National Wildlife Refuges Program](#)).***

*There are no refuges found within the vicinity of your project.*

### ***FWS Migratory Birds ([USFWS Migratory Bird Program](#)).***

The protection of birds is regulated by the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA). 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)). The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. For more information regarding these Acts see: <http://www.fws.gov/migratorybirds/RegulationsandPolicies.html>.

All project proponents are responsible for complying with the appropriate regulations protecting birds when planning and developing a project. To meet these conservation obligations, proponents should identify potential or existing project-related impacts to migratory birds and their habitat and develop and implement conservation measures that avoid, minimize, or compensate for these impacts. The Service's Birds of Conservation Concern (2008) report identifies species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become listed under the Endangered Species Act as amended (16 U.S.C 1531 et seq.).

For information about Birds of Conservation Concern, go to:

<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Management/BCC.html>.

To search and view summaries of year-round bird occurrence data within your project area, go to the Avian Knowledge Network Histogram Tool links in the Bird Conservation Tools section at: <http://www.fws.gov/migratorybirds/CCMB2.htm>.

For information about conservation measures that help avoid or minimize impacts to birds, please visit:

<http://www.fws.gov/migratorybirds/CCMB2.htm>.

### **Migratory birds of concern that may be affected by your project:**

There are **16** birds on your Migratory birds of concern list. The underlying data layers used to generate the migratory bird list of concern will continue to be updated regularly as new and better information is obtained. User feedback is one method of identifying any needed improvements. Therefore, users are encouraged to submit comments about any questions regarding species ranges (e.g., a bird on the USFWS BCC list you know



## Trust Resources List

does not occur in the specified location appears on the list, or a BCC species that you know does occur there is not appearing on the list). Comments should be sent to [the ECOS Help Desk](#).

Species Name	Bird of Conservation Concern (BCC)	Species Profile	Seasonal Occurrence in Project Area
Bald eagle ( <i>Haliaeetus leucocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Black-billed Cuckoo ( <i>Coccyzus erythrophthalmus</i> )	Yes	<a href="#">species info</a>	Breeding
Blue-winged Warbler ( <i>Vermivora pinus</i> )	Yes	<a href="#">species info</a>	Breeding
Canada Warbler ( <i>Wilsonia canadensis</i> )	Yes	<a href="#">species info</a>	Breeding
Fox Sparrow ( <i>Passerella iliaca</i> )	Yes	<a href="#">species info</a>	Wintering
Golden-Winged Warbler ( <i>Vermivora chrysoptera</i> )	Yes	<a href="#">species info</a>	Breeding
Kentucky Warbler ( <i>Oporornis formosus</i> )	Yes	<a href="#">species info</a>	Breeding
Loggerhead Shrike ( <i>Lanius ludovicianus</i> )	Yes	<a href="#">species info</a>	Year-round
Louisiana Waterthrush ( <i>Parkesia motacilla</i> )	Yes	<a href="#">species info</a>	Breeding
Pied-billed Grebe ( <i>Podilymbus podiceps</i> )	Yes	<a href="#">species info</a>	Year-round
Prairie Warbler ( <i>Dendroica discolor</i> )	Yes	<a href="#">species info</a>	Breeding
Red-headed Woodpecker ( <i>Melanerpes erythrocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Rusty Blackbird ( <i>Euphagus carolinus</i> )	Yes	<a href="#">species info</a>	Wintering
Wood Thrush ( <i>Hylocichla mustelina</i> )	Yes	<a href="#">species info</a>	Breeding
Worm eating Warbler ( <i>Helmitheros vermivorum</i> )	Yes	<a href="#">species info</a>	Breeding
Yellow-Bellied sapsucker ( <i>sphyrapicus varius</i> )	Yes	<a href="#">species info</a>	Breeding



## Trust Resources List

### ***NWI Wetlands ([USFWS National Wetlands Inventory](#)).***

The U.S. Fish and Wildlife Service is the principal Federal agency that provides information on the extent and status of wetlands in the U.S., via the National Wetlands Inventory Program (NWI). In addition to impacts to wetlands within your immediate project area, wetlands outside of your project area may need to be considered in any evaluation of project impacts, due to the hydrologic nature of wetlands (for example, project activities may affect local hydrology within, and outside of, your immediate project area). It may be helpful to refer to the USFWS National Wetland Inventory website. The designated FWS office can also assist you. Impacts to wetlands and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes. Project Proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate [U.S. Army Corps of Engineers District](#).

### **Data Limitations, Exclusions and Precautions**

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery and/or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

**Exclusions** - Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

**Precautions** - Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local



## Trust Resources List

government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

**The following wetland types intersect your project area in one or more locations:**

Wetland Types	NWI Classification Code	Total Acres
Freshwater Pond	<a href="#">PUBHh</a>	0.0452





U.S. Fish and Wildlife Service

## Trust Resources List

**This resource list is to be used for planning purposes only — it is not an official species list.**

**Endangered Species Act species list information for your project is available online and listed below for the following FWS Field Offices:**

**Virginia Ecological Services Field Office**  
6669 SHORT LANE  
GLOUCESTER, VA 23061  
(804) 693-6694  
<http://www.fws.gov/northeast/virginiafield/>

***Project Name:***

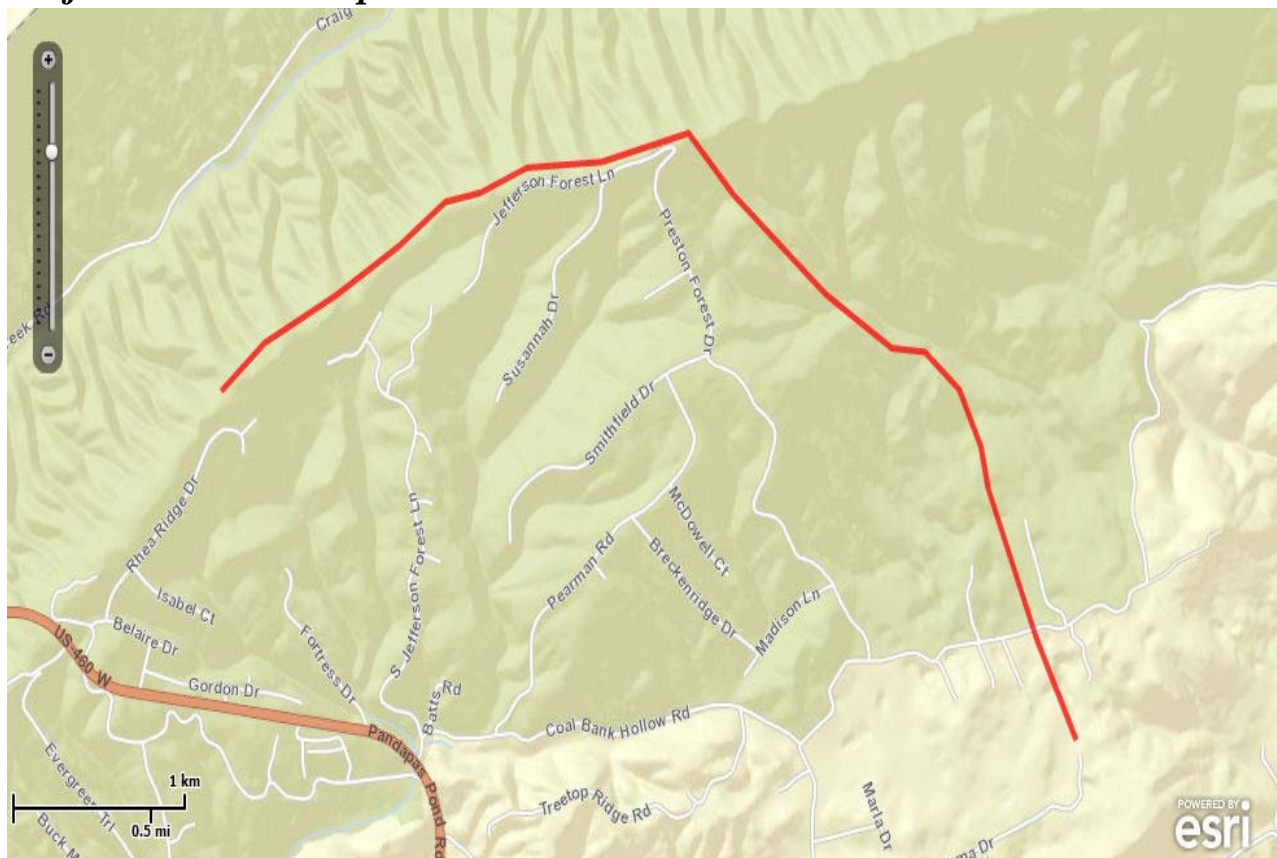
MVP\_REV3\_2-2\_20150304



U.S. Fish and Wildlife Service

## Trust Resources List

### ***Project Location Map:***



### ***Project Counties:***

Montgomery, VA



## Trust Resources List

### ***Geographic coordinates (Open Geospatial Consortium Well-Known Text, NAD83):***

MULTIPOLYGON (((-80.3786327 37.2814831, -80.3786335 37.2814846, -80.3818392 37.2876343, -80.3818408 37.2876382, -80.3823101 37.2893339, -80.3837502 37.2916783, -80.3859998 37.2931987, -80.3881958 37.2933608, -80.3882033 37.2933628, -80.392565 37.2955612, -80.3925671 37.2955625, -80.398683 37.2996389, -80.3986849 37.2996403, -80.4016502 37.3021658, -80.4073904 37.3009953, -80.4073934 37.3009949, -80.4123225 37.3007501, -80.4154128 37.2997273, -80.4154159 37.2997266, -80.4177283 37.2993524, -80.4207959 37.2975472, -80.4207972 37.2975464, -80.4249526 37.2955242, -80.4249538 37.2955237, -80.4296878 37.2935762, -80.4325526 37.2916123, -80.4325598 37.2916092, -80.4325676 37.2916091, -80.4325748 37.291612, -80.4325804 37.2916175, -80.4325835 37.2916247, -80.4325836 37.2916325, -80.4325807 37.2916397, -80.4325752 37.2916453, -80.4297087 37.2936104, -80.429705 37.2936124, -80.4249696 37.2955605, -80.4208155 37.297582, -80.4177453 37.2993887, -80.4177384 37.2993912, -80.4154239 37.2997658, -80.4123325 37.3007889, -80.4123272 37.3007899, -80.4073969 37.3010348, -80.4016486 37.3022069, -80.4016396 37.3022067, -80.4016316 37.3022025, -80.3986598 37.2996715, -80.3925459 37.2955964, -80.3881889 37.2934004, -80.3859915 37.2932382, -80.3859818 37.2932349, -80.3837242 37.2917091, -80.3837184 37.291703, -80.3822746 37.2893525, -80.3822723 37.2893473, -80.3818028 37.2876509, -80.3785985 37.2815038, -80.3759596 37.2773354, -80.3759568 37.2773281, -80.375957 37.2773203, -80.3759601 37.2773132, -80.3759658 37.2773078, -80.3759731 37.277305, -80.3759809 37.2773052, -80.375988 37.2773083, -80.3759934 37.277314, -80.3786327 37.2814831)))

### ***Project Type:***

Oil Or Gas

### ***Endangered Species Act Species List ([USFWS Endangered Species Program](#)).***

There are a total of 3 threatened or endangered species on your 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 fishes may appear on the species list because a project could cause downstream effects on the species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section below for critical habitat that lies within your project area. Please contact the designated FWS office if you have questions.

### **Species that should be considered in an effects analysis for your project:**

Fishes	Status		Has Critical Habitat	Contact
Roanoke logperch ( <i>Percina rex</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office



## Trust Resources List

Insects				
Mitchell's Satyr Butterfly ( <i>Neonympha mitchellii mitchellii</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Mammals				
Indiana bat ( <i>Myotis sodalis</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office

### Critical habitats within your project area:

*There are no critical habitats within your project area.*

### FWS National Wildlife Refuges ([USFWS National Wildlife Refuges Program](#)).

*There are no refuges found within the vicinity of your project.*

### FWS Migratory Birds ([USFWS Migratory Bird Program](#)).

The protection of birds is regulated by the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA). 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)). The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. For more information regarding these Acts see: <http://www.fws.gov/migratorybirds/RegulationsandPolicies.html>.

All project proponents are responsible for complying with the appropriate regulations protecting birds when planning and developing a project. To meet these conservation obligations, proponents should identify potential or existing project-related impacts to migratory birds and their habitat and develop and implement conservation measures that avoid, minimize, or compensate for these impacts. The Service's Birds of Conservation Concern (2008) report identifies species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become listed under the Endangered Species Act as amended (16 U.S.C 1531 et seq.).



## Trust Resources List

For information about Birds of Conservation Concern, go to:

<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Management/BCC.html>.

To search and view summaries of year-round bird occurrence data within your project area, go to the Avian Knowledge Network Histogram Tool links in the Bird Conservation Tools section at: <http://www.fws.gov/migratorybirds/CCMB2.htm>.

For information about conservation measures that help avoid or minimize impacts to birds, please visit:

<http://www.fws.gov/migratorybirds/CCMB2.htm>.

### Migratory birds of concern that may be affected by your project:

There are **16** birds on your Migratory birds of concern list. The underlying data layers used to generate the migratory bird list of concern will continue to be updated regularly as new and better information is obtained. User feedback is one method of identifying any needed improvements. Therefore, users are encouraged to submit comments about any questions regarding species ranges (e.g., a bird on the USFWS BCC list you know does not occur in the specified location appears on the list, or a BCC species that you know does occur there is not appearing on the list). Comments should be sent to [the ECOS Help Desk](#).

Species Name	Bird of Conservation Concern (BCC)	Species Profile	Seasonal Occurrence in Project Area
Bald eagle ( <i>Haliaeetus leucocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Black-billed Cuckoo ( <i>Coccyzus erythrophthalmus</i> )	Yes	<a href="#">species info</a>	Breeding
Blue-winged Warbler ( <i>Vermivora pinus</i> )	Yes	<a href="#">species info</a>	Breeding
Canada Warbler ( <i>Wilsonia canadensis</i> )	Yes	<a href="#">species info</a>	Breeding
Fox Sparrow ( <i>Passerella iliaca</i> )	Yes	<a href="#">species info</a>	Wintering
Golden-Winged Warbler ( <i>Vermivora chrysoptera</i> )	Yes	<a href="#">species info</a>	Breeding
Kentucky Warbler ( <i>Oporornis formosus</i> )	Yes	<a href="#">species info</a>	Breeding
Loggerhead Shrike ( <i>Lanius ludovicianus</i> )	Yes	<a href="#">species info</a>	Year-round
Louisiana Waterthrush ( <i>Parkesia motacilla</i> )	Yes	<a href="#">species info</a>	Breeding



## Trust Resources List

Pied-billed Grebe ( <i>Podilymbus podiceps</i> )	Yes	<a href="#">species info</a>	Year-round
Prairie Warbler ( <i>Dendroica discolor</i> )	Yes	<a href="#">species info</a>	Breeding
Red-headed Woodpecker ( <i>Melanerpes erythrocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Rusty Blackbird ( <i>Euphagus carolinus</i> )	Yes	<a href="#">species info</a>	Wintering
Wood Thrush ( <i>Hylocichla mustelina</i> )	Yes	<a href="#">species info</a>	Breeding
Worm eating Warbler ( <i>Helmitheros vermivorum</i> )	Yes	<a href="#">species info</a>	Breeding
Yellow-Bellied sapsucker ( <i>sphyrapicus varius</i> )	Yes	<a href="#">species info</a>	Breeding

### ***NWI Wetlands ([USFWS National Wetlands Inventory](#)).***

The U.S. Fish and Wildlife Service is the principal Federal agency that provides information on the extent and status of wetlands in the U.S., via the National Wetlands Inventory Program (NWI). In addition to impacts to wetlands within your immediate project area, wetlands outside of your project area may need to be considered in any evaluation of project impacts, due to the hydrologic nature of wetlands (for example, project activities may affect local hydrology within, and outside of, your immediate project area). It may be helpful to refer to the USFWS National Wetland Inventory website. The designated FWS office can also assist you. Impacts to wetlands and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes. Project Proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate [U.S. Army Corps of Engineers District](#).

### **Data Limitations, Exclusions and Precautions**

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work





## Trust Resources List

conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery and/or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

**Exclusions** - Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

**Precautions** - Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

*IPaC is unable to display wetland information at this time.*



U.S. Fish and Wildlife Service

## Trust Resources List

**This resource list is to be used for planning purposes only — it is not an official species list.**

**Endangered Species Act species list information for your project is available online and listed below for the following FWS Field Offices:**

**Virginia Ecological Services Field Office**  
6669 SHORT LANE  
GLOUCESTER, VA 23061  
(804) 693-6694  
<http://www.fws.gov/northeast/virginiafield/>

***Project Name:***

MVP\_REV3\_2-2\_20150304



U.S. Fish and Wildlife Service

## Trust Resources List

### *Project Location Map:*



### *Project Counties:*

Montgomery, VA

### *Geographic coordinates (Open Geospatial Consortium Well-Known Text, NAD83):*

MULTIPOLYGON (((-80.353847 37.2695949, -80.3538548 37.2695947, -80.3538621 37.2695976, -80.3595325 37.2732884, -80.3595381 37.2732939, -80.3595412 37.2733011, -80.3595413 37.2733089, -80.3595384 37.2733161, -80.3595329 37.2733217, -80.3595257 37.2733248, -80.3595179 37.2733249, -80.3595107 37.2733222, -80.3538473 37.2696357, -80.3455449 37.2714391, -80.3455371 37.2714393, -80.3455299 37.2714364, -80.3455243 37.271431, -80.3455212 37.2714238, -80.345521 37.271416, -80.3455239 37.2714088, -80.3455293 37.2714032, -80.3455365 37.2714001, -80.353847 37.2695949)))



## Trust Resources List

### ***Project Type:***

Oil Or Gas

### ***Endangered Species Act Species List ([USFWS Endangered Species Program](#)).***

There are a total of 4 threatened or endangered species on your 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 fishes may appear on the species list because a project could cause downstream effects on the species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section below for critical habitat that lies within your project area. Please contact the designated FWS office if you have questions.

### **Species that should be considered in an effects analysis for your project:**

Fishes	Status		Has Critical Habitat	Contact
Roanoke logperch ( <i>Percina rex</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Flowering Plants				
Smooth coneflower ( <i>Echinacea laevigata</i> )	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Insects				
Mitchell's Satyr Butterfly ( <i>Neonympha mitchellii mitchellii</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office
Mammals				
Indiana bat ( <i>Myotis sodalis</i> ) Population: Entire	Endangered	<a href="#">species info</a>		Virginia Ecological Services Field Office

### **Critical habitats within your project area:**

*There are no critical habitats within your project area.*



## Trust Resources List

### ***FWS National Wildlife Refuges ([USFWS National Wildlife Refuges Program](#)).***

*There are no refuges found within the vicinity of your project.*

### ***FWS Migratory Birds ([USFWS Migratory Bird Program](#)).***

The protection of birds is regulated by the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA). 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)). The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. For more information regarding these Acts see: <http://www.fws.gov/migratorybirds/RegulationsandPolicies.html>.

All project proponents are responsible for complying with the appropriate regulations protecting birds when planning and developing a project. To meet these conservation obligations, proponents should identify potential or existing project-related impacts to migratory birds and their habitat and develop and implement conservation measures that avoid, minimize, or compensate for these impacts. The Service's Birds of Conservation Concern (2008) report identifies species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become listed under the Endangered Species Act as amended (16 U.S.C 1531 et seq.).

For information about Birds of Conservation Concern, go to:

<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Management/BCC.html>.

To search and view summaries of year-round bird occurrence data within your project area, go to the Avian Knowledge Network Histogram Tool links in the Bird Conservation Tools section at: <http://www.fws.gov/migratorybirds/CCMB2.htm>.

For information about conservation measures that help avoid or minimize impacts to birds, please visit:

<http://www.fws.gov/migratorybirds/CCMB2.htm>.

### **Migratory birds of concern that may be affected by your project:**

There are **15** birds on your Migratory birds of concern list. The underlying data layers used to generate the migratory bird list of concern will continue to be updated regularly as new and better information is obtained. User feedback is one method of identifying any needed improvements. Therefore, users are encouraged to submit comments about any questions regarding species ranges (e.g., a bird on the USFWS BCC list you know does not occur in the specified location appears on the list, or a BCC species that you know does occur there is not appearing on the list). Comments should be sent to [the ECOS Help Desk](#).



## Trust Resources List

Species Name	Bird of Conservation Concern (BCC)	Species Profile	Seasonal Occurrence in Project Area
Bald eagle ( <i>Haliaeetus leucocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Black-billed Cuckoo ( <i>Coccyzus erythrophthalmus</i> )	Yes	<a href="#">species info</a>	Breeding
Blue-winged Warbler ( <i>Vermivora pinus</i> )	Yes	<a href="#">species info</a>	Breeding
Fox Sparrow ( <i>Passerella iliaca</i> )	Yes	<a href="#">species info</a>	Wintering
Golden-Winged Warbler ( <i>Vermivora chrysoptera</i> )	Yes	<a href="#">species info</a>	Breeding
Kentucky Warbler ( <i>Oporornis formosus</i> )	Yes	<a href="#">species info</a>	Breeding
Loggerhead Shrike ( <i>Lanius ludovicianus</i> )	Yes	<a href="#">species info</a>	Year-round
Louisiana Waterthrush ( <i>Parkesia motacilla</i> )	Yes	<a href="#">species info</a>	Breeding
Pied-billed Grebe ( <i>Podilymbus podiceps</i> )	Yes	<a href="#">species info</a>	Year-round
Prairie Warbler ( <i>Dendroica discolor</i> )	Yes	<a href="#">species info</a>	Breeding
Red-headed Woodpecker ( <i>Melanerpes erythrocephalus</i> )	Yes	<a href="#">species info</a>	Year-round
Rusty Blackbird ( <i>Euphagus carolinus</i> )	Yes	<a href="#">species info</a>	Wintering
Wood Thrush ( <i>Hylocichla mustelina</i> )	Yes	<a href="#">species info</a>	Breeding
Worm eating Warbler ( <i>Helmitheros vermivorum</i> )	Yes	<a href="#">species info</a>	Breeding
Yellow-Bellied sapsucker ( <i>sphyrapicus varius</i> )	Yes	<a href="#">species info</a>	Breeding





## Trust Resources List

### ***NWI Wetlands ([USFWS National Wetlands Inventory](#)).***

The U.S. Fish and Wildlife Service is the principal Federal agency that provides information on the extent and status of wetlands in the U.S., via the National Wetlands Inventory Program (NWI). In addition to impacts to wetlands within your immediate project area, wetlands outside of your project area may need to be considered in any evaluation of project impacts, due to the hydrologic nature of wetlands (for example, project activities may affect local hydrology within, and outside of, your immediate project area). It may be helpful to refer to the USFWS National Wetland Inventory website. The designated FWS office can also assist you. Impacts to wetlands and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes. Project Proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate [U.S. Army Corps of Engineers District](#).

### **Data Limitations, Exclusions and Precautions**

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery and/or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

**Exclusions** - Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

**Precautions** - Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the



U.S. Fish and Wildlife Service

## Trust Resources List

advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

*IPaC is unable to display wetland information at this time.*



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**ENVIRONMENTAL SOLUTIONS & INNOVATIONS, INC.**

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4525 Este Avenue  
Cincinnati, OH 45232  
Phone: (513) 451-1777; Fax: (513) 451-3321

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Pesi 593

4 March 2015

Environmental Services Section  
Virginia Department of Game and Inland Fisheries  
P.O. Box 11104  
4010 West Broad Street  
Richmond, VA 23230

**RE: ESSLog 35246; Mountain Valley Pipeline Project extending from Wetzel County, West Virginia to Pittsylvania County, VA**

To whom it concerns,

Mountain Valley Pipeline, LLC (MVP), a joint venture between affiliates of EQT Corporation and a NextEra Energy, Inc., is seeking a Certificate of Public Convenience and Necessity from the Federal Energy Regulatory Commission (FERC) pursuant to Section 7(c) of the Natural Gas Act authorizing it to construct and operate the proposed Mountain Valley Pipeline Project (Project) traversing 17 counties in West Virginia and Virginia. MVP plans to construct an approximately 294.3-mile, 42-inch diameter natural gas pipeline to provide timely, cost-effective access to the growing demand for natural gas for use by local distribution companies, industrial users and power generation in the Mid-Atlantic and southeastern markets, as well as potential markets in the Appalachian region. The pipeline is designed to transport up to 2.0 billion cubic feet per day (Bcf/d) of natural gas.

The Project will extend from the existing Equitrans, L.P. transmission system in Wetzel County, West Virginia to Transcontinental Gas Pipe Line Company, LLC's (Transco) Zone 5 compressor station 165 in Pittsylvania County, Virginia (**Figure 1**). In Virginia, the pipeline route is expected to cross Giles, Montgomery, Roanoke, Franklin, and Pittsylvania counties with potential alternative routes under evaluation in Craig, Montgomery, Roanoke, Franklin, and Pittsylvania counties (**Figure 2**). The Project will require approximately 167 miles of access roads and 509.6 acres of temporary workspace (*i.e.*, laydown yards). Four compressor stations will be constructed along the route as well as measurement, regulation, and other ancillary facilities required for the safe operation of the pipeline.

**[www.ENVSI.com](http://www.ENVSI.com)**

Environmental Solutions & Innovations, Inc. (ESI) completed a *VaFWIS Initial Project Assessment* for the Project's proposed pipeline routes. The 3-mile and 5-mile search radii used during the assessment of these routes included all proposed Project facilities. Federal and state-listed species identified during the VaFWIS assessments are summarized and included at the end of this letter as Appendix A. Google Earth files (.kmz) of the search radii center points are provided as a reference.

On behalf of MVP, ESI respectfully requests an official project review of the proposed Mountain Valley Pipeline by your agency in order to determine likely impacts on fish and wildlife resources and habitats, and to recommend appropriate measures to avoid, reduce, or compensate for those impacts.

MVP anticipates conducting field mist net surveys for endangered bats as well as site assessments and in-water surveys for freshwater mussels. A GIS desktop analysis determined approximately 169 perennial streams will be crossed by the proposed Project in Virginia. On 25 November 2014, Mr. Brian Watson from the Virginia Department of Game and Inland Fisheries (VDGIF), through personal communication with ESI, recommended using a 5-mi<sup>2</sup> drainage threshold for ensuring all potential mussel streams are addressed. ESI will use this threshold when determining which stream crossings require assessments for freshwater mussels. Study plans detailing proposed bat mist net areas and freshwater mussel survey locations are in preparation and will be submitted to the U.S. Fish and Wildlife Service office in Gloucester and VDGIF within a week of the date on this letter.

In closing, we appreciate your time and consideration in reviewing this Project. Please feel free to contact me if you have any questions or need additional Project information. Electronic GIS shapefiles for the Project accompany this letter to assist in your review.

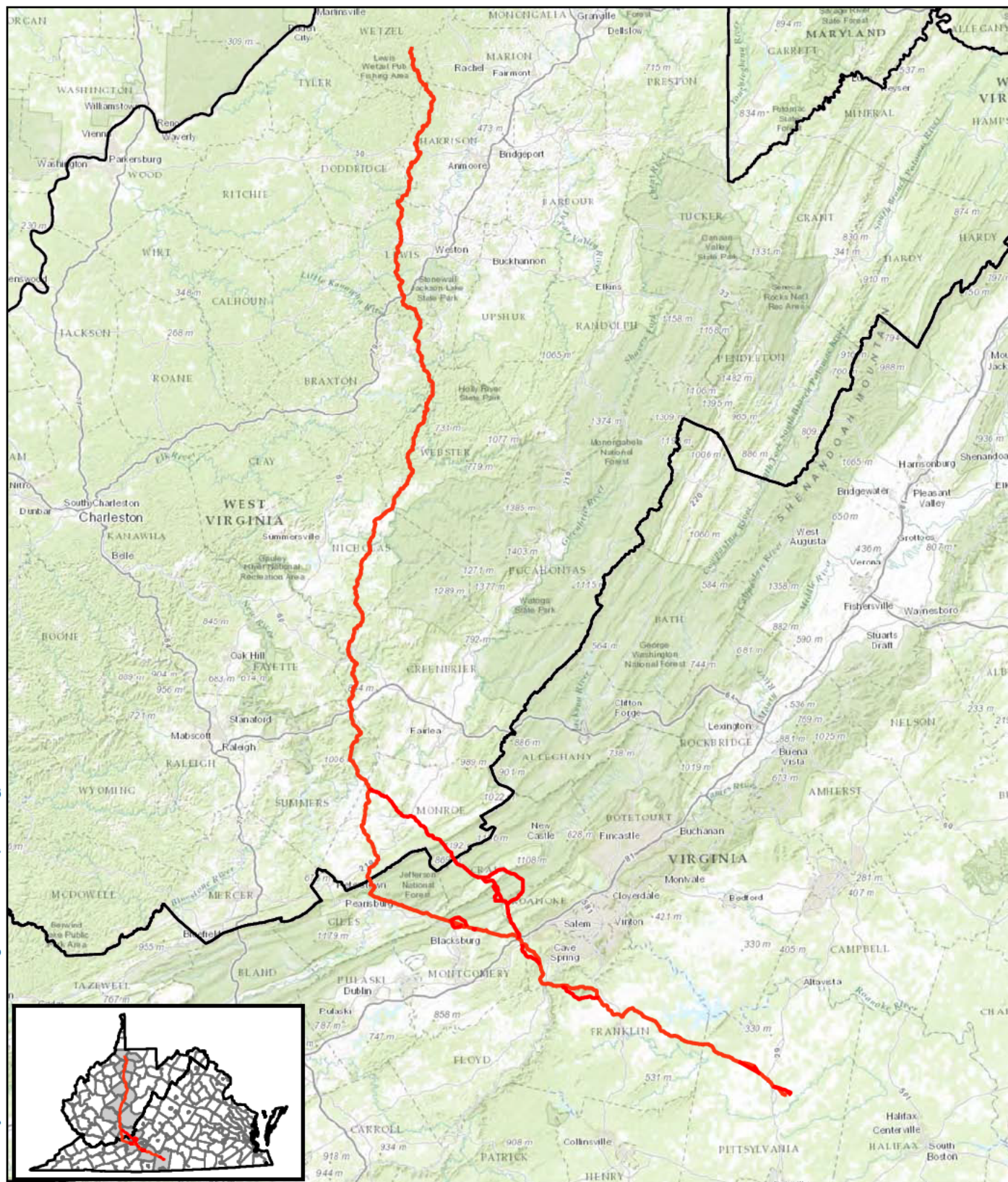
Sincerely,



Valerie Clarkston  
Scientist  
(513) 451-1777  
VClarkston@envsi.com

Enclosures: Project Location Map (Figure 1), Potential Alternative Routes (Figure 2), Appendix A (VaFWIS Initial Project Assessment Results), GIS Project Shapefiles





— MVP Potential Routes (20150302)

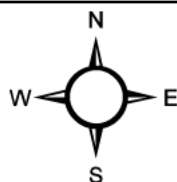


Figure 1. MVP's proposed Mountain Valley Pipeline Project within the Commonwealth of Virginia and State of West Virginia

Project No.  
593

20 0 20 40  
Kilometers



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& INNOVATIONS, INC.



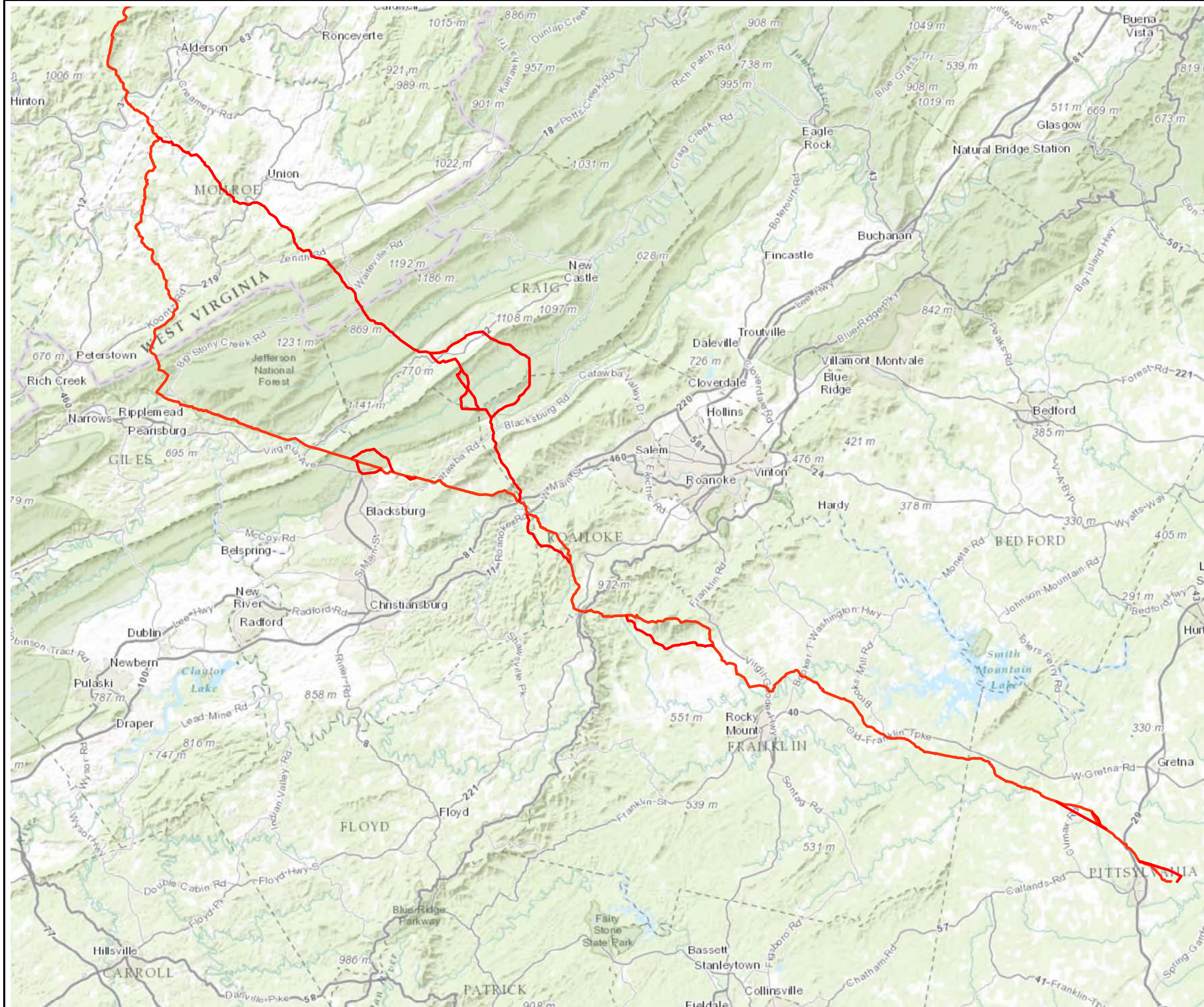
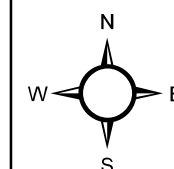
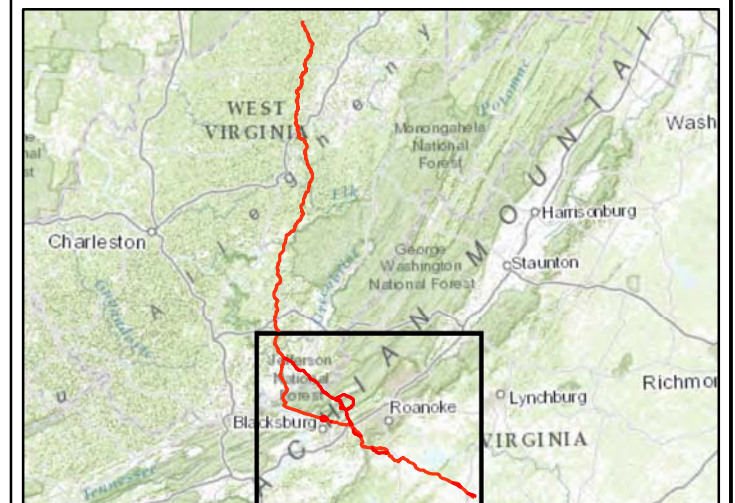


Figure 2. MVP's potential routes for the Proposed Mountain Valley Pipeline Project in Virginia and West Virginia.

— MVP Potential Routes (20150302)



6 0 6 12 Kilometers

Base Map: ESRI ArcGIS Web service - "US TOPO MAPS"  
accessed - 3/4/2015



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Project No. 593



**APPENDIX A**  
**VaFWIS Initial Project Assessment Results**

[illegible]

Invertebrate	Route Search Radius #																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Buffalo Springs																								
Caddisfly	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cave Beetle	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cave Springtail	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diana Fritillary	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	-	-	-	-	-	-	-	-
Ellett Valley																								
Pseudotremia	-	-	-	-	-	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-
Ephemeral Cave																								
Amphipod	-	-	-	-	X	X	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-
Gammon's Stenelmis																								
rifle Beetle	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Henrot's Cave Isopod	-	-	-	-	X	X	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hydropsychid Caddisfly	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
James Cave Amphipod	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laurel Creek																								
Xystodesmid	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-
Microcaddisfly	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Millipede	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mondgomery County																								
Cave Amphipod	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New River Valley Cave																								
Beetle	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Persius Duskywing																								
Butterfly	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	-	-	-	-	-	-	-	-
Regal Fritillary	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	-	-	-	-	-	-	-	-
Spirit Supercoil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X
Spotted Cave Beetle	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tawny Crescent	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vandel's Cave Isopod	-	-	-	-	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Virginia Fringed																								
Mountain Snail	-	-	-	-	-	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-
<b>Amphibian &amp; Reptile</b>																								
Eastern Hellbender	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-
Timber Rattlesnake	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bog Turtle (= Muhlenberg)	-	-	-	-	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Mole Salamander	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X

## Route Search Radius #

Breeding Bird Blocks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Bent Mtn., NW	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bent Mtn., SE	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-
Bent Mtn., SW	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-
Blacksburg, NE	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boones Mill, SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	-	-
Boones Mill, SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-
Check, NW	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-
Eggleston, CE	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-
Eggleston, CW	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Eggleston, NE	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Eggleston, NW	-	X	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Eggleston, SE	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-
Eggleston, SW	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-
Elliston, SE	-	-	-	-	-	-	-	-	-	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-
Garden City, SE	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
Glenvar, SE	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interior, SW	-	X	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ironto, NE	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lindside, SE	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mcdonalds Mill, CE	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mcdonalds Mill, CW	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mcdonalds Mill, SE	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
Mcdonalds Mill, SW	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Moneta SW, SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-
Newport, CE	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-
Newport, CW	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Newport, NE	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Newport, SE	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Newport, SW	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pearisburg, CE	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pearisburg, CW	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pearisburg, NE	X	X	X	X	-	-	-	-	-	-	-	-	-	-	X	X	X	-	-	-	-	-	-	-	-
Pearisburg, NW	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pittsville, SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X
Redwood, SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	-	-	-	-	-
Sandy Level, SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
Spring Garden, CE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X

[illegible]

<b>Mammals</b>	<b>Route Search Point # (2nd series)</b>			
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Indiana bat	X	X	X	X
Northern Long-eared Bat	X	X	X	X
Virginia Northern Flying Squirrel	-	X	X	X
<b>Avian</b>				
Bald Eagle	X	X	X	X
Bewick's wren	X	X	X	X
Henslow's Sparrow	X	X	X	
Loggerhead Shrike	X	X	X	X
Migrant Loggerhead Shrike	X	X	X	X
Peregrine Falcon	-	X	X	X
Upland Sandpiper	X	X	X	X
<b>Aquatic Species</b>				
Atlantic pigtoe	X	X	X	-
Big Sandy Crayfish	-	X	X	X
Bigeye jumprock	-	X	X	X
Bluestone Sculpin	X	X	X	-
Candy Darter	-	X	-	X
Emerald Shiner	X	X	X	-
Green Floater	-	X	X	X
James Spiny mussel	X	X	X	X
Orange-fin madtom	X	X	X	X
Pistolgrip	-	X	X	X
Roanoke Longperch	-	X	X	X
Roughhead Shiner	X	X	X	X
Yellow Lance	X	X	X	-
<b>Invertebrate Species</b>				
Appalachian Grizzled Skipper	X	X	X	X
Arogos Skipper	-	X	X	X
Diana Fritillary	X	X	X	X
Ellett Valley Pseudotremia	-	X	X	X
Ephemeral Cave Amphipod	-	X	X	-
Montgomery County Cave Amphipod	-	-	X	X
Persius Duskywing Butterfly	X	X	X	X
Regal Fritillary	X	X	X	X
Tawny Crescent	X	X	X	-
Vandel's Cave Isopod	-	-	X	X
Virginia Fringed Mountain Snail	-	X	X	X
<b>Amphibian &amp; Reptiles</b>				
Eastern Hellbender	X	X	X	X
Timber Rattlesnake	X	X	X	X
Bog Turtle (= Muhlenberg)	-	-	X	X



<b>Breeding Bird Block</b>	<b>Route Search Point # (2nd series)</b>			
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Craig Springs, SW	X	X	X	-
Craig Springs, CE	-	X	X	-
Craig Springs, SE	-	X	X	-
Glenvar, SE	-	-	-	X
Ironto, NE	-	-	-	X
Looney, SE	-	-	X	-
Mcdonalds Mill, CE	-	-	X	X
Mcdonalds Mill, CW	-	-	X	-
Mcdonalds Mill, SE	-	-	-	X
Waiteville, SE	X	X	-	-
Waiteville, SW	X	-	-	-

<b>Managed Trout Stream</b>				
Big Laurel Branch	X	X	-	-
Dick's Creek	X	X	-	-
Eliber Springs Branch	X	-	-	-
Sinking Creek	-	X	X	-
Craig Creek	-	-	X	-
Mill Creek	-	-	X	-
Pickles Branch	-	-	X	-
Trout Creek	-	-	X	-

<b>Impediments to Fish Passage</b>				
John's Creek Dam #2 - Little Oregon Creek	X	-	-	-
John's Creek Dam #3 - Mudlick Branch	X	-	-	-
John's Creek Dam #2 - Dick's Creek	X	-	-	-
John's Creek Dam #4 - Dick's Creek	-	X	-	-

<b>Threatened &amp; Endangered Waters</b>				
Dick's Creek	X	X	-	-
John's Creek	X	X	-	-
Little Oregon Creek	X	X	-	-
Craig Creek	-	-	X	-
North Fork Roanoke River	-	-	X	X

## Valerie Clarkston

---

**From:** nhreview (DCR) <nhreview@dcr.virginia.gov>  
**Sent:** Thursday, March 05, 2015 11:48 PM  
**To:** Valerie Clarkston  
**Subject:** RE: Environmental Review Services: PF15-3 Mountain Valley Pipeline

Valerie,

We received your request to review the Mountain Valley Pipeline and will respond within 30 calendar days. If we have any questions while conducting the review we will contact you.

Thank you,

Rene'

S. Rene' Hypes  
Project Review Coordinator  
Department of Conservation and Recreation  
Division of Natural Heritage  
600 East Main Street, 24<sup>th</sup> Floor  
Richmond, Virginia 23219  
804-371-2708 (phone)  
804-371-2674 (fax)  
[rene.hypes@dcr.virginia.gov](mailto:rene.hypes@dcr.virginia.gov)



Conserving VA's Biodiversity through  
Inventory, Protection and Stewardship  
[www.dcr.virginia.gov/natural\\_heritage](http://www.dcr.virginia.gov/natural_heritage)  
[Virginia Natural Heritage Program on Facebook](#)

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**From:** Valerie Clarkston [<mailto:VClarkston@envsi.com>]  
**Sent:** Wednesday, March 04, 2015 10:48 AM  
**To:** nhreview (DCR)  
**Cc:** [mneylon@eqt.com](mailto:mneylon@eqt.com); Taina Pankiewicz; Hypes, Rene (DCR)  
**Subject:** Environmental Review Services: PF15-3 Mountain Valley Pipeline

To whom it concerns,

I recently submitted an online *Information Services Order Form* to request environmental review services for the proposed Mountain Valley Pipeline Project (Project reference ID is 15030409525786). With this submission I included a compressed file containing GIS shapefiles of:

- the preferred route centerline (*MVP\_Rev3v22\_20150302*)
- Access roads (*MVP\_AccessRoads\_2-19-15*)
- Compressor Stations (*MVP\_CompressorStations\_20150302*)
- Laydown Yards (*MVP\_LaydownYards\_2-19-15*)
- Proposed Alternative Routes (*MVP\_Alternate\_Routes\_2\_25\_15*)

The online form would not allow me to attach more than one file, and I was therefore unable to attach electronic project maps – they are included as attachments to this email. I requested a 5 business day turnaround for this review, but realize the size of the project may render this request unrealistic. We appreciate your effort in reviewing this project, and we are willing to pay the \$500 surcharge fee for even a 10 business day turnaround time, if possible. If this timeline is still not feasible, a 30 business day turnaround would suffice with prioritization given to the preferred route over proposed alternatives.

After speaking with Rene Hypes, her and I agreed that a 2-mile search corridor (1 mile each side of centerline) along the preferred route and proposed alternatives would allow for minor revisions to occur and yet still be covered under this round of environmental review.

Thank you for your time and consideration in reviewing this project. Please let me know if there is anything else I could provide to help expedite this process. If you have any questions or would like more project-related information, please do not hesitate to contact me.

Thanks,

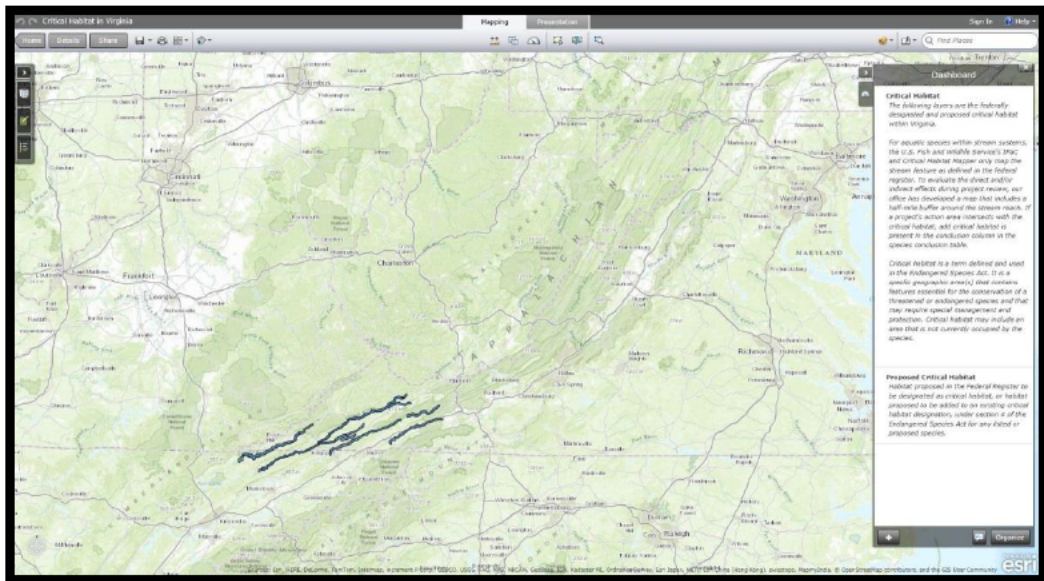
Valerie



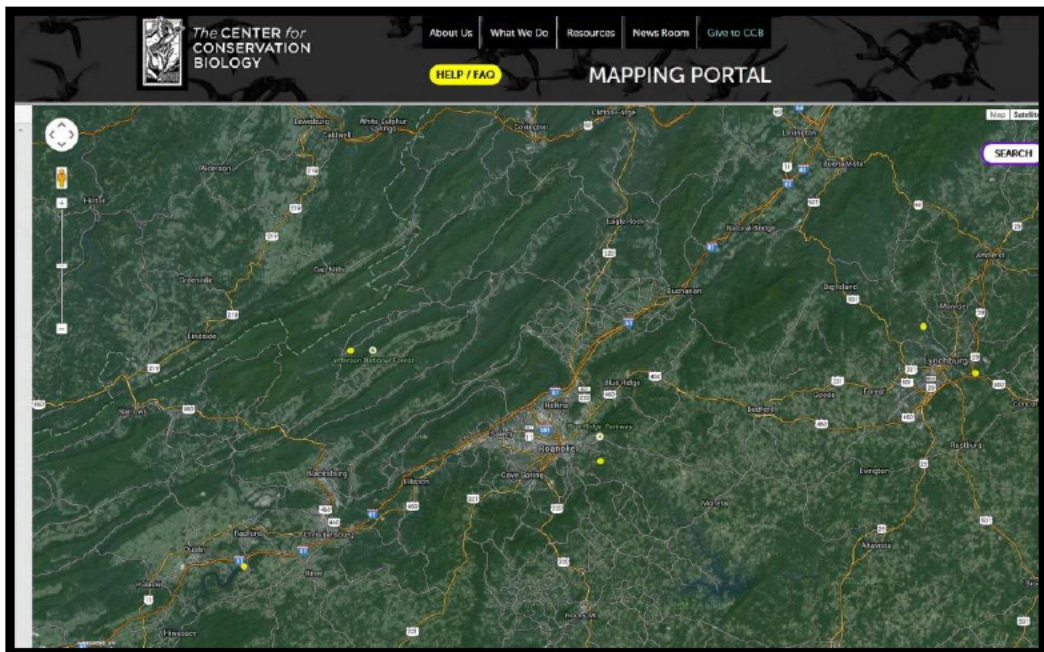
**Valerie Clarkston**

Scientist

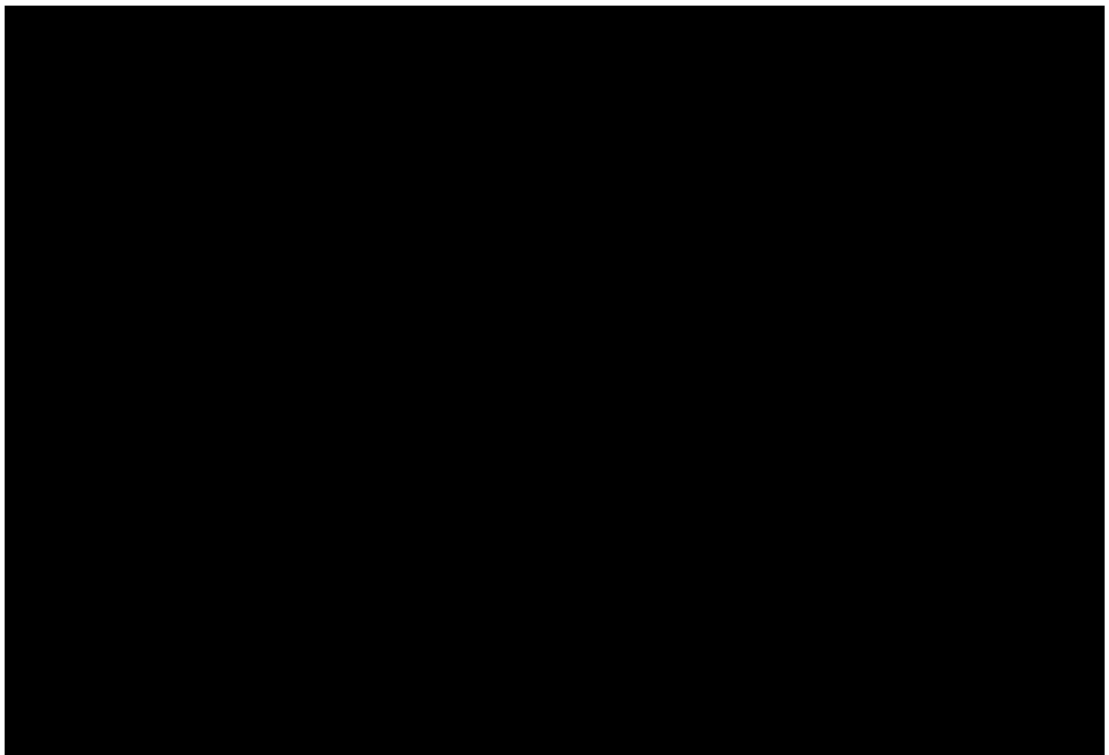
Environmental Solutions & Innovations, Inc.  
4525 Este Avenue | Cincinnati, Ohio 45232 | USA  
**office:** 513.451.1777 **direct:** 513.591.4315  
**fax:** 513.451.3321 **cell:** 513.382.0925  
[vclarkston@envsi.com](mailto:vclarkston@envsi.com) | [www](http://www)



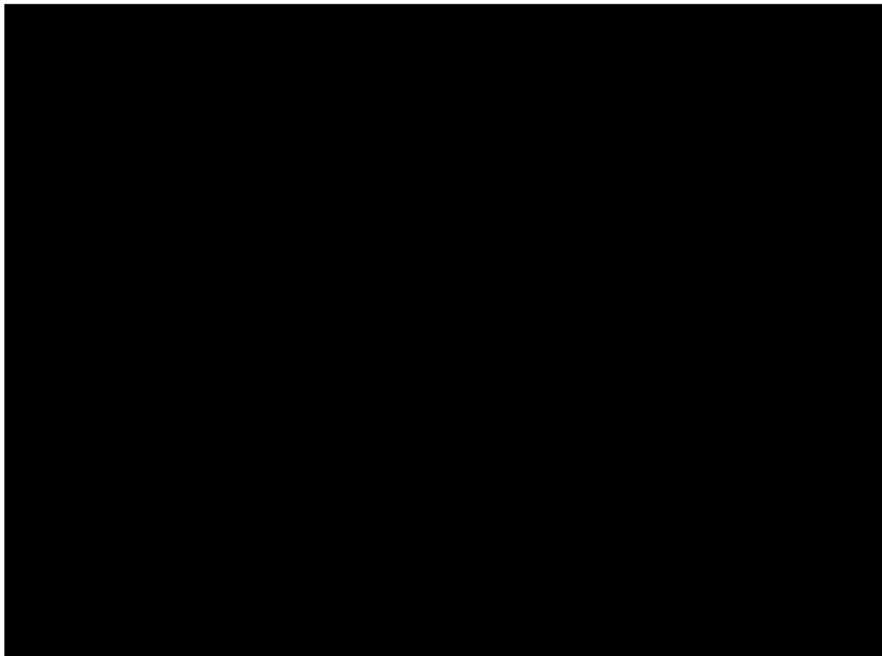
*Step 5. Project does not occur in any VA critical habitat*



*Step 6a. Overview of the Center for Conservation  
Biology VaEagles Nest Locator*



*Eagle Nest CR1301  
~ 3,800 feet from Project*



*Eagle Nest RO1301  
~ 11.5 miles from Project*



*Step 6b. Project does not occur near known Bald  
Eagle  
Concentration Areas*



## Species Conclusions Table

Project Name: Mountain Valley Pipeline

Date: 5 March 2015

Species / Resource Name	Conclusion	ESA Section 7 / Eagle Act Determination	Notes / Documentation
Alewife	Potential habitat present; no current survey conducted	May affect	VDGIF (Va-FWIS) database review
Blueback Herring	Potential habitat present; no current survey conducted	May affect	VDGIF (Va-FWIS) database review
James Spiny mussel	Potential habitat present; no current survey conducted	May affect	VDGIF (Va-FWIS) database review
Roanoke Logperch	Potential habitat present; no current survey conducted	May affect	VADCR Natural Heritage Database VDGIF (Va-FWIS) database review
Northeastern (barbed bristle) bulrush	Potential habitat present; no current survey conducted	May affect	VADCR Natural Heritage Database
Smooth coneflower	Potential habitat present; no current survey conducted	May affect	VADCR Natural Heritage Database
Mitchell's Satyr Butterfly	Potential habitat present; no current survey conducted	May affect	USFWS Species Profile website indicates the Project does not occur in a county with known occurrences
Virginia Fringed Mountain Snail	Project does not occur within its known 6-mile range along New River in Pulaski County	No effect	VDGIF (Va-FWIS) database review VADCR Natural Heritage Database
Indiana bat	Potential habitat present; no current survey conducted	May affect	VDGIF (Va-FWIS) database review VADCR Natural Heritage Database

Species / Resource Name	Conclusion	ESA Section 7 / Eagle Act Determination	Notes / Documentation
Northern long-eared bat	Potential habitat present; no current survey conducted	May affect	VDGIF (Va-FWIS) database review VADCR Natural Heritage Database
Virginia big-eared bat	Potential habitat present; no current survey conducted	May affect	VDGIF (Va-FWIS) database review VADCR Natural Heritage Database
Virginia northern flying squirrel	Potential habitat present; no current survey conducted	-	VDGIF (Va-FWIS) database review identified this as a federally endangered species although it has been delisted
Bald Eagle	Unlikely to disturb nesting bald eagles; Does not intersect with an eagle concentration area	No Eagle Act permit required	USFWS-VA Bald Eagle Map Tool & CCB VaEagles Nest Locator Tool consulted on 05 March 2015
Bog Turtle	Potential habitat present; no current survey conducted	May affect	VDGIF (Va-FWIS) database review
Critical Habitat	No critical habitat present	No effect	Virginia Field Office Critical Habitat Map Tool on 05 March 2015