

part 6

170110183

DEQ Supplement

170110183

BEFORE THE  
STATE CORPORATION COMMISSION  
OF VIRGINIA

APPLICATION OF  
VIRGINIA ELECTRIC AND POWER COMPANY  
FOR APPROVAL AND CERTIFICATION  
OF ELECTRIC FACILITIES

Idylwood Substation Rebuild and Rearrangement of 230 kV  
Transmission Lines #202, #207, #251, #266, #2035, and #2097

Application No. 281

**DEQ Supplement**

Case No. PUR-2017-00002

Table of Contents

	Page
1. Project Description.....	1
2. Environmental Analysis.....	1
A. Air Quality .....	1
B. Water Source.....	1
C. Discharge of Cooling Waters.....	2
D. Tidal and Non-tidal Wetlands.....	2
E. Solid and Hazardous Waste .....	2
F. Natural Heritage, Threatened and Endangered Species.....	3
G. Erosion and Sediment Control .....	3
H. Archaeological, Historic, Scenic, Cultural or Architectural Resources.....	3
I. Chesapeake Bay Preservation Areas.....	4
J. Wildlife Resources.....	4
K. Recreation, Agricultural and Forest Resources .....	4
L. Use of Pesticides and Herbicides.....	5
M. Geology and Mineral Resources.....	5
N. Transportation Infrastructure .....	5
Attachments.....	6

Based upon consultations with the Virginia Department of Environmental Quality (“DEQ”), Virginia Electric and Power Company (“Dominion Virginia Power” or the “Company”) has developed this DEQ Supplement to facilitate review and analysis of the proposed Rebuild Project by DEQ and other relevant agencies.

## 1. Project Description

In order to comply with mandatory North American Electric Reliability Corporation Reliability Standards and PJM Interconnection, L.L.C. reliability standards; to improve operational performance; and to maximize available land use to accommodate potential future transmission terminations and transformation at its existing Idylwood Substation located in Fairfax County, Virginia, Dominion Virginia Power proposes to shift the existing substation footprint within Company-owned property to rebuild and rearrange Idylwood Substation from a straight-bus arrangement to a breaker-and-a-half arrangement using Gas Insulated Substation bus and breakers (the “Idylwood Substation Rebuild Project” or “Rebuild Project”).

## 2. Environmental Analysis

### A. Air Quality

No impacts on air quality are anticipated.

The Rebuild Project will require additional clearing. The Company does not expect to burn cleared material, but if necessary, the Company will coordinate with the responsible permitting authority to obtain the necessary permits and will comply with any conditions set forth by the locality.

The Company will control fugitive dust during construction in accordance with DEQ regulations. During construction, if the weather is dry for an extended period of time, there will be airborne particles from the use of vehicles and equipment. However, vehicle speed, which is often a factor in airborne particulate, will be kept to a minimum. Erosion and sediment control is addressed in Section 2.G below. There will be exhaust from equipment and vehicles that are powered by gasoline or diesel motors used during the construction; however, this is not expected to trigger air quality regulations.

### B. Water Source

No water source is required for transmission lines so this discussion will focus on water bodies that will be crossed by the proposed Rebuild Project.

The existing Idylwood Substation drains to an unnamed tributary to Holmes Run, within the Cameron Run watershed, and then to the Potomac River. Grading and filling for relocation of a portion of the stream channel will allow for construction of the Rebuild Project including the underground stormwater detention facility, and a screening wall. Fairfax County reviewed a floodplain study (number 011353-FP-001-1) prepared by Dewberry Consultants LLC (“Dewberry”) on behalf of Dominion Virginia Power and approved the study on October 16, 2015. See Appendix Attachment III.A. In brief, the study confirmed that a 100-year storm would be contained within the Dominion Virginia Power property. No adjacent

properties or buildings will be adversely impacted, nor will the water surface elevation of the 100-year flood level upstream and downstream be increased.

Any clearing required in the vicinity of streams will be performed by hand within 100 feet of both sides, and vegetation less than three inches in diameter will be left undisturbed.

The Company provided opportunity for Virginia Marine Resources Commission (“VMRC”) to comment on the Rebuild Project via a letter transmitted electronically on October 19, 2016. See Attachment 2.B.1. VMRC responded that based upon the information provided and consultation with a United States Geological Survey topographic mapping of the area, it appears no permit will be required by the VMRC. See Attachment 2.B.2.

**C. Discharge of Cooling Waters**

No discharge of cooling waters is associated with the Rebuild Project.

**D. Tidal and Non-tidal Wetlands**

No tidal wetlands were identified within the proposed Rebuild Project area.

**Wetlands Impact Consultation**

Dewberry performed a wetlands and streams delineation for the Rebuild Project and submitted a joint permit application (“JPA”). The Army Corps of Engineers (“Corps”) determined the Rebuild Project satisfied the criteria contained in the Corps Nationwide Permit 12. The Corps determination letter is included as Attachment 2.D.1. Also attached is further correspondence from the Corps noting there is no time of year restriction (“TOYR”) required for this Rebuild Project, see Attachment 2.D.2.

Dewberry provided an update to the Corps on October 19, 2016. See Attachment 2.D.3. The update was informational in nature, noting additional uplands work. The Company does not anticipate action from the Corps.

**E. Solid and Hazardous Waste**

The Company conducted database searches for solid and hazardous wastes and petroleum release sites in proximity of the proposed Rebuild Project to identify sites that may impact the Rebuild Project. Publicly available data from the Environmental Protection Agency (“EPA”) Facility Registry System was obtained as well as public information from DEQ, both of which provide information about facilities, sites, or places subject to environmental regulation or of environmental interest. The results described here include those sites which fall under the EPA’s hazardous waste, solid waste, remediation, and underground storage tank programs (*i.e.*, Comprehensive Environmental Response, Compensation and Liability Act (“CERCLA”) and Resource, Conservation and Recovery Act (“RCRA”)).

According to these databases, there are no CERCLA or RCRA sites within Falls Church. There was one listed Voluntary Remediation Program site within 2.0 miles of the Rebuild Project. The Company provided an opportunity for DEQ to comment on the Rebuild Project via a letter transmitted electronically on October 19, 2016. See Attachment 2.E.1.

#### **F. Natural Heritage, Threatened and Endangered Species**

On behalf of the Company, and as part of the JPA, Dewberry conducted online database searches for threatened and endangered species in the vicinity of the Rebuild Project, including the U.S. Fish and Wildlife Service (“USFWS”) Information, Planning and Conservation system, the Virginia Department of Game and Inland Fisheries (“DGIF”) Virginia Fish and Wildlife Information Service (“VAFWIS”), the DGIF Northern Long-Eared Bat Winter Habitat and Roost Trees application, the Virginia Department of Conservation and Recreation (“DCR”) Natural Heritage Data Explorer (“NHDE”), and the Center for Conservation Biology (“CCB”) Bald Eagle Nest Locator. The results are included as Attachment 2.F.1.

#### **G. Erosion and Sediment Control**

The Company is required to submit annual Erosion and Sediment Control Specifications to DEQ for review and approval. The Company’s submittal for 2016 likewise follows DEQ guidelines. These specifications are given to the Company’s contractors and require erosion and sediment control measures to be in place before construction of the line begins, and specify the requirements for rehabilitation of the right-of-way. A copy of an e-mail from DEQ documenting the Company’s current approval is provided as Attachment 2.G.1. Grading within the fee simple property is under the purview of Fairfax County (“County”). An erosion and sediment control plan and a stormwater plan will be reviewed and approved by the County prior to land disturbance.

#### **H. Archaeological, Historic, Scenic, Cultural or Architectural Resources**

In accordance and consultation with the *Guidelines for Assessing Impacts of Proposed Electric Transmission Lines and Associated Facilities of Historic Resources in the Commonwealth of Virginia (2008)*, Dutton + Associates, LLC (“Dutton”) prepared on behalf of Dominion Virginia Power a modified Stage I Pre-Application Analysis for the proposed Rebuild Project. This report was forwarded to Virginia Department of Historic Resources (“DHR”) on October 27, 2016, and is included as Attachment 2.H.1. The background archival research identified no National Historic Landmarks within the 1.5-mile buffer; no resources listed on the National Register of Historic Places (“NRHP”) within the 1.0-mile buffer; and one NRHP-eligible resource, the Washington and Old Dominion Railroad (“W&OD RR”) Historic District, within the 0.5-mile buffer. Based upon the characteristics of the Rebuild Project, Dutton opined that the Rebuild Project will have minimal impact on the W&OD RR Historic District and recommends no additional Phase I

architectural and archeological survey is warranted for this Rebuild Project. On December 30, 2016, DHR responded to the modified Stage I Pre-Application Analysis concurring with Dutton's assessment of the Rebuild Project that it would have minimal impact on the Washington & Old Dominion Railroad Historic District and that no further archeological or architectural work is warranted. The letter from DHR is included as Attachment 2.H.2.

#### **I. Chesapeake Bay Preservation Areas**

Construction, installation, operation, and maintenance of electric transmission lines and associated facilities are conditionally exempt from the Chesapeake Bay Preservation Act as stated in the exemption for public utilities, railroads, public roads, and facilities in 9 VAC 25-830-150. Nonetheless, this Rebuild Project does not encroach into any Resources Protection Areas ("RPA"). There is RPA located on the parcel to the south of the substation (parcel 49-2-41); however, the replacement structure on this parcel is not in proximity to the RPA.

#### **J. Wildlife Resources**

Agency databases were reviewed with the USFWS, DGIF, and DCR as well as the CCB to determine if the proposed Rebuild Project has the potential to affect any threatened or endangered species. As discussed in Section 2.F, certain federal and state listed species were identified as potentially occurring in the Rebuild Project area. However, in that the Corps determined the Rebuild Project satisfied the criteria contained in the Corps Nationwide Permit 12, the Rebuild Project has been determined to satisfy the general conditions of Nationwide Permit 12, including general condition 18 pertaining to endangered species and general condition 19 pertaining to migratory birds and Bald and Golden Eagles. The Company provided opportunity for DGIF to comment on the Rebuild Project via a letter transmitted electronically on October 19, 2016. See Attachment 2.J.1. DGIF responded that due to staffing limitations, it is unable to review and provide comments on projects that are not currently involved in one of the regulatory review processes for which it is a formal consulting agency. See Attachment 2.J.2.

#### **K. Recreation, Agricultural and Forest Resources**

The Rebuild Project is expected to have minimal impact on recreational, agricultural, and forest resources because no additional right-of-way is required. The general character of the Rebuild Project area is predominantly densely populated suburban residential area. The Company provided opportunity for DCR, the Department of Forestry, and the Virginia Outdoors Foundation to comment on the Rebuild Project via letters transmitted electronically on October 19, 2016. See Attachments 2.K.1 through 3. DCR's Division of Planning and Recreation responded that they had no comment. See Attachment 2.K.4.

No scenic byways occur within the Rebuild Project vicinity. No designated recreational trails currently exist within the project vicinity.



#### **L. Use of Pesticides and Herbicides**

The Company typically maintains transmission line right-of-way by means of selective, low volume applications of EPA-approved, non-restricted use herbicides. The goal of this method is to exclude tall growing brush species from the right-of-way by establishing early successional plant communities of native grasses, forbs, and low growing woody vegetation. "Selective" application means the Company sprays only the undesirable plant species (as opposed to broadcast applications). "Low volume" application means the Company uses only the volume of herbicide necessary to remove the selected plant species. The mixture of herbicides used varies from one cycle to the next to avoid the development of resistance by the targeted plants. There are four means of dispersal available to the Company, including backpack, fixed nozzle-radiarc, handgun, and aerial. However, very little right-of-way maintenance incorporates aerial equipment. The Company uses licensed contractors to perform this work that are either certified applicators or registered technicians in the Commonwealth of Virginia.

#### **M. Geology and Mineral Resources**

The Company does not anticipate that the proposed Rebuild Project will result in negative impacts to the geology or mineral resources of the Commonwealth in the Rebuild Project area. The Department of Mines, Minerals, and Energy ("DMME") does not perform project reviews on a routine basis, and thus the Company did not solicit DMME for comment on this Rebuild Project. See Attachment 2.M.1.

#### **N. Transportation Infrastructure**

The Company has coordinated with Virginia Department of Transportation ("VDOT") during the Fairfax County legislative reviews and the Company continues its coordination with VDOT in order to obtain final site plan approval from Fairfax County.

Nonetheless, the Company solicited comments from VDOT on October 19, 2016. See Attachment 2.N.1.

The design of the proposed Rebuild Project must prevent interference with pilots' safe ingress and egress at the airport. Such hazard or impediments include interference with navigation and communication equipment and glare from materials and external lights. As indicated in Section III.G of the Appendix, Dominion Virginia Power reviewed the Federal Aviation Administration's website (<https://oeaaa.faa.gov/oeaaa/external/portal.jsp>) to identify airports within 5.0 miles of the demolition and rebuild sites of the Rebuild Project. Based on this review, no airports were identified within 5.0 miles. This Rebuild Project does not meet the requirements for FAA Notice in 14 CFR Part 77.9.

The Company will secure all necessary permits from VDOT prior to construction.

# Attachments

**Dominion Virginia Power**  
701 E. Cary Street, Richmond, VA 23219

Mailing Address: P.O. Box 2666  
Richmond, VA 23261

dom.com



**TRANSMITTED VIA E-MAIL ONLY; NO HARD COPY TO FOLLOW**

October 18, 2016

Virginia Marine Resources Commission  
Attention: Mr. Ben Stagg  
2600 Washington Avenue – 3<sup>rd</sup> Floor  
Newport News, Virginia 23607

**RE: Dominion Virginia Power's Idylwood Substation Rebuild and Rearrangement of 230 kV  
Overhead Electric Transmission Lines, (Falls Church) Fairfax County, Virginia**

Dear Mr. Stagg:

In order to comply with mandatory North American Electric Reliability Corporation Reliability Standards, PJM Interconnection, L.L.C. reliability standards, to maximize existing land at Idylwood Substation Virginia Electric and Power Company ("Dominion") proposes to rebuild and rearrange facilities both within the Idylwood property and within the existing electric transmission right-of-way.

Dominion is interested to know if VMRC has any specific concerns about this Rearrangement Project prior to the Company filing the application with the SCC. To facilitate your review both an existing conditions map is enclosed as well as a map showing the Rearrangement Project.

Dominion respectfully requests your review of this Rearrangement Project. Any comments you may have would be appreciated by close of business on October 28, 2016; your comments can be e-mailed or mailed. Should you have any questions about the project, please call me at (804) 771-6408 or you may contact me at [courtney.r.fisher@dom.com](mailto:courtney.r.fisher@dom.com). DEQ will also be afforded the ability to formally comment on this project once it is submitted to the SCC through the DEQ Coordinated review process.

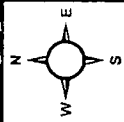
After the SCC makes its final order concerning this project by Dominion, we will comply with all required permitting and take into consideration your comments.

Sincerely,

A handwritten signature in black ink that reads "C. Fisher".

Courtney R. Fisher  
Environmental Consultant

Agency Map - Existing Conditions



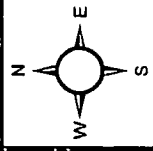
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the U.S. Government  
10/18/2016

**Legend**

- Existing Structures
- Existing Lines/Backbones



# Agency Map-Proposed Conditions

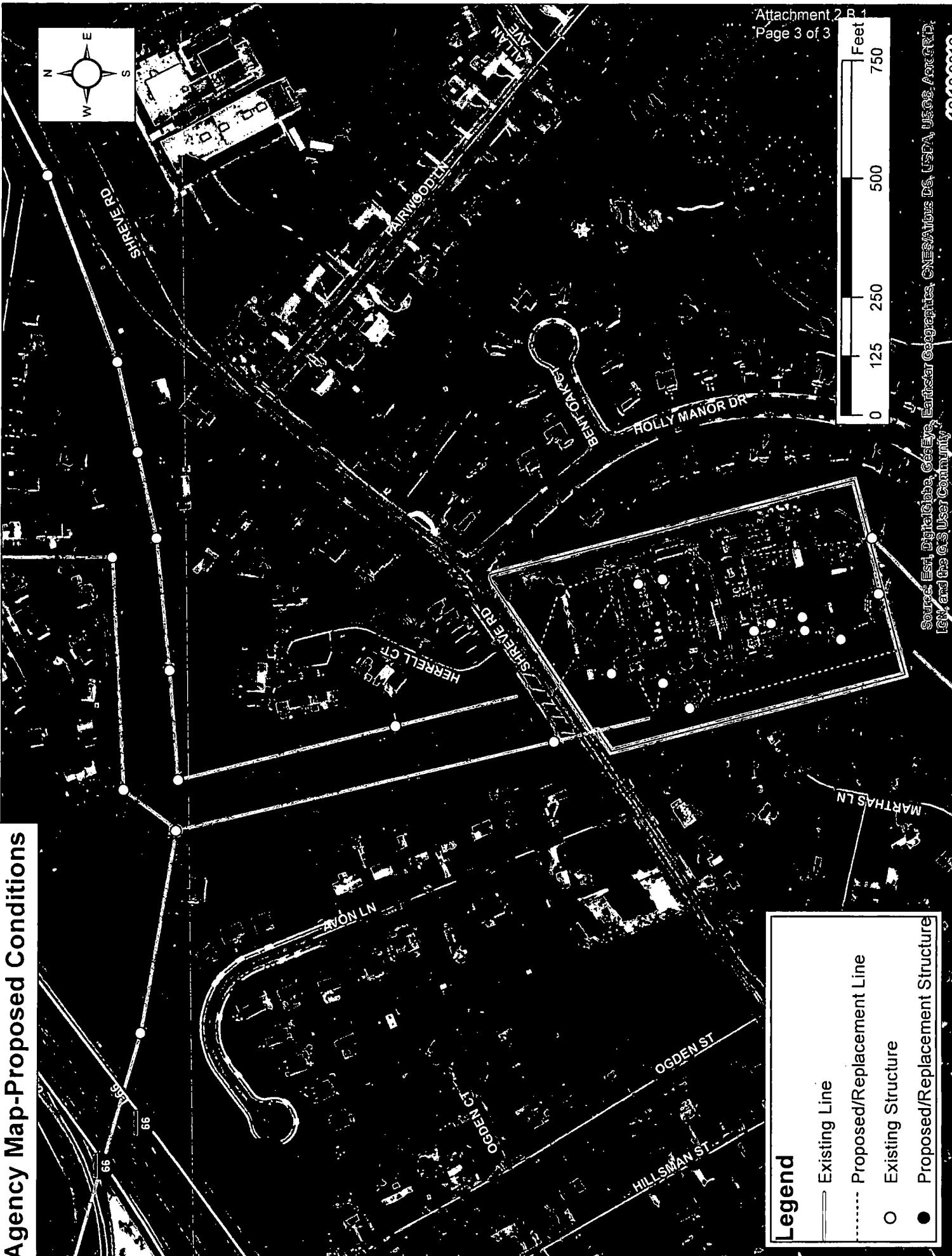


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

10/18/2016

**Legend**

- Existing Line
- Proposed/Replacement Line
- Existing Structure
- Proposed/Replacement Structure



**From:** [Eversole, Mark \(MRC\)](#)  
**To:** [Courtney R Fisher \(Services - 6\)](#)  
**Cc:** [Eversole, Mark \(MRC\)](#)  
**Subject:** [External] FW: Request for agency review  
**Date:** Wednesday, October 19, 2016 2:49:22 PM  
**Attachments:** [VMRC.pdf](#)  
[Agency Existing Cond.pdf](#)  
[IdylwoodAgencymapProposed.pdf](#)

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Courtney, I have reviewed the attachments detailing the work at the Idylwood Substation in Falls Church. Based on a review of the information provided and consulting with USGS topographic mapping of the area, it appears that no permit will be required by the Marine Resources Commission for the proposed work. you should consult with both the DEQ and the Corps to determine if the small intermittent stream to the immediate west of the project will require any permitting action on their part.

Thanks,

Mark

Mark Eversole  
Virginia Marine Resources Commission  
2600 Washington Avenue, 3rd Floor  
Newport News, Virginia 23607  
Office: (757)-247-8028  
email: [mark.eversole@mrc.virginia.gov](mailto:mark.eversole@mrc.virginia.gov)

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**From:** Courtney R Fisher (Services - 6) [<mailto:courtney.r.fisher@dom.com>]  
**Sent:** Wednesday, October 19, 2016 2:14 PM  
**To:** Watkinson, Tony (MRC)  
**Subject:** Request for agency review

Tony-I sent this to Ben, but he must be on vacation; thus I'm sending it to you.

*Courtney*

Courtney R. Fisher//Environmental Consultant//Dominion Virginia Power, Dominion North Carolina Power  
701 E. Cary St.//Richmond, VA 23219//☎ Mobile (804) 380-9335//✉ [courtney.r.fisher@dom.com](mailto:courtney.r.fisher@dom.com)

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20250121



DEPARTMENT OF THE ARMY  
US ARMY CORPS OF ENGINEERS  
NORFOLK DISTRICT  
FORT NORFOLK  
803 FRONT STREET  
NORFOLK VA 23510-1011

April 8, 2016

Northern Virginia Regulatory Section  
NAO-2014-00396 (Idylwood Substation)

Virginia Electric & Power Company  
Dominion Virginia Power  
Attn: Ms. Courtney Fisher  
701 East Cary Street, 12<sup>th</sup> Floor  
Richmond, Virginia 23219

Dear Ms. Fisher:

This is in regard to your Department of the Army permit application number NAO-2014-00396 to permanently impact 0.03 acre of stream channel and temporarily impact 0.02 acre of stream channel for the rebuild and expansion of the existing Idylwood substation facility. The work will include grading and filling for the relocation of a stream channel, construction of an underground stormwater detention facility, temporary construction access, and a retaining and screening wall. The work will occur at 7701 Shreve Road in Falls Church, Virginia, in Fairfax County. These impacts are detailed on the enclosed drawings entitled "Idylwood Substation", prepared and submitted on behalf of the applicant by Dewberry and dated December 2015 (attached).

Your proposed work as outlined above satisfies the criteria contained in the Corps Nationwide Permit (12), attached. The Corps Nationwide Permits were published in the February 21, 2012 Federal Register notice (77 FR 10184) and the regulations governing their use can be found in 33 CFR 330 published in Volume 56, Number 226 of the Federal Register dated November 22, 1991.

This nationwide permit verification is contingent upon the following project specific conditions:

1. Implement a time-of-year (TOY) restriction for no tree clearing from April 15 – September 15 of any year, or
2. If a TOYR (winter tree clearing) is not feasible, then we recommend surveys per the most recent survey guideline:  
<http://www.fws.gov/northeast/virginiafield/pdf/endspecies/2015IndianaBatSummerSurveyGuidelines01April2015.pdf>. Emergent surveys are one type of survey option if there is very limited tree removal, up to 20 trees. One person can observe up to 10 trees at a time. Emergent surveys for potential roost trees do not need to be conducted by a qualified bat surveyor. Follow the most recent emergent survey guidelines in Appendix E at:



<http://www.fws.gov/northeast/virginiafield/pdf/endspecies/2015IndianaBatSummerSurveyGuidelines01April2015.pdf>. If there are more than 20 trees planned to be removed, then the standard mist net or acoustic surveys are recommended. See the survey guidance for details.

3. All temporarily impacted areas shall be restored to their pre-construction contours within 30 days following construction.

Provided the project specific conditions (above) and the Nationwide Permit General Conditions (enclosed) are met, an individual Department of the Army Permit will not be required. In addition, the Virginia Department of Environmental Quality has provided a **conditional** §401 Water Quality Certification for Nationwide Permit Number 12. A permit may be required from the Virginia Marine Resources Commission and/or your local wetlands board, and this verification is not valid until you obtain their approval, if necessary. This authorization does not relieve your responsibility to comply with local requirements pursuant to the Chesapeake Bay Preservation Act (CBPA), nor does it supersede local government authority and responsibilities pursuant to the Act. You should contact your local government before you begin work to find out how the CBPA applies to your project.

Enclosed is a "compliance certification" form, which must be signed and returned within 30 days of completion of the project, including any required mitigation. Your signature on this form certifies that you have completed the work in accordance with the nationwide permit terms and conditions.

This verification is valid until the NWP is modified, reissued, or revoked. All of the existing NWPs are scheduled to be modified, reissued, or revoked prior to March 18, 2017. It is incumbent upon you to remain informed of changes to the NWPs. We will issue a public notice when the NWPs are reissued. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant nationwide permit is modified or revoked, you will have twelve (12) months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this nationwide permit unless discretionary authority has been exercised on a case-by-case basis to modify, suspend, or revoke the authorization in accordance with 33 CFR 330.4(e) and 33 CFR 330.5 (c) or (d). Project specific conditions listed in this letter continue to remain in effect after the NWP verification expires, unless the district engineer removes those conditions. Activities completed under the authorization of an NWP which was in effect at the time the activity was completed continue to be authorized by that NWP.

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If you have any questions and/or concerns about this permit authorization, please contact Ms. Theresita Crockett-Augustine via telephone at (703) 221-9736 or via email at [theresita.m.crockett-augustine@usace.army.mil](mailto:theresita.m.crockett-augustine@usace.army.mil).

Sincerely,



Theresita Crockett-Augustine  
Environmental Scientist  
Northern Virginia Regulatory Section

Enclosures

AUGUSTINE.THERESITA.  
CROCKETT.1230827040

Digitally signed by  
AUGUSTINE.THERESITA.CROCKETT.1230827040  
DN: c=US, o=U.S. Government, ou=DoD, ou=PKI,  
ou=USA,  
cn=AUGUSTINE.THERESITA.CROCKETT.1230827040  
Date: 2016.04.08 12:57:36 -04'00'



U.S. Army Corps  
Of Engineers  
Norfolk District

**CERTIFICATE OF COMPLIANCE  
WITH  
ARMY CORPS OF ENGINEERS PERMIT**

Permit Number: NAO-2014-00396 (Idylwood Substation)

VMRC Number:

Corps Contact: Ms. Theresita Crockett-Augustine

Name of Permittee: Virginia Electric & Power Company

Date of Issuance: April 8, 2016

Permit Type: NWP # 12

**Within 30 days of completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:**

US Army Corps of Engineers - Norfolk District  
Northern Virginia Field Office  
Attn: Ms. Theresita Crockett-Augustine  
18139 Triangle Plaza, Suite 213  
Dumfries, Virginia 22026

Or scan and send via email to [theresita.m.crockett-augustine@usace.army.mil](mailto:theresita.m.crockett-augustine@usace.army.mil)

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification or revocation.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation has been completed in accordance with the permit conditions.

\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Date

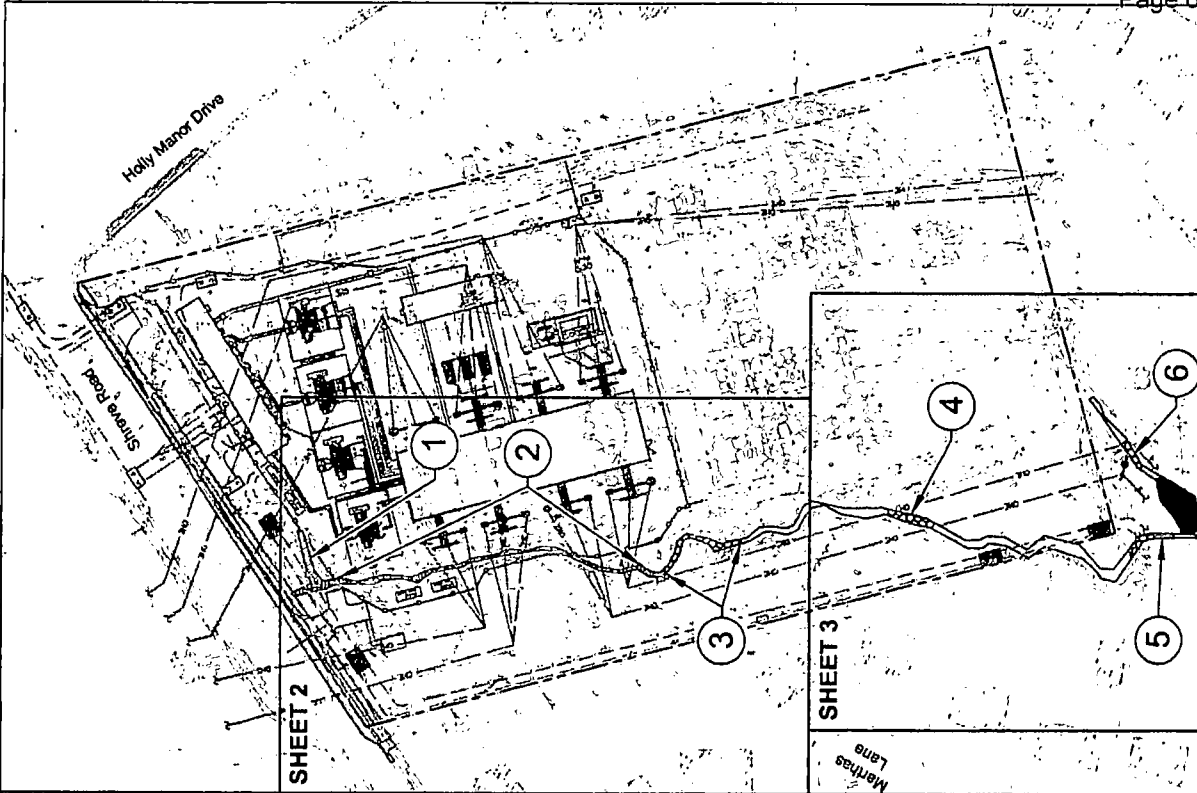


Falls Church USGS Topographic Quad      38° 53' 8.73"N, 77° 12' 34.67"W      HUC 8: 02070010      SCALE: 1" = 2,000'



	DATE	TITLE	SHEET NO.  1 OF 1
	December 2013	Site Topographic Map	
PROJ. NO.	PROJECT		
50058411	Idylwood Substation Expansion Fairfax County, Virginia		

E87011041



**LEGEND**

	Ex. Contours (CI=10)
	WOUS (R4/EPH)
	Palustrine Emergent Wetland (PEM)
	EPH Impact - Permanent
	R4 Impact - Permanent
	R4 Impact - Temporary

**NOTES**

- Existing property boundary, topographic, and planimetric information provided by Dewberry.
- The waters of the U.S. (WOUS), including wetland, boundaries were delineated by Dewberry on January 15, 2015 based on the requirements of the U.S. Army Corps of Engineers (USACE) Wetlands Delineation Manual (Y-87-1) and the Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Eastern Mountains and Piedmont Region (Version 2.0) and represent areas most likely to be jurisdictional by the USACE. These boundaries were verified by the USACE in a Jurisdictional Determination (JD) letter dated March 5, 2014 (NAO-2014-003396).

**SUMMARY OF WATERS OF THE U.S. IMPACTS**

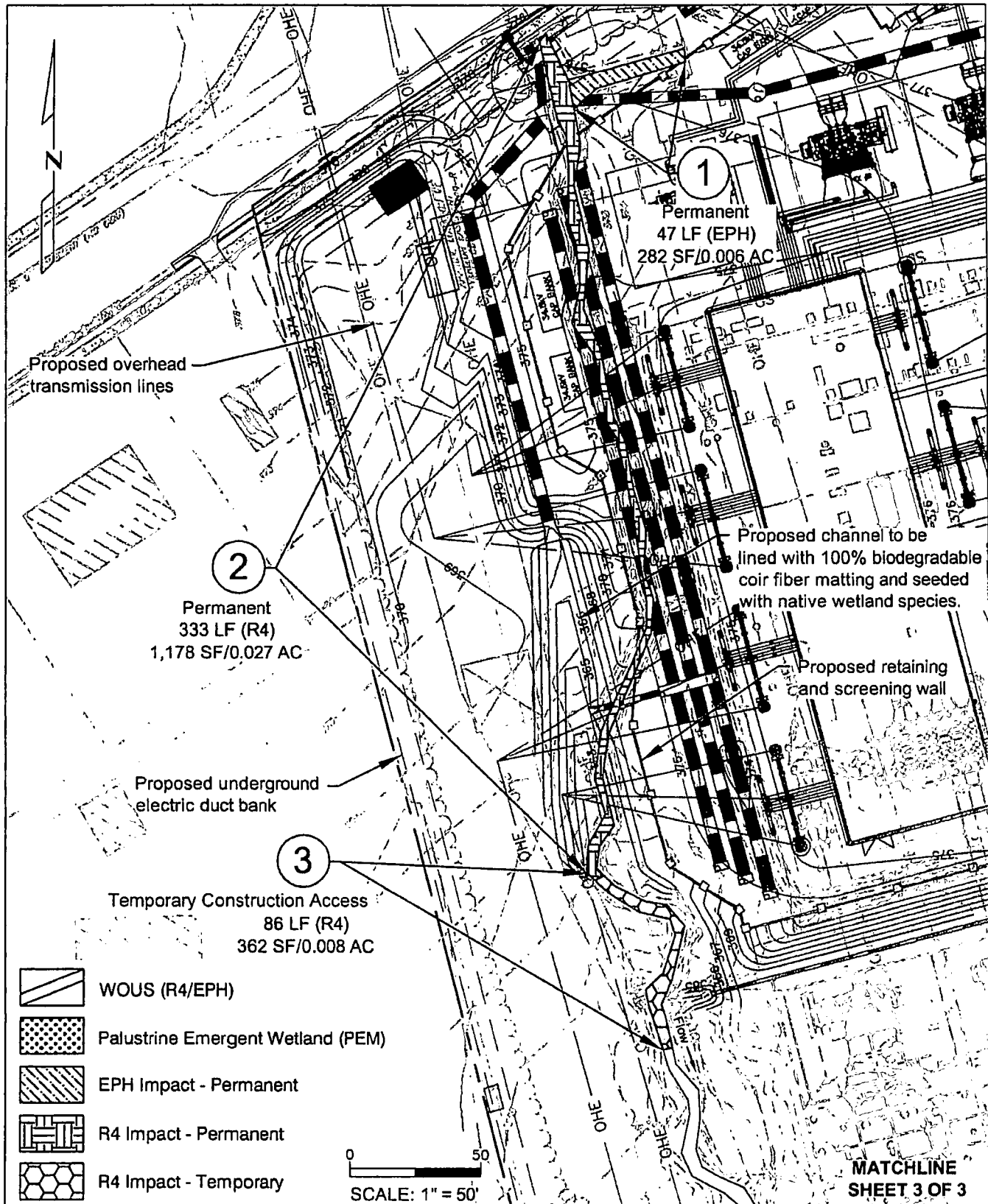
Impact Number	Type	Impact Description	Cowardin Classification	System ID	WOUS Length (ft)	Area (Sq. Ft.)	Area (Acres)
1	P	fishie grading	EPH	AB	47	282	0.006
2	P	fishie grading	R4	A	333	1,178	0.027
3	T	coral access	R4	A	86	362	0.008
4	T	temp stream crossing	R4	A	40	273	0.006
5	T	temp stream crossing	R4	A	43	218	0.005
6	T	fishie grading	EPH	B	25	134	0.003
Permanent					333	1,178	0.027
Total Permanent Stream Impacts					390	1,660	0.034
Temporary					169	853	0.020
Total Temporary Stream Impacts					25	134	0.003
Total Stream Impacts					194	987	0.023
Total Stream Impacts					874	2,447	0.056



**Dewberry®**

DATE	Dec. 2015	TITLE	OVERALL WETLAND AND STREAM IMPACT MAP	SHEET NO.	1 OF 3
PROJ. NO.		PROJECT	IDYLWOOD SUBSTATION		
			FAIRFAX COUNTY, VIRGINIA		

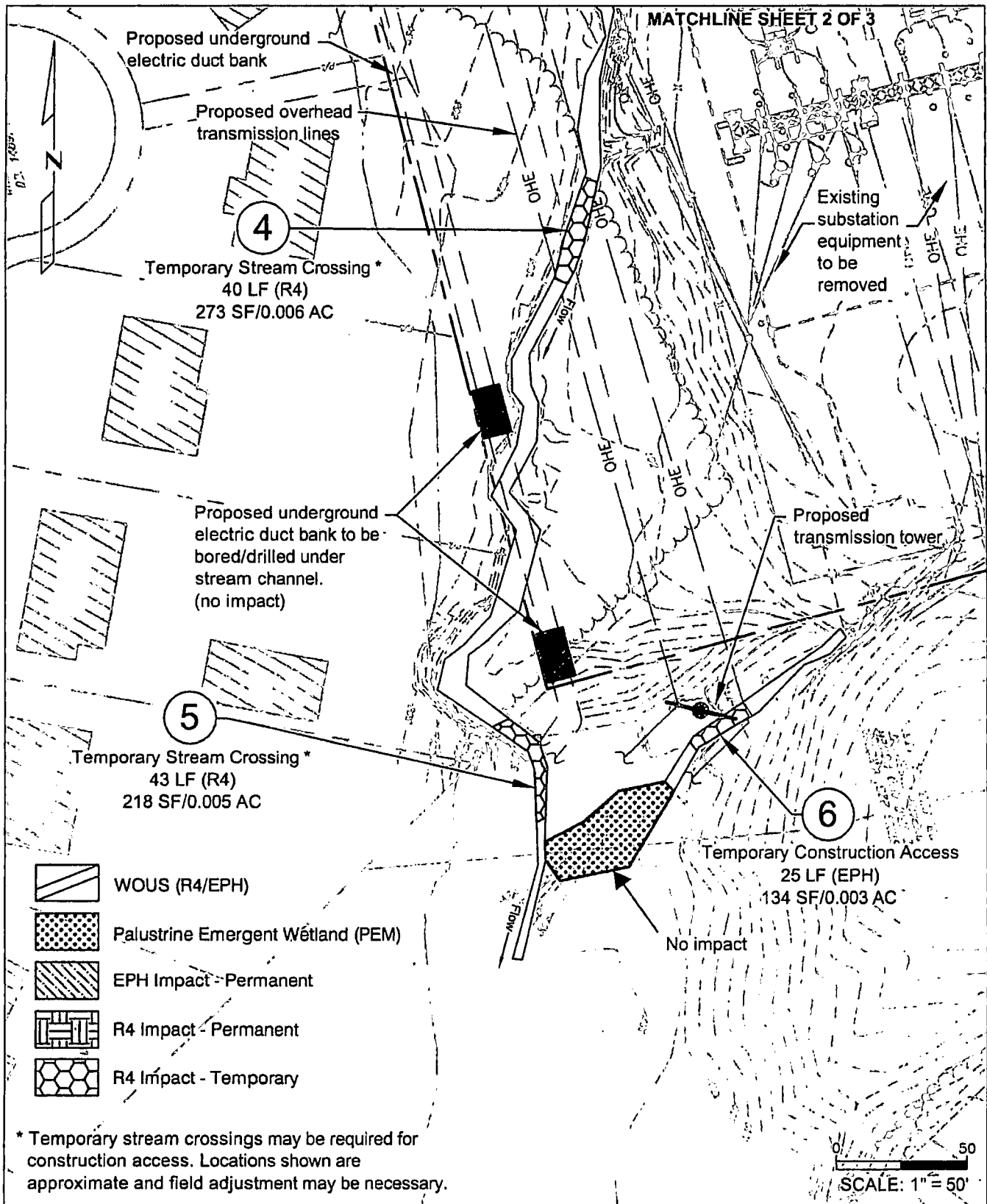
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**Dewberry**<sup>®</sup>

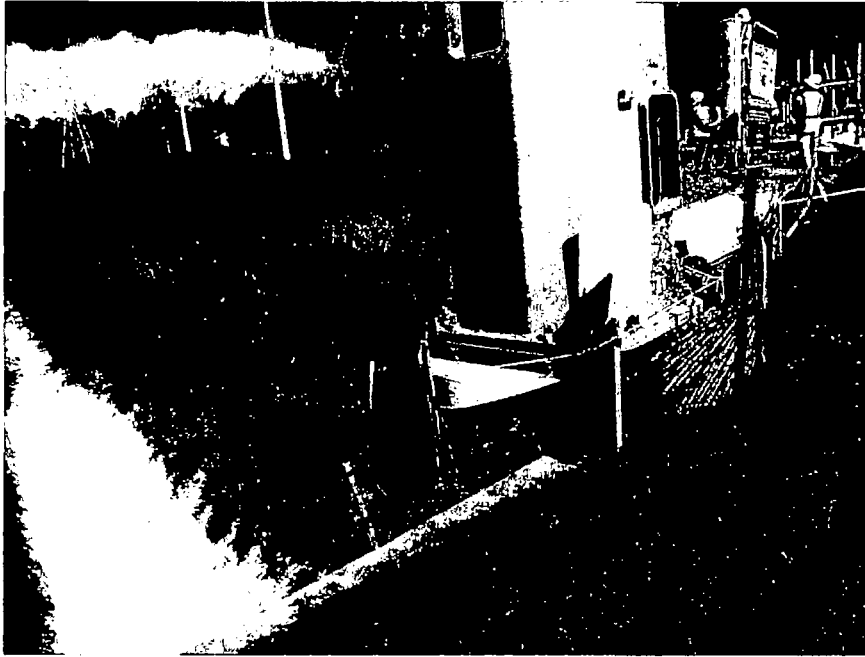
DATE Dec. 2015	TITLE PLAN VIEW PERMIT IMPACT PLATE	SHEET NO.  2 of 3
PROJ. NO.	PROJECT IDYLWOOD SUBSTATION FAIRFAX COUNTY, VIRGINIA	

170110183



**Dewberry®**

DATE Dec. 2015	TITLE PLAN VIEW PERMIT IMPACT PLATE	SHEET NO.  3 of 3
PROJ. NO.	PROJECT IDYLVOOD SUBSTATION FAIRFAX COUNTY, VIRGINIA	



Existing relocated pole associated with Idylwood Substation work.



Approximate Location of  
New Northern Pole



170110183

**From:** [Crockett-Augustine, Theresita M NAO](mailto:Crockett-Augustine.Theresita.M.NAO)  
**To:** [O'Brien, Patrick](mailto:O'Brien.Patrick)  
**Subject:** RE: Idylwood  
**Date:** Tuesday, May 31, 2016 2:09:38 PM

---

Hi Patrick,

You can attach the email to the letter or if you would like a new letter, I can issue a new letter. Thank you.

Terri

-----Original Message-----

From: O'Brien, Patrick [<mailto:pobrien@dewberry.com>]  
Sent: Tuesday, May 31, 2016 2:03 PM  
To: Crockett-Augustine, Theresita M NAO <[Theresita.M.Crockett-Augustine@usace.army.mil](mailto:Theresita.M.Crockett-Augustine@usace.army.mil)>  
Subject: [EXTERNAL] RE: Idylwood

Thanks for the update Terri. Will you be issuing the NWP with the NLEB TOYR removed?

Patrick O'Brien, PWD  
Senior Environmental Scientist  
Dewberry  
8401 Arlington Boulevard  
Fairfax, VA 22031-4666  
703.849.0681  
703.849.0104 FAX  
Blocked[www.dewberry.com](http://www.dewberry.com) <Blocked<http://www.dewberry.com>>

-----Original Message-----

From: Crockett-Augustine, Theresita M NAO [<mailto:Theresita.M.Crockett-Augustine@usace.army.mil>]  
Sent: Friday, May 27, 2016 8:51 AM  
To: O'Brien, Patrick <[pobrien@dewberry.com](mailto:pobrien@dewberry.com)>  
Subject: RE: Idylwood

Hi Patrick,

FWS concurred with our determination. No TOYR is required for this project. If you have any additional questions, please email or call me. Thank you.

Terri

Theresita Crockett-Augustine  
Environmental Scientist  
Norfolk District Corps of Engineers  
Northern Virginia Field Office  
703-221-9736

The Norfolk District is committed to providing the highest level of support to the public. In order for us to better serve you, we would appreciate you completing our Customer Satisfaction Survey located at [Blockedhttp://corpsmapu.usace.army.mil/cm\\_apex/f?p=regulatory\\_survey](http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey). We value your comments and appreciate your taking the time to complete the survey.

20160425

-----Original Message-----

From: O'Brien, Patrick [<mailto:pobrien@Dewberry.com>]  
Sent: Monday, April 25, 2016 9:20 AM  
To: Crockett-Augustine, Theresita M NAO <Theresita.M.Crockett-Augustine@usace.army.mil>  
Subject: [EXTERNAL] RE: Idylwood

Hi Terri,  
Sorry, I've been out of the office the past couple weeks. I wanted to follow up with you about the time of year restriction for NLEB. Has FWS responded to your re-coordination with a time of year restriction? If not, would you be able to reissue the permit without the TOYR?

Thanks!  
Patrick

Patrick O'Brien, PWD  
Senior Environmental Scientist  
Dewberry  
8401 Arlington Boulevard  
Fairfax, VA 22031-4666  
703.849.0681  
703.849.0104 FAX  
BlockedBlockedwww.dewberry.com <BlockedBlockedhttp://www.dewberry.com>

-----Original Message-----

From: Crockett-Augustine, Theresita M NAO [<mailto:Theresita.M.Crockett-Augustine@usace.army.mil>]  
Sent: Friday, April 08, 2016 1:58 PM  
To: O'Brien, Patrick <pobrien@Dewberry.com>  
Subject: Idylwood

Hi Patrick,

Attached is the NWP for the Idylwood Substation project. If you have any questions, please email or call me. Thank you.

Terri

Theresita Crockett-Augustine  
Environmental Scientist  
Norfolk District Corps of Engineers  
Northern Virginia Field Office  
703-221-9736

The Norfolk District is committed to providing the highest level of support to the public. In order for us to better serve you, we would appreciate you completing our Customer Satisfaction Survey located at [BlockedBlockedhttp://corpsmapu.usace.army.mil/cm\\_apex/f?p=regulatory\\_survey](http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey). We value your comments and appreciate your taking the time to complete the survey.

-----Original Message-----

From: O'Brien, Patrick [<mailto:pobrien@Dewberry.com>]  
Sent: Thursday, March 31, 2016 4:17 PM  
To: Crockett-Augustine, Theresita M NAO <Theresita.M.Crockett-Augustine@usace.army.mil>  
Subject: [EXTERNAL] Idylwood

20110128

Terri,

I just wanted to touch base about the Idylwood NWP #12. Has FWS's 30-day review period expired?

Patrick O'Brien, PWD

Senior Environmental Scientist

Dewberry

8401 Arlington Boulevard

Fairfax, VA 22031-4666

703.849.0681

703.849.0104 FAX

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170110183

Dewberry Consultants LLC  
8401 Arlington Boulevard  
Fairfax, VA 22031-4666  
703.849.0100  
703.849.0118 fax  
www.dewberry.com

October 19, 2016

Theresita Crockett-Augustine  
U. S. Army Corps of Engineers  
Norfolk District – Northern Virginia Field Office  
18139 Triangle Plaza, Suite 213  
Dumfries, VA 22026

RE: Dominion Virginia Power – Wetland Delineation for Proposed Pole Locations North of Idylwood Substation

Dear Ms. Crockett,

On October 6, 2016 Dewberry conducted a field review of three proposed pole locations just north of Shreve Road and the existing Idylwood Substation to determine the presence of jurisdictional waters of the U. S. Our investigation of the proposed locations noted that one pole had already been constructed in uplands in conjunction with the recent Idylwood substation improvements, and the remaining two proposed towers are wholly located within uplands.

The most northern pole will be located within an existing easement adjacent to several other poles. The South Pole is also located within an existing easement in an area of maintained lawn.

The northern easement area had no indicators of hydrology in the proposed pole location, and soils were a 10yr 4/4 sandy clay loam with no mottles underlain with gravel at about 4 inches. The vegetation consisted of Canadian Golden Rod (*Solidago canadensis*), Porcelain berry (*Ampelopsis brevipedunculata*), Chinese Bush Clover (*Lespedeza cuneata*), Alleghany Blackberry (*Rubus allegheniensis*). All of these species listed as FACU, except for the Porcelain berry which is not listed as an indicator. The South Pole location was absent of hydrology indicators, with soils the same color and consistency 10yr 4/4, and disturbed stratigraphy likely from prior utility work.

Attached are photographs of the proposed pole locations, and a map of the project area. The map includes a drawing of potential jurisdictional wetland areas near the proposed work areas to assist with avoidance during construction access and laydown activities.

Please review the attached, and let us know if you would like to conduct a field review to confirm the absence of wetlands in the project area. You can reach me at 703-645-9737, or by email at [klarkin@dewberry.com](mailto:klarkin@dewberry.com)

Sincerely,

Kimberly Van Ness Larkin  
Natural Resources Manager

Cc: Courtney Fisher - Dominion

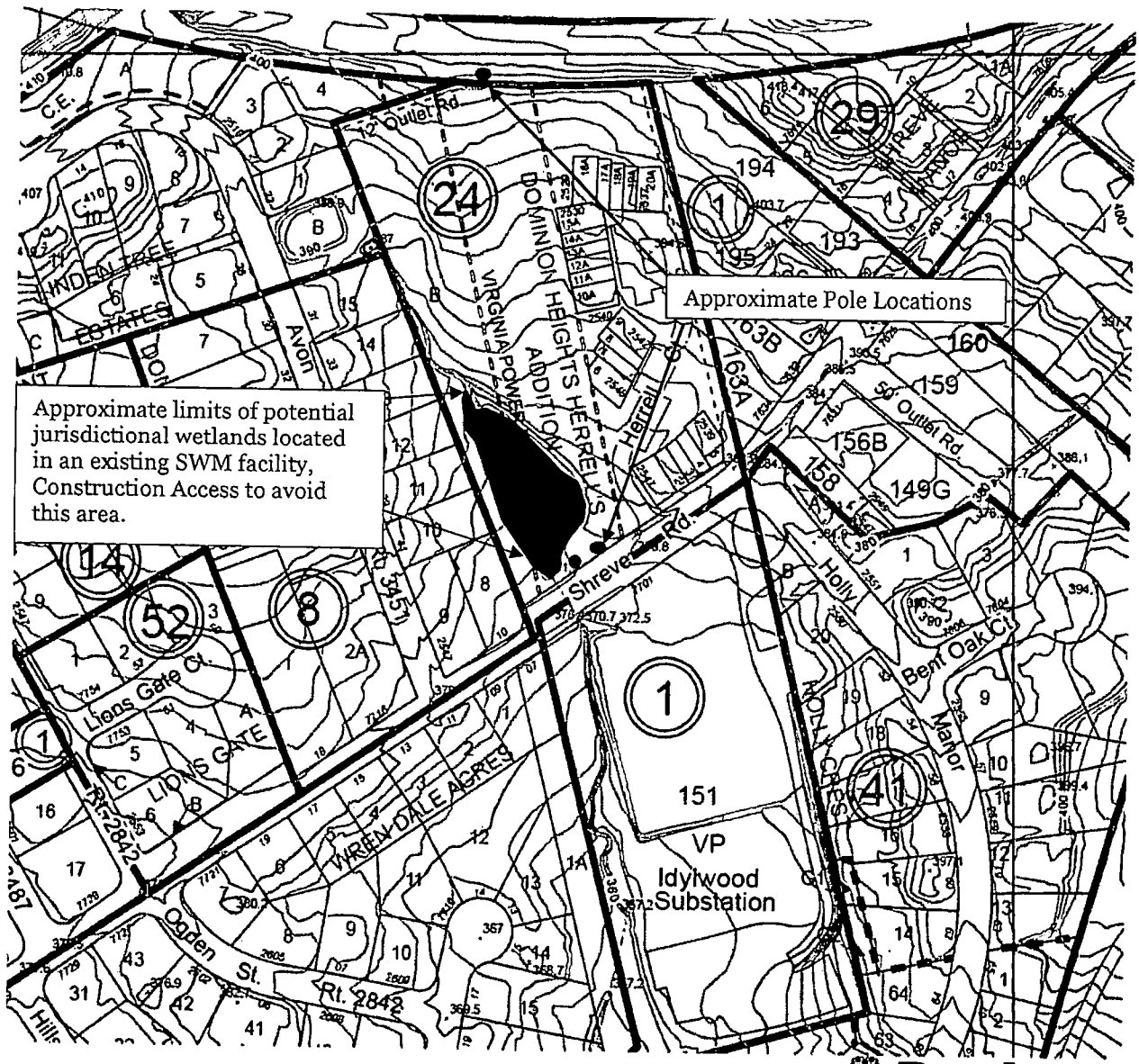
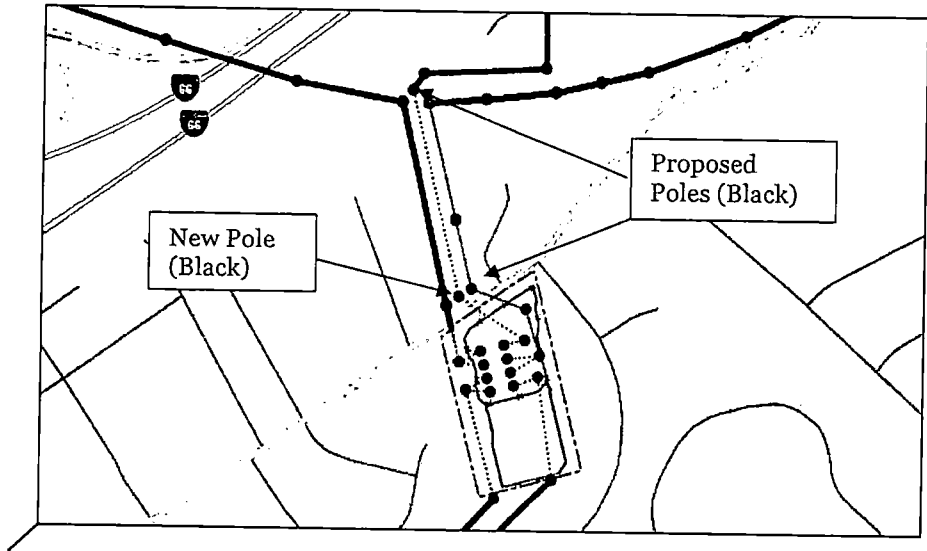
170210183



Vegetation at Northern Pole location



170110183



Approximate limits of potential jurisdictional wetlands located in an existing SWM facility, Construction Access to avoid this area.

Approximate Pole Locations

Dominion Virginia Power  
701 E. Cary Street, Richmond, VA 23219

Mailing Address: P.O. Box 2666  
Richmond, VA 23261

dom.com



**Dominion**

Attachment 2.E.1

170110183

**TRANSMITTED VIA E-MAIL ONLY; NO HARD COPY TO FOLLOW**

October 18, 2016

DEQ

Attention: Ms. Tricia Beasley  
13901 Crown Court  
Woodbridge, VA 22193

**RE: Dominion Virginia Power's Idylwood Substation Rebuild and Rearrangement of 230 kV Overhead Electric Transmission Lines (Falls Church) Fairfax County, Virginia**

Dear Ms. Beasley:

In order to comply with mandatory North American Electric Reliability Corporation Reliability Standards, PJM Interconnection, L.L.C. reliability standards, to maximize existing land at Idylwood Substation Virginia Electric and Power Company ("Dominion") proposes to rebuild and rearrange facilities both within the Idylwood property and within the existing electric transmission right-of-way.

Dominion is interested to know if DEQ has any specific concerns about this Rearrangement Project prior to the Company filing the application with the SCC. To facilitate your review both an existing conditions map is enclosed as well as a map showing the Rearrangement Project.

Dominion respectfully requests your review of this Rearrangement Project. Any comments you may have would be appreciated by close of business on October 28, 2016; your comments can be e-mailed or mailed. Should you have any questions about the project, please call me at (804) 771-6408 or you may contact me at [courtney.r.fisher@dom.com](mailto:courtney.r.fisher@dom.com). DEQ will also be afforded the ability to formally comment on this project once it is submitted to the SCC through the DEQ Coordinated review process.

After the SCC makes its final order concerning this project by Dominion, we will comply with all required permitting and take into consideration your comments.

Sincerely,

Courtney R. Fisher  
Environmental Consultant



Dewberry Consultants LLC  
8401 Arlington Boulevard  
Fairfax, VA 22031

703.849.0100  
703.849.0118 fax  
www.dewberry.com

**From:** Anna Oehser  
Dewberry Consultants LLC  
8401 Arlington Boulevard  
Fairfax, VA 22031  
aoehser@dewberry.com  
703-849-0499 (Direct)

**To:** U.S. Fish and Wildlife Service  
Virginia Field Office  
6669 Short Lane  
Gloucester, Virginia 23061

December 23, 2015

**Re:** Online Project Review Request Letter, Idylwood Substation Expansion, Fairfax County, Virginia

We have reviewed the referenced project using the Virginia Field Office's online project review process and have followed all guidance and instructions in completing the review. We completed our review on December 22, 2015 and are submitting our project review package in accordance with the instructions for further review.

Our proposed action consists of an expansion to the existing Idylwood substation. The proposed expansion to the substation will encompass: tree removal (approximately 0.8 acres) (exhibit enclosed), temporary construction access roads, and a retaining and screening wall near the northwestern corner of the site. Near the western perimeter of the site proposed installations include: additional overhead transmission lines and an underground electric duct bank.

The Idylwood substation is located at 7701 Shreve Road in Falls Church, Virginia. The site is located in an urbanized setting, adjacent to residential cul-de-sacs to the east and west. North of the site is Shreve Road, and to the south is a transmission line easement. The location of the project and the action area are identified on the enclosed USGS 7.5' Quadrant Map, along with project coordinates.

The project is expected to commence in spring 2016 and is expected to be completed by spring 2019.

This project review is needed for a Clean Water Act (CWA) Section 404 permit from the U.S. Army Corps of Engineers (USACE).

The enclosed project review package provides the information about the species, critical habitat, and bald eagles considered in our review, and the species conclusions table included in the package identifies our determinations for the resources that may be affected by the project.

For additional information, please contact Anna Oehser at the address listed above.

Sincerely,  
Dewberry

Anna Oehser  
Environmental Scientist



170119183

USFWS  
Idylwood Substation Expansion  
December 23, 2015

**Enclosures:**

- 1) ENTIRE PROJECT REVIEW PACKAGE
- 2) Tree Removal Exhibit
- 3) Site Photographs

**Species Conclusions Table**

Project Name: Idylwood Substation Expansion

Date: December 22, 2015

Species / Resource Name	Conclusion	ESA Section 7 / Eagle Act Determination	Notes / Documentation
northern long eared bat ( <i>Myotis septentrionalis</i> )	Potential habitat present and no current survey conducted	Not likely to adversely affect	<p>According to a search of the U.S. FWS IPaC database, the northern long-eared bat (<i>Myotis septentrionalis</i>) was identified for the project area. A search of the DGIF VaFWIS did not identify any known occurrences of northern long-eared bat within a 3-mile radius of the project.</p> <p>As shown in the attached package, the project will result in approximately 0.8 acres of tree removal associated with construction of the substation expansion. The forested area comprises a forest fragment surrounded by existing residential development and an electric transmission substation with towers and high voltage overhead lines. A low voltage distribution line bisects the forested area, which has an understory dominated by invasive bamboo.</p> <p>Given the surrounding area of the site is urbanized and the area to be cleared is small and fragmented, potential roosting trees are not likely present within the project limits of disturbance.</p>
Critical Habitat	No critical habitat present	No effect	
Bald Eagle ( <i>Haliaeetus leucocephalus</i> )	Unlikely to disturb nesting bald eagles	No Eagle Act permit required	No nests within 660' and not within a concentration area

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Bald Eagle ( <i>Haliaeetus leucocephalus</i> )	Does not intersect with an eagle concentration area	No Eagle Act permit required	
--	---	------------------------------	--



## United States Department of the Interior

FISH AND WILDLIFE SERVICE  
Virginia Ecological Services Field Office  
6669 SHORT LANE  
GLOUCESTER, VA 23061  
PHONE: (804)693-6694 FAX: (804)693-9032  
URL: [www.fws.gov/northeast/virginiafield/](http://www.fws.gov/northeast/virginiafield/)



Consultation Code: 05E2VA00-2016-SLI-0928

December 22, 2015

Event Code: 05E2VA00-2016-E-01132

Project Name: Idylwood Substation

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

### To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

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

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

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

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

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan ([http://www.fws.gov/windenergy/eagle\\_guidance.html](http://www.fws.gov/windenergy/eagle_guidance.html)). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment

170110183



United States Department of Interior  
Fish and Wildlife Service

Project name: Idylwood Substation

## Official Species List

**Provided by:**

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

**Consultation Code:** 05E2VA00-2016-SLI-0928

**Event Code:** 05E2VA00-2016-E-01132

**Project Type:** DEVELOPMENT

**Project Name:** Idylwood Substation

**Project Description:** Re-build and upgrade of and existing transmission and distribution substation

**Please Note:** The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.

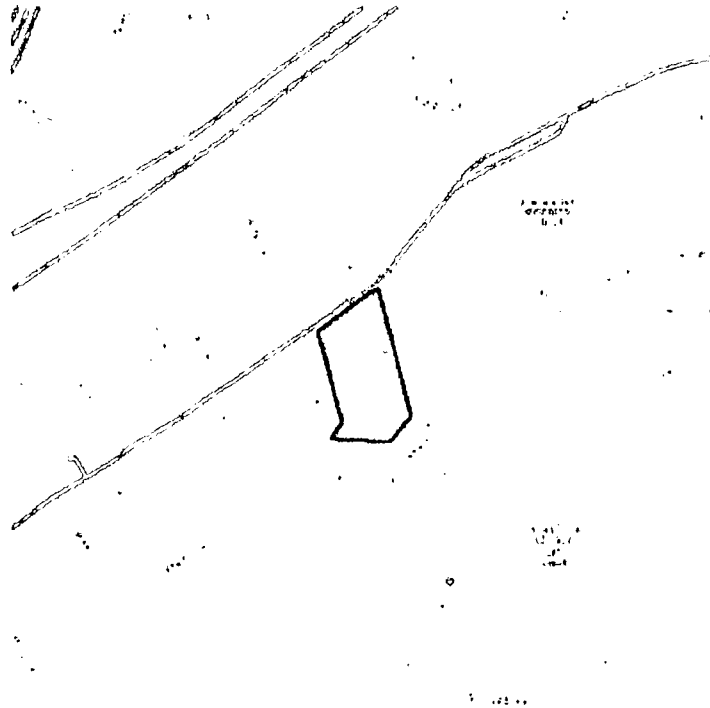
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United States Department of Interior  
Fish and Wildlife Service

Project name: Idylwood Substation

**Project Location Map:**



**Project Coordinates:** MULTIPOLYGON (((-77.21079349519641 38.886384119480944, -  
77.20963716483311 38.887024378613575, -77.20947623229222 38.88707541354354, -  
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77.2105181220104 38.88463126435693, -77.21026539747982 38.88489294275969, -  
77.21079349519641 38.886384119480944)))

**Project Counties:** Fairfax, VA

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United States Department of Interior  
Fish and Wildlife Service

Project name: Idylwood Substation

## Endangered Species Act Species List

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 fish may appear on the species list because a project could affect downstream 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 further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Mammals	Status	Has Critical Habitat	Condition(s)
Northern long-eared Bat ( <i>Myotis septentrionalis</i> )	Threatened		





United States Department of Interior  
Fish and Wildlife Service

Project name: Idylwood Substation

## **Critical habitats that lie within your project area**

There are no critical habitats within your project area.

**VaFWIS Initial Project Assessment Report** Compiled on 12/22/2015, 12:44:52 PM

[Help](#)

Known or likely to occur within a 2 mile radius around point 38,53,08.7 -77,12,34.6  
in 059 Fairfax County, 610 Falls Church City, VA

[View Map of Site Location](#)

697 Known or Likely Species ordered by Status Concern for Conservation  
(displaying first 35) (35 species with Status\* or Tier I\*\* or Tier II\*\*)

<u>BOVA Code</u>	<u>Status*</u>	<u>Tier**</u>	<u>Common Name</u>	<u>Scientific Name</u>	<u>Confirmed</u>	<u>Database(s)</u>
010032	FESE	II	<u>Sturgeon, Atlantic</u>	Acipenser oxyrinchus		BOVA
050022	FT		<u>Bat, northern long-eared</u>	Myotis septentrionalis		BOVA
060006	SE	II	<u>Floater, brook</u>	Alasmidonta varicosa		BOVA
030062	ST	I	<u>Turtle, wood</u>	Glyptemys insculpta	Yes	BOVA,SppObs
040096	ST	I	<u>Falcon, peregrine</u>	Falco peregrinus		BOVA
040129	ST	I	<u>Sandpiper, upland</u>	Bartramia longicauda		BOVA
040293	ST	I	<u>Shrike, loggerhead</u>	Lanius ludovicianus		BOVA
040379	ST	I	<u>Sparrow, Henslow's</u>	Ammodramus henslowii		BOVA
100155	FSST	I	<u>Skipper, Appalachian grizzled</u>	Pyrgus wyandot		BOVA
040292	ST		<u>Shrike, migrant loggerhead</u>	Lanius ludovicianus migrans		BOVA
100248	FS	I	<u>Fritillary, regal</u>	Speyeria idalia idalia		BOVA
040093	FS	II	<u>Eagle, bald</u>	Haliaeetus leucocephalus		BOVA
100154	FS	II	<u>Butterfly, Persius duskywing</u>	Erynnis persius persius		BOVA
060029	FS	III	<u>Lance, yellow</u>	Elliptio lanceolata		BOVA
100013	FS	III	<u>Moth, leaf-mining</u>	Tischeria perplexa		BOVA
010038	FS	IV	<u>Alewife</u>	Alosa pseudoharengus		BOVA
010045	FS		<u>Herring, blueback</u>	Alosa aestivalis		BOVA
080340	FS		<u>Caddisfly, Buffalo Springs</u>	Ceratopsyche etnieri		BOVA
030063	CC	III	<u>Turtle, spotted</u>	Clemmys guttata		BOVA
030012	CC	IV	<u>Rattlesnake, timber</u>	Crotalus horridus		BOVA
010077		I	<u>Shiner, bridle</u>	Notropis bifrenatus		BOVA
040372		I	<u>Crossbill, red</u>	Loxia curvirostra		BOVA
040225		I	<u>Sapsucker, yellow-bellied</u>	Sphyrapicus varius		BOVA
040319		I	<u>Warbler, black-throated green</u>	Setophaga virens		BOVA
040306		I	<u>Warbler, golden-winged</u>	Vermivora chrysoptera		BOVA
040038		II	<u>Bittern, American</u>	Botaurus lentiginosus		BOVA
040052		II	<u>Duck, American black</u>	Anas rubripes		BOVA
040029		II	<u>Heron, little blue</u>	Egretta caerulea caerulea		BOVA

ESTIMATE

040036	II	<u>Night-heron, yellow-crowned</u>	Nyctanassa violacea violacea	BOVA
040213	II	<u>Owl, northern saw-whet</u>	Aegolius acadicus	BOVA
040105	II	<u>Rail, king</u>	Rallus elegans	BOVA
040186	II	<u>Tern, least</u>	Sterna antillarum	BOVA
040320	II	<u>Warbler, cerulean</u>	Setophaga cerulea	BOVA
040304	II	<u>Warbler, Swainson's</u>	Limnothlypis swainsonii	BOVA
040266	II	<u>Wren, winter</u>	Troglodytes troglodytes	BOVA

To view All 697 species [View 697](#)

\* FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FC=Federal Candidate; FS=Federal Species of Concern; CC=Collection Concern

\*\* I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need; III=VA Wildlife Action Plan - Tier III - High Conservation Need; IV=VA Wildlife Action Plan - Tier IV - Moderate Conservation Need

**Bat Colonies or Hibernacula: Not Known**

**Anadromous Fish Use Streams**

N/A

**Colonial Water Bird Survey**

N/A

**Threatened and Endangered Waters**

N/A

**Managed Trout Streams**

N/A

**Bald Eagle Concentration Areas and Roosts**

N/A

**Bald Eagle Nests**

N/A

**Habitat Predicted for Aquatic WAP Tier I & II Species**

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N/A

**Habitat Predicted for Terrestrial WAP Tier I & II Species**

N/A

**Public Holdings:**

N/A

Compiled on 12/22/2015, 12:44:57 PM I698121.0 report=IPA searchType=R dist= 3218 poi= 38,53.08.7 -77,12,34.6  
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TEWaters=0.197479; TierReaches=0.311372; TierTerrestrial=0.194248; Total=22.25903; Tracking\_BOVA=16.826161; Trout=0.172238

17000000

**Site Location**

38,53,08.7 -77,12,34.6

is the Search Point

**Show Position Rings**

Yes  No

1 mile and 1/4 mile at the Search Point

**Show Search Area**

Yes  No

2 Search distance miles radius

Search Point is at map center

**Base Map Choices**

Topography

**Map Overlay Choices**

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

**Map Overlay Legend**

**T & E Waters**

Federal  
 State

**Predicted Habitat WAP Tier I & II**

Aquatic

Terrestrial

**Trout Waters**

Class I - IV

Class V - VI

**Anadromous Fish Reach**

Confirmed

Potential

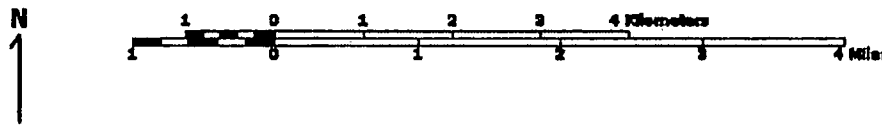
**Impediment**

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

2 mile radius Search Area

Bald Eagle Concentration Areas and Donuts

# Virginia Fish and Wildlife Information Service



Point of Search 38,53,08.7 -77,12,34.6

Map Location 38,53,08.7 -77,12,34.6

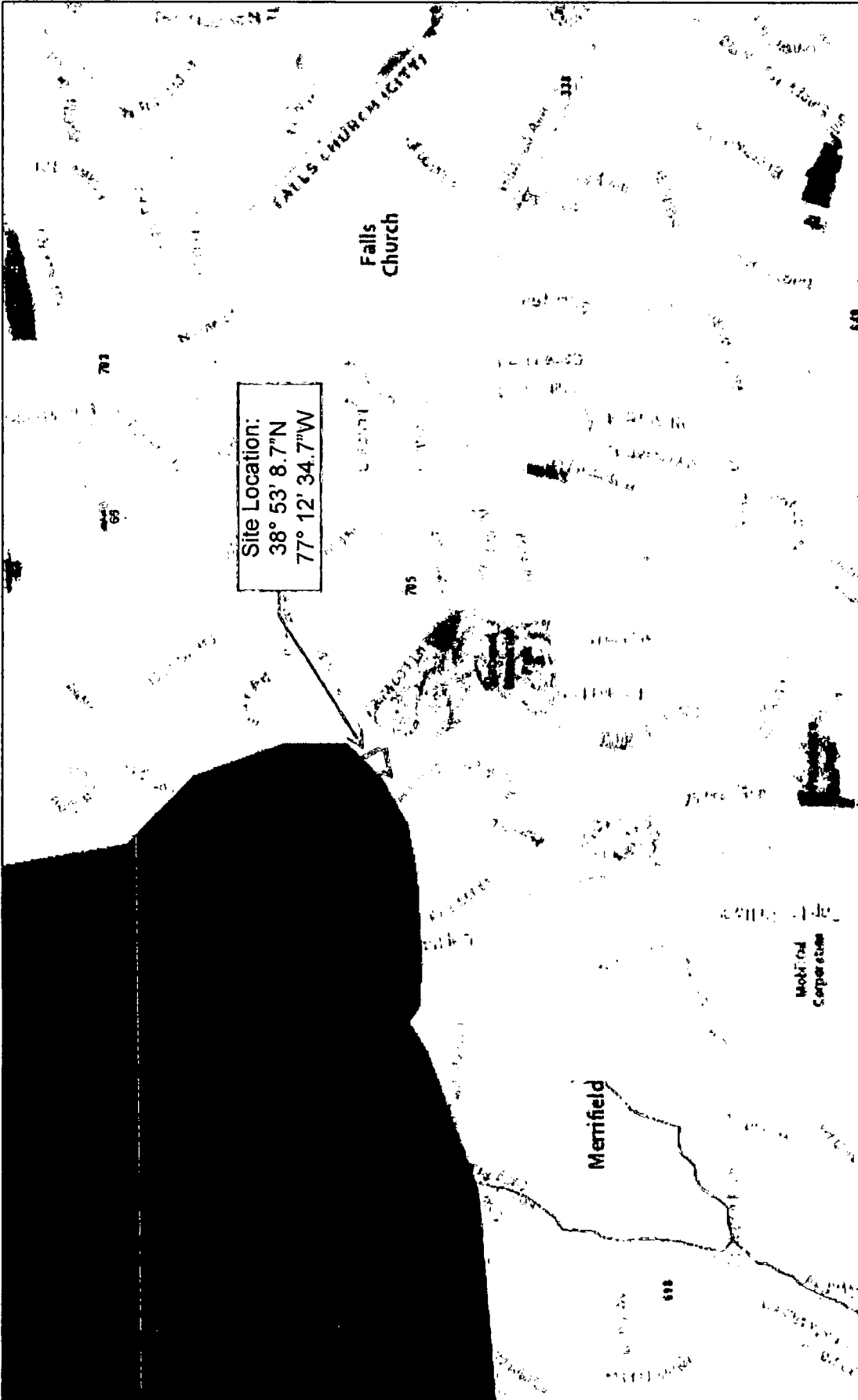
Select Coordinate System:  Degrees, Minutes, Seconds Latitude - Longitude

Decimal Degrees Latitude - Longitude

Meters UTM NAD83 East North Zone

Meters UTM NAD27 East North Zone

DCR Online Mapper: Idylwood Substation



December 22, 2015

Conservation Site

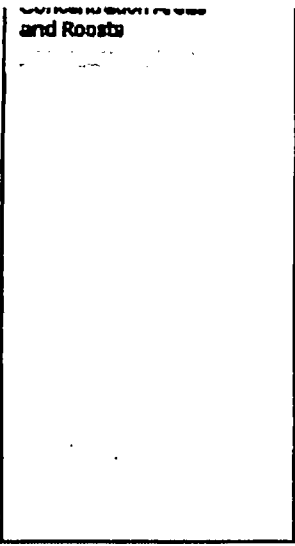
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Content may not reflect National Geographic's current map policy. Sources: National Geographic, Esri, DeLorme, HERE, UNEP-WCMC, USGS, NASA.

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

Map projection is UTM Zone 18 NAD 1983 with left 301950 and top 4312819. Pixel size is 16 meters . Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 800 columns by 800 rows for a total of 640000 pixels. The map display represents 12800 meters east to west by 12800 meters north to south for a total of 163.8 square kilometers. The map display represents 42001 feet east to west by 42001 feet north to south for a total of 63.2 square miles.

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

Shaded topographic maps are from TOPO! ©2006 National Geographic  
http://www.national.geographic.com/topo

All other map products are from the Commonwealth of Virginia Department of Game and Inland Fisheries.

map assembled 2015-12-22 12:46:06 (qa/qc December 5, 2012 8:04 - tn=698122.0 dist=32181)  
\$poi=38.8857500 -77.2096111

[| DGIF | Credits | Disclaimer | Contact shirl.dressler@dgif.virginia.gov | Please view our privacy policy.](#)  
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Submit Query

Douglas W. Domenech  
Secretary of Natural Resources



David A. Johnson  
Director

**COMMONWEALTH of VIRGINIA**  
**DEPARTMENT OF CONSERVATION AND RECREATION**

600 East Main Street, 24<sup>th</sup> Floor  
Richmond, Virginia 23219  
(804) 786-6124

December 19, 2013

Amin Davis  
Dewberry Consultants  
8401 Arlington Blvd.  
Fairfax, VA 22031

Re: 50058411, Idylwood Substation Expansion

Dear Mr. Davis:

The Department of Conservation and Recreation's Division of Natural Heritage (DCR) has searched its Biotics Data System for occurrences of natural heritage resources from the area outlined on the submitted map. Natural heritage resources are defined as the habitat of rare, threatened, or endangered plant and animal species, unique or exemplary natural communities, and significant geologic formations.

Biotics historically documents the presence of natural heritage resources in the project area. However, due to the scope of the activity and the distance to the resources, we do not anticipate that this project will adversely impact these natural heritage resources.

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

There are no State Natural Area Preserves under DCR's jurisdiction in the project vicinity.

New and updated information is continually added to Biotics. Please contact DCR for an update on this natural heritage information if a significant amount of time passes before it is utilized.

A fee of \$60.00 has been assessed for the service of providing this information. Please find enclosed an invoice for that amount. Please return one copy of the invoice along with your remittance made payable to the Treasurer of Virginia, DCR - Division of Natural Heritage, 600 East Main Street, 24<sup>th</sup> Floor, Richmond, VA 23219. Payment is due within thirty days of the invoice date. Please note the change of address for remittance of payment as of July 1, 2013. Late payment may result in the suspension of project review service for future projects.



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The Virginia Department of Game and Inland Fisheries (VDGIF) maintains a database of wildlife locations, including threatened and endangered species, trout streams, and anadromous fish waters that may contain information not documented in this letter. Their database may be accessed from <http://vafwis.org/fwis/> or contact Gladys Cason (804-367-0909 or [Gladys.Cason@dgif.virginia.gov](mailto:Gladys.Cason@dgif.virginia.gov)).

Should you have any questions or concerns, feel free to contact me at (804) 692-0984. Thank you for the opportunity to comment on this project.

Sincerely,

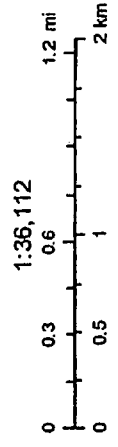


Alli Baird, LA, ASLA  
Coastal Zone Locality Liaison

# Critical Habitat in Virginia



November 30, 2015



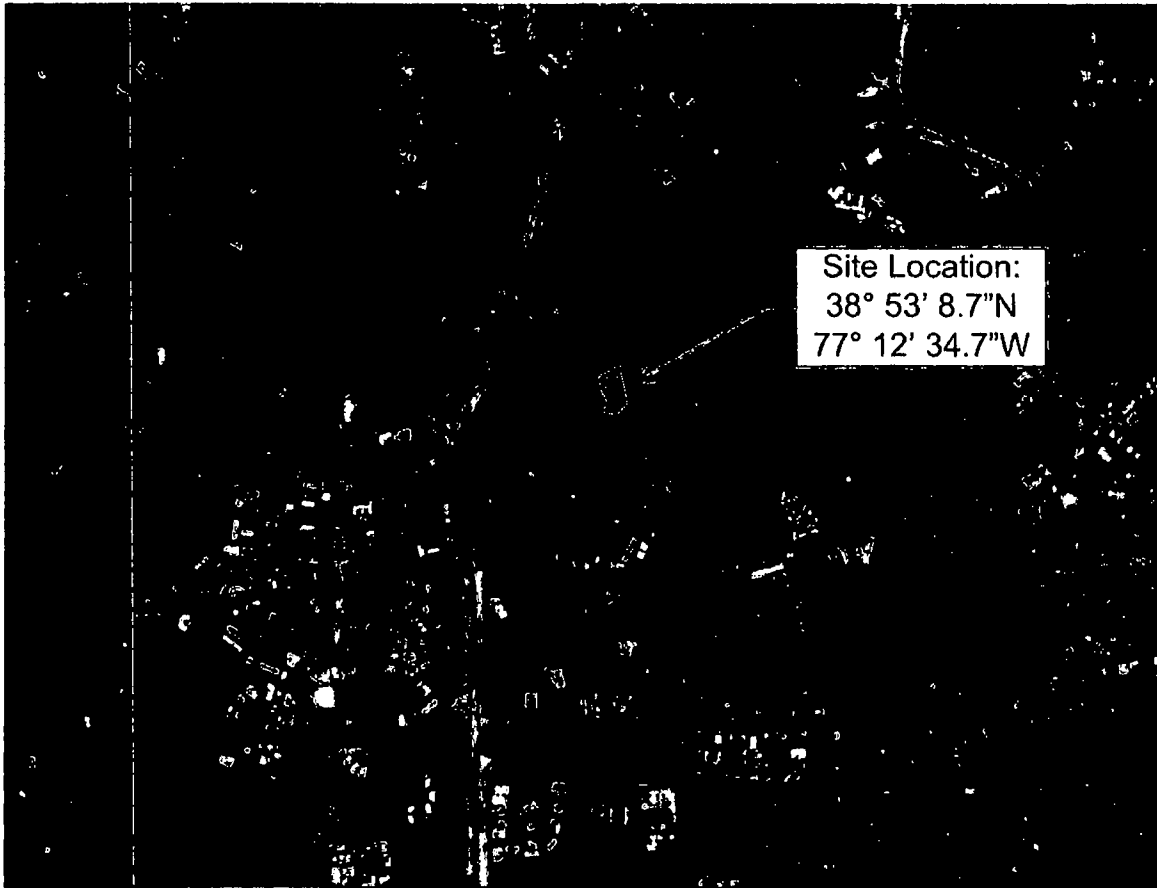
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus  
DS, USDA, USGS, AeroGRID, IGN, IGP, swisstopo, and

ESRI

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## CCB Mapping Portal



**Layers:** VA Eagle Nest Locator

**Map Center [longitude, latitude]:** [-77.20942497253418, 38.88852757306361]

**Map Link:**

[http://www.ccbbirds.org/maps/#layer=VA+Eagle+Nest+Locator&zoom=14&lat=38.88852757306361&lng=-77.20942497253418&legend=legend\\_tab\\_7c321b7e-e523-11e4-a0-0e0c41326911&base=Aerial+Imagery+%28MapQuest%29](http://www.ccbbirds.org/maps/#layer=VA+Eagle+Nest+Locator&zoom=14&lat=38.88852757306361&lng=-77.20942497253418&legend=legend_tab_7c321b7e-e523-11e4-a0-0e0c41326911&base=Aerial+Imagery+%28MapQuest%29)

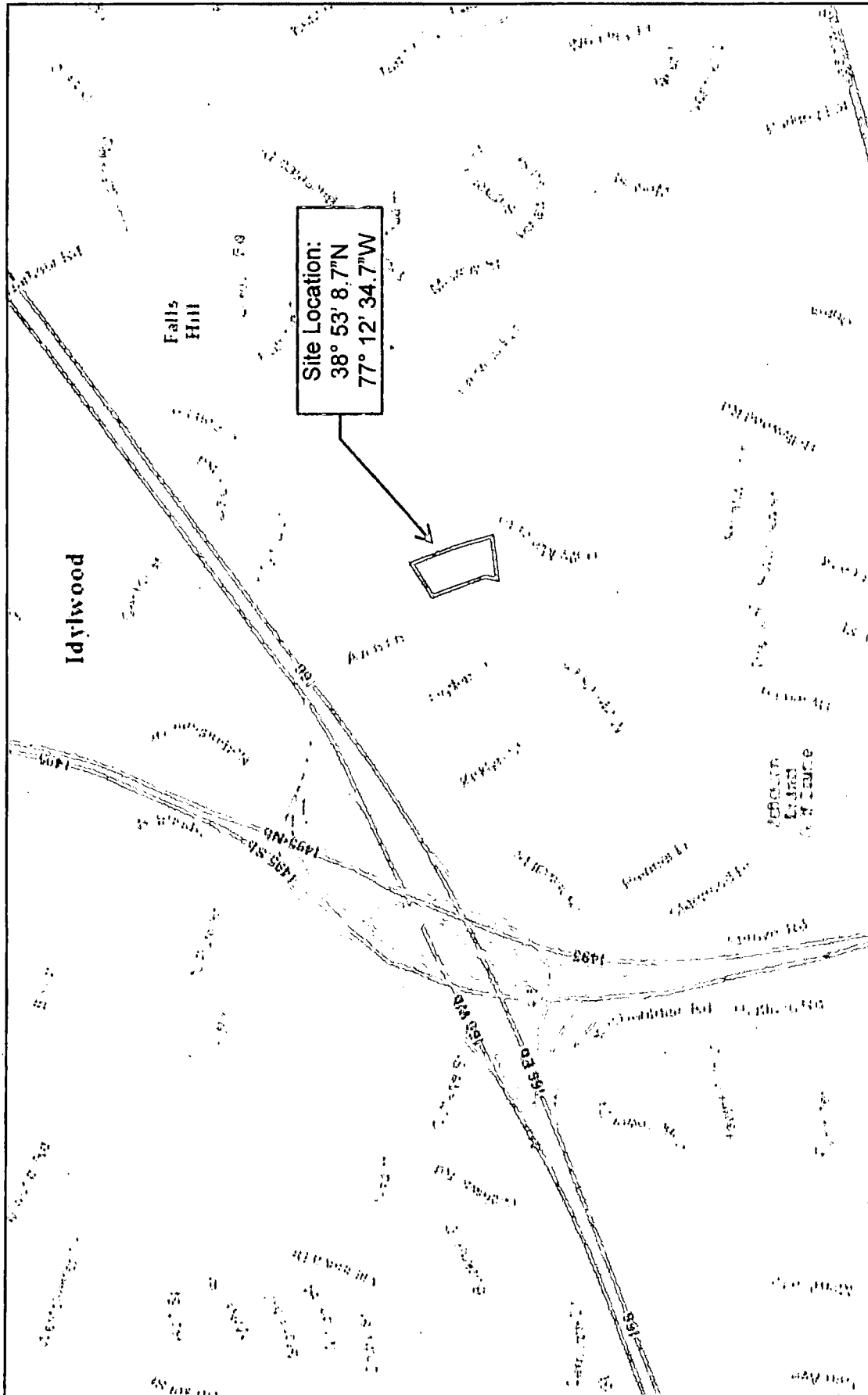
**Report Generated On:** 11/30/2015

The Center for Conservation Biology (CCB) provides certain data online as a free service to the public and the regulatory sector. CCB encourages the use of its data sets in wildlife conservation and management applications. Those data are protected by intellectual property laws. All users are reminded to view the Data Use Agreement to ensure compliance with our data use policies. For additional data access questions, view our [Data Distribution Policy](#), or contact our Data Manager, Mario Pitta, at [mipitta@wm.edu](mailto:mipitta@wm.edu) or 757-221-7503.

Report generated by [The Center for Conservation Biology Mapping Portal](#).

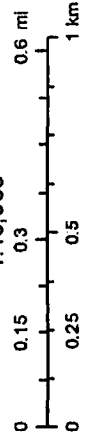
To learn more about CCB visit [ccbbirds.org](http://ccbbirds.org) or contact us at [info@ccbbirds.org](mailto:info@ccbbirds.org)

# VA Bald Eagle Concentration Areas



December 22, 2015

1:18,056



Sources: Esri, HERE, DeLorme, Intermap, InCREMENT P, Corp., GEBCO, USGS, FAO, NPS, NRCAN, GEBCO, IGN, Intermap, Inc., Swire, etc.

ESRI