

Section 3: Project Location (Continued)

10. Name of waterbody at Project Location: Whites Creek waterbody is a tributary to: Indian River Bay
11. Is the waterbody: ☒ Tidal ☐ Non-tidal Waterbody width at mean low or ordinary high water 503 ft (MLW)
12. Is the project: ☒ On public subaqueous lands? ☐ On private subaqueous lands?*
- ☒ In State-regulated wetlands? ☒ In Federally-regulated wetlands?

*If the project is on private subaqueous lands, provide the name of the subaqueous lands owner:

See Attachment 11 for a copy of the Applicant's ROW agreements

(Written permission from the private subaqueous lands owner must be included with this application)

13. Present Zoning: ☐ Agricultural ☒ Residential ☐ Commercial ☐ Industrial ☐ Other

Section 4: Miscellaneous

14. A. List the names and complete mailing addresses of the immediately adjoining property owners on all sides of the project (attach additional sheets as necessary):

See Attachment 10 for a list of Adjacent Property Owners

- B. For wetlands and marina projects, list the names and complete mailing addresses of property owners within a 1,000 foot radius of the project (attach additional sheets as necessary):

See Attachment 10 for a list of Riparian Property Owners

15. Provide the names of DNREC and/or Army Corps of Engineers representatives whom you have discussed the project with:

A. Have you had a State Jurisdictional Determination performed on the property?

☐ Yes ☒ No

B. Has the project been reviewed in a monthly Joint Permit Processing Meeting?

☐ Yes ☒ No

*If yes, what was the date of the meeting? _____

16. Are there existing structures or fill at the project site in subaqueous lands?

☐ Yes ☒ No

*If yes, provide the permit and/or lease number(s): _____

*If no, were structures and/or fill in place prior to 1969?

☐ Yes ☒ No

17. Have you applied for or obtained a Federal permit from the Army Corps of Engineers?

☐ No

☒ Pending

☐ Issued

☐ Denied

Date: _____

Type of Permit: NWP 12

Federal Permit or ID #: _____

18. Have you applied for permits from other Sections within DNREC?

☒ No

☐ Pending

☐ Issued

☐ Denied

Date: _____

Permit or ID #: _____

Type of permit (circle all that apply): ☐ Septic ☐ Well ☐ NPDES ☐ Storm Water

Other: _____



Utility Crossings

Please respond to each question. Questions left blank may result in the application being returned as incomplete. In addition, the answers to all of the questions in this Appendix must correspond accurately to the information on the plan and section view drawings for the project.

1. Please indicate the total number of subaqueous lands crossings associated with the project here:
1 Complete a separate Appendix E for each crossing.
2. The information below is for Crossing # 1.

General Information

3. What type of utility is being installed and what is its diameter?
- | | | |
|--|---|-----------------|
| _____ wastewater pipeline _____ inches | <input checked="" type="checkbox"/> electric line | _____ 16 inches |
| _____ water line _____ inches | _____ TV/cable | _____ inches |
| _____ gas line _____ inches | _____ fiber optic cable | _____ inches |
| _____ other (describe) _____ | | _____ inches |
4. What is the total length of the crossing relative to:
- MHW 524 ft. MLW 503 ft. OHW 564 ft.
5. What is the total area of impact for the crossing relative to:
- MHW 699 sq. ft. MLW 671 sqft. OHW 752 sq. ft.
6. What is the method of installation for the crossing:
- ☒ directional bore _____ trench _____ blasting _____ plow
- If another method of installation will be utilized, please describe here:

7. Briefly outline the construction sequence for placement of the structure:
A pilot hole will be drilled starting on the west side of Whites Creek. Once the drill pipe reaches the east side the hole will be reamed by pulling the pipe and a reamer back from east to west. After the hole is reamed to 16" in diameter a bundle of four 4-inch diameter conduit bundles will be pulled from the east side to the west side. Once the conduit is pulled through the hole the electrical connections will be made on either side of the creek.
8. Will dredging, excavating, or filling be required? _____ Yes ☒ No
If "yes", complete the appropriate dredging appendix and/or fill appendix and include them with your application.



There are no permanent impacts associated with this project. The bore path under Whites Creek measured from the edge of delineated tidal wetlands is 564 linear feet. Therefore, given that the diameter of the bore is 16 inches (1.3 feet), temporary impacts due to the bore traveling below Whites Creek are anticipated to be 752 square feet (0.017 acre). Environmental impact drawings are provided within Attachment 5.

Agency Consultation

Sovereign consulted with the DNREC Division of Fish and Wildlife and the United States Fish and Wildlife Service to determine whether the project will result in adverse impacts to threatened and endangered species. Below is a summary of the responses from each agency; please refer to Attachment 8 for copies of the agency response letters.

DNREC Division of Fish and Wildlife

The DNREC Division of Fish and Wildlife reviewed the proposed project for any potential adverse impacts to rare, threatened or endangered species, unique natural communities and other significant natural resources. According to their review which is documented in their February 28, 2019 response letter, there are no state or federal listed rare, threatened or endangered species present within the project area.

However, DNREC recommends a time of year restriction for in-stream work from March 1st through September 30th to protect species such as Summer Flounder, American Eel and Horseshoe Crabs.

USFWS

According to the USFWS auto-generated species list dated February 20, 2019, there are no federally proposed or listed endangered or threatened species or critical habitat within the project area. However, USFWS notes that there are several species of migratory birds which could be present within the project area.

Sovereign conducted a visual raptor nest survey for bald eagle (*Haliaeetus leucocephalus*) and osprey (*Pandion haliaetus*) nests within the project limits on January 22, 2019. There were no nests identified during the visual survey (see Attachment 7 for details). As such, a biological assessment or further Section 7 Consultation with USFWS is not required.



Written Description of Project

In an effort to maintain and enhance electric service reliability, Delmarva Power & Light (DPL) proposes to install a 25kV electric power distribution feeder (DE0531) under Whites Creek by pulling four (4) four-inch diameter conduits through a sixteen (16) inch diameter cavity through the use of a horizontal directional drill (HDD). Customers in the vicinity of the project are currently served by a radial (i.e. dead end circuit). Therefore, the purpose of the new 25kV line is to create a looped circuit which will allow electric service to feed from multiple directions in the event of an outage.

A bore rig will be setup within upland areas on the west side of the project near Peaceful Lane and conduit will be staged on the east side of the project along Daisey Avenue to be pulled back through the hole created by the drill bit. The HDD design proposes that the conduit will be located at least twenty (20) feet below the bed of Whites Creek.

A bathymetric survey of Whites Creek was performed by KCI Technologies, Inc. (KCI). Data from the KCI survey was utilized to create plan and profile drawings depicting the proposed HDD bore path. It is not anticipated that any excavation or fill within tidal or non-tidal wetlands will occur as a result of this project. All work is planned to occur within upland areas. However, given the proximity of the upland work areas to tidal wetlands and Whites Creek, erosion controls, site stabilization and DPL HDD boring protocols will be utilized as a best management practices to minimize the amount of sediment that could potentially migrate into jurisdictional areas during a storm event. Copies of applicable DPL BMPs are provided within Attachment 9.

The longitude and latitude for the termini of project location are as follows:

Eastern Terminus	75° 05' 40.51"W	38° 33' 15.78"N
Western Terminus	75° 05' 49.96"W	38° 33' 14.05"N

Environmental Impacts

The project area was delineated on January 19, 2019 following the "routine method" outlined in the U.S. Army Corps of Engineers 1987 Wetlands Delineation Manual, as modified by the Corps Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region Version 2.0 (November 2010). A full copy of Sovereign's wetland delineation report is provided within Attachment 6. Within the project limits, one wetland, Wetland A, was identified.

Wetland A is a complex of estuarine emergent (E2EM) and estuarine unconsolidated bottom (E1UBL) wetlands associated with Whites Creek. The creek spans the majority of the project area. Vegetation was limited throughout the wetland and includes smooth cordgrass (*Spartina alterniflora*), and high-tide bush (*Iva frutescens*). The soil is a dark brown sandy loam with depleted matrix (10YR 4/1) and meets the indicator status of F3 (depleted matrix). Signs of hydrology include surface water, geomorphic position, and FAC-Neutral test.





Wetland impacts on this sheet are regulated by both USACE and DNREC



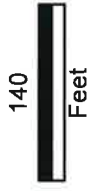
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Temporary Impacts on this Sheet	
	Wetlands (SF)
Boring	675.49
Matting	0.00

2007 Tidal Wetlands Boundary Downloaded From Firstmap@DE and Digitized by Sovereign Consulting Inc.



NAD 1983 UTM Zone 18N



Legend



- 16" Diameter Bore Location
- Delineated Wetlands
- Head of Tide Wetlands 2007

Delmarva Power & Light

Whites Creek Utility Distribution Crossing
Sussex County, Delaware



50 West Welsh Pool Road, Suite 6
Exton, PA 19341
P: 610-524-8124

Date: 3/08/2019 Impact Exhibit





Legend

— 16" Diameter Bore Location

NAD 1983 UTM Zone 18N
870

Feet

N
W E
S

 SOVEREIGN CONSULTING INC.

50 West Welsh Pool Road, Suite 6
Exton, Pennsylvania 19341
(610) 524-8124 (610) 524-8129

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**Figure 4 - DE Wetland Tile Exhibit
Tile DNR042**

Delmarva Power & Light
Whites Creek Utility Distribution Crossing
Sussex County, Delaware

Date: 3/08/2019

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