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| INSTRUCTIONS: Section I to be completed by Proponent; Sections II and III t<br>as necessary. Reference appropriate item number(s).  | o be completed by Environmental Planning Function. Conti                                       | nue on | separ             | ate she | ets |
| SECTION I - PROPONENT INFORMATION   |  |        |                   |         |     |
| 1. TO (Environmental Planning Function) 2. FROM (I  | Proponent organization and functional address symbol)  | 2a. T  | ELEPH             | HONE    | NO. |
| 733 CED/Environmental Element Old Domi  | nion Utility Service   | 757-   | 888-              | 0485    |     |
| 3. TITLE OF PROPOSED ACTION<br>Alternate Wate Line Supply System and Booster Station  |  |        |                   |         |     |
| 4. PURPOSE AND NEED FOR ACTION (Identify decision to be made and nee  | d dale)  |        |                   | ·····   |     |
| Previous water outages due to water main break and maintenance connection.  | e of Newport News waterline requiring a second   | ary w  | ater              |         |     |
| 5. DESCRIPTION OF PROPOSED ACTION AND ALTERNATIVES (DOPAA) (P   |  |        |                   |         |     |
| See attached Environmental Assessment/Finding of No Signific  | ant Impact.  |        |                   |         |     |
| 6. PROPONENT APPROVAL (Name and Grade) 6a. SIGNAT   | URE O C I  | 6b. D  | ATE               | ·       |     |
| JEFF KAPINOS  | fly P. Kapins  |        | 2013              | 0606    |     |
| SECTION II - PRELIMINARY ENVIRONMENTAL SURVEY. (Check appl<br>Including cumulative effects.) (+ = positive effect; 0 = no effect; - | opriate box and describe potential environmental effects<br>adverse effect; U= unknown effect) | +      | 0                 | -       | U   |
| 7. AIR INSTALLATION COMPATIBLE USE ZONE/LAND USE (Noise, accident   | potential, encroachment, etc.)   |        | $\square$         |         |     |
| 8. AIR QUALITY (Emissions, attainment status, state implementation plan, etc.,  |  |        |                   |         |     |
| 9. WATER RESOURCES (Quality, quantity, source, etc.)  |  |        | $\mathbf{\nabla}$ |         |     |
| SAFETY AND OCCUPATIONAL HEALTH (Asbestos/radiation/chemical exp<br>aircraft hazard, etc.)   | osure, explosives safety quantity-distance, birdAviidlife                                      |        | $\square$         |         |     |
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| 13. CULTURAL RESOURCES (Native American burial sites, archaeological, h   | storical, etc.)  |        |                   |         |     |
| 14. GEOLOGY AND SOILS (Topography, minerals, geothermal, Installation Re-   | storation Program, selsmicity, etc.)   |        |                   |         |     |
| 15. SOCIOECONOMIC (Employment/population projections, school and local fi   | scal impacts, etc.)  |        | $\square$         |         |     |
| 16. OTHER (Potential impacts not addressed above.)  |  |        | $\square$         |         |     |
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| 17. □ PROPOSED ACTION QUALIFIES FOR CATEGORICAL EXCLUSION<br>✓ PROPOSED ACTION DOES NOT QUALIFY FOR A CATEX; FURTHE                 |  |        |                   |         | -   |
| 18. REMARKS<br>An Environmental Assessment was prepared with a resulting Fin  |  |        |                   |         |     |
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| 19. ENVIRONMENTAL PLANNING FUNCTION CERTIFICATION 19a. SIGNA (Name and Grade)   |  | 19b. I | DATE              |         |     |
| TIMOTHY P. CHRISTENSEN  | AUD. M   |        | 2013              | 0606    |     |

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| maintaining the data needed, and c<br>including suggestions for reducing  | lection of information is estimated to<br>completing and reviewing the collect<br>this burden, to Washington Headqu<br>uld be aware that notwithstanding ar<br>DMB control number. | regarding this burden estimate<br>rmation Operations and Reports | or any other aspect of the<br>, 1215 Jefferson Davis | is collection of information,<br>Highway, Suite 1204, Arlington |                     |  |
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| a. REPORT<br>unclassified   | b. ABSTRACT<br>unclassified  | OF PAGES <b>210</b>  | RESPONSIBLE PERSON                                   |   |                     |  |

Standard Form 298 (Rev. 8-98) Prescribed by ANSI Std Z39-18



# ENVIRONMENTAL ASSESSMENT

JOINT BASE LANGLEY-EUSTIS Newport News, Virginia

# ALTERNATE WATER SUPPLY SYSTEM

FINAL - June 2013

Google

#### FINDING OF NO SIGNIFICANT IMPACT CONSTRUCTION AND OPERATION OF AN ALTERNATE WATER SUPPLY SYSTEM AND BOOSTER STATION JOINT BASE LANGLEY-EUSTIS, FORT EUSTIS CITY OF NEWPORT NEWS, VIRGINIA

Pursuant to the Council on Environmental Quality Regulations (Title 40 of the Code of Federal Regulations [CFR] Parts 1500–1508) for implementing the procedural provisions of the National Environmental Policy Act (Title 42 of the United States Code 4321 et seq.) and 32 CFR Part 989 (Air Force Environmental Impact Analysis Process), Joint Base Langley-Eustis, Fort Eustis (JBLE-FE), conducted an Environmental Assessment (EA) of the potential environmental, cultural, transportation, and socioeconomic effects associated with the construction and operation of an alternate water supply system and booster station.

#### Proposed Action

Old Dominion Utility Service (ODUS) owns and operates the water and sanitary sewer facilities at JBLE-FE. The existing water distribution system consists of approximately 50 miles of pipe, a water booster pumping station and two elevated storage tanks. The base is currently fed through a single 14-inch water line, which extends from Warwick Boulevard down Washington Boulevard to the existing water booster station in Building 6. The current JBLE-FE water distribution system operates on the levels of two elevated tanks. These tanks are filled by a water booster station pumping from the lower pressure south zone of the Lee Hall Water Treatment Plant (WTP). Newport News Waterworks (NNWW) operates the Lee Hall WTP. Similar to the existing water system at JBLE-FE, the alternate water supply system would be fed by the Lee Hall WTP.

ODUS proposes to install a new water supply point (hereinafter called the "Proposed Action") for the Fort Eustis portion of JBLE. Construction of this project would include activities such as excavation, site grading, trenching and pipe installation. The Proposed Action includes the following design features: meter vault, backflow preventer, water booster station, Approximately 2,450 linear feet of buried 12" pipe, and crush and run maintenance access road; approximately 1,700 linear feet long and 12 feet wide. A secondary connection would provide redundant water service to account for potential future water outages, which would improve system reliability. In order to meet demands, construction shall be completed, with the alternate water supply system fully operational, no later than September 30, 2013.

#### Purpose and Need

There have been previous water outages on JBLE-FE due to a water main break and due to required maintenance on the Newport News water line. Using average demands and assuming full elevated storage tanks, the existing water system would remain operational for less than 24 hours. The purpose of the Proposed Action is to create a secondary water connection, thereby providing redundancy and improving system reliability during any future outages to the main system.

#### Alternatives Considered

For Proposed Actions that require the preparation of an EA, the CEQ regulations, NEPA, and Air Force guidance and policy require that appropriate alternatives for the Proposed Action be described and evaluated. A reasonable range of alternatives that meet the underlying purpose and need for the Proposed Action should be analyzed for their environmental impacts in order to support a fully informed decision. Prescribed by CEQ and Air Force regulations, the No Action Alternative serves as a baseline against which the impacts of the Proposed Action and alternatives can be evaluated. Under the No Action

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Alternative, JBLE-FE would forgo the proposed alternate water supply system and would have limited operational time in the case of an outage in the existing system.

Two primary alternatives for the Proposed Action were identified and evaluated. Alternative 1, on Shellabarger Drive, was later divided into two options, 1A and 1B. Alternative 2 is in the Oakland Industrial Park. Prior to selecting the Preferred Alternative, these alternate locations were evaluated and Alternative 1A and 1B were eventually dismissed. Alternative 1A and 1B presented a number of obstacles in comparison with Alternative 2 (the Preferred Alternative) that included access issues, increased impacts to natural resources, design challenges and cost. A detailed analysis of each alternative and the reasons for its elimination are discussed in the body of this EA.

#### Factors Considered in Determining that No Environmental Impact Statement is Required

The EA, which is attached hereto and incorporated by reference into this Finding of No Significant Impact (FNSI), examines the potential effects of the Proposed Action and the No Action Alternative on resource areas and areas of environmental and socioeconomic concern: land use, aesthetic and visual resources, air quality, noise, geology and soils, water resources, biological resources, cultural resources, socioeconomics, environmental justice, transportation, utilities and hazardous materials. Implementing the Proposed Action would result in a combination of short and long-term minor adverse and beneficial effects. The Preferred Alternative is expected to disturb approximately 1.18 acres of land. Minor impacts to natural resources within the limits of the Proposed Action are expected as a result of constructing the Preferred Alternative. These include vegetation removal and impacts to wetlands. Additionally, the Preferred Alternative is expected to create short-term, minor, adverse impacts on air quality, noise, soils, and transportation, primarily associated with construction activities. Operational activities will produce few, if any, significant adverse effects. No impacts to rare, threatened or endangered species are anticipated. Additionally, no historic properties will be impacted within the project boundaries.

Mitigation measures will include the use of best management practices during and after construction to avoid and minimize adverse environmental effects. Construction activities would be covered under an approved plan for erosion and sediment control, using stormwater management and erosion control Best Management Practices required by Virginia Department of Conservation and Recreation (DCR). The project will adhere to any applicable federal, state, and local air regulations, such as those for the control of fugitive dust. Disturbed areas will be revegetated with native species and re-seeding will adhere to DCR requirements for sediment control.

#### **Public Review**

The draft EA and draft FNSI were available for public review and comment for 30 days, beginning upon the publication of notices of availability (NOA) in *The Daily Press* (Newport News, VA) on March 19, 2013, and March 20, 2013. Copies of the draft EA and draft FNSI were available for review and comments at Groninger Library BLDG 1313, Fort Eustis, VA 23604; Grissom Public Library, 366 DeShazor Drive, Newport News, VA 23606, and Christopher Newport University Library, 1 University Place Newport News, VA 23606, and online at <u>http://www.peninsulawarrior.com</u>. No public comments were received.

Coordination with federal and state agencies for the proposed project was initiated in January 2013 to solicit applicable comments related to the corresponding areas of jurisdiction and to obtain concurrence with the initial findings. Agencies contacted include the U.S. Fish and Wildlife Service (USFWS), U.S. Army Corps of Engineers (USACE), U.S. Environmental Protection Agency (EPA) Region III, U.S. Department of Agriculture Natural Resources Conservation Service, Newport News Department of Planning, the Virginia Department of Historic Resources (DHR) and the Virginia Department of

Environmental Quality (DEQ). Through its Environmental Impact Review process for federal projects, DEQ distributed scoping materials to appropriate state agencies. Owners of the private property on which the alternate water supply system would be located were also asked for comments. Agency responses are summarized as follows:

- Virginia Marine Resource Commission: Any jurisdictional impacts will be reviewed by VMRC during the Joint Permit Application process.
- Department of Environmental Quality: DEQ indicated that a Federal Consistency Determination is required per the Coastal Zone Management Act. Additionally, DEQ provided resource guidance information. In May 2013, DEQ concurred with the findings of the Federal Consistency Determination provided that construction activities are completed in accordance with appropriate enforceable local, state, and federal laws/regulations.
- Virginia Department of Historic Resources: DHR concurred with the Air Force determination that No Historic properties are located within the area of potential effect of the Proposed Action.
- Virginia Department of Health, Office of Drinking Water: Indicated that there are no apparent impacts and they have no additional scoping comments.
- U.S. Army Corp of Engineers: Indicated that when working near wetlands adhere to strict erosion and sediment control measures. In May 2013, the USACE indicated that no permit will be required from the Corps for the proposed work and noted that any permitting for impacts to the small offsite wetlands should be coordinated through DEQ and VMRC.
- U.S. Fish and Wildlife Service project review system Information, Planning, and Conservation System (IPaC): no federally proposed or listed endangered or threatened species are known to exist within the limits of the Proposed Action.

#### Conclusion

I have reviewed the EA and considered the comments received, and find that there will be no significant impacts to the natural environment, to cultural resources, or to the human environment resulting from this Proposed Action to construct and operate an alternate water supply system and booster station for JBLE-FE. Based on the evaluation of the environmental consequences in this EA, an environmental impact statement is not necessary.

statement is not necessary.

Date:

THOMAS R. WETHERINGTON, Colonel Commander, 733 Mission Support Group

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#### **EXECUTIVE SUMMARY**

#### INTRODUCTION

Pursuant to the National Environmental Policy Act (NEPA) of 1969, Federal agencies are required to consider the environmental consequences of their proposed actions. This Environmental Assessment (EA) has been prepared to evaluate potential environmental, cultural, transportation and socioeconomic effects associated with the proposed construction and operation of an alternate water supply system and booster station at Joint Base Langley-Eustis, Fort Eustis (hereinafter referred to as "JBLE-FE").

This EA documents the purpose and need, the alternatives developed, the site selection process and the analysis of potential environmental impacts considered to select a Preferred Alternative. Construction of the proposed project would begin once all studies and the design are complete and all permits are secured.

#### BACKGROUND AND SETTING

JBLE-FE is a joint military base aligned with Langley Air Force Base; the majority of military units are Army tenants. JBLE-FE was formed in 2010, when the Base Realignment and Closure Commission combined the two installations, (Langley Air Force Base and Fort Eustis). It is located in Newport News, Virginia, in the Tidewater Region. JBLE-FE employs over 12,000 military and civilian personnel.

#### **PROPOSED ACTION**

Old Dominion Utilities Service (ODUS) proposes to install a new water supply point (hereinafter called the "Proposed Action") for the Fort Eustis portion of JBLE. Construction of this project would include activities such as excavation, site grading, trenching and pipe installation.

The Proposed Action includes the following design features:

- Meter vault
- Backflow preventer
- Water booster station
- Approximately 2,450 linear feet of buried 12" pipe
- Crush and run maintenance access road; approximately 1,700 linear feet long and 12 feet wide

JBLE-FE has experienced water outages as a result of past water main breaks and during required maintenance on the connecting Newport News water main. Construction of the alternate water supply system is needed to meet the water demand for JBLE-FE. A secondary connection would provide redundant water service to account for potential future water outages, which would improve system reliability.

In order to meet demands, construction shall be completed, with the alternate water supply system fully operational, no later than September 30, 2013.



#### PURPOSE AND NEED

The purpose of the Proposed Action is to improve the reliability of the water supply system on JBLE-FE by providing a redundant water supply point for use in case of outages of the main system. Assuming average usage, full elevated storage tanks, and no alternate water source, future water outages would deplete the water supply at JBLE-FE in less than 24 hours.

#### ALTERNATIVES

The No Action Alternative, prescribed by the Council on Environmental Quality (CEQ), reflects the status quo and serves as a benchmark against which the other alternatives are evaluated. Under the No Action Alternative, JBLE-FE would forgo the proposed alternate water supply system and its related facilities.

Three alternatives were evaluated for the new alternate water supply system prior to selecting the alternative, which best met the purpose and need of the project (hereinafter referenced "Preferred Alternative"). Two of the options presented a number of obstacles in comparison with the Preferred Alternative, including access issues, increased impacts to natural resources, utility impacts, the need to repave the disturbed roadway and the potential for freezing. A detailed analysis of each alternative considered and the reasons for its elimination are discussed in the body of this EA.

The Preferred Alternative consists of 2,450 linear feet of buried 12-inch water main extending through a forested area on both JBLE-FE and adjacent private land. The 12-inch main would be tied into the existing 16-inch main on Enterprise Drive, which ties into a 30-inch main along Warwick Boulevard. This alternative presented the fewest adverse impacts to the surrounding environment and was the most feasible to construct. The Preferred Alternative is the shortest and least expensive of the alignments that were evaluated and it provides better access than the other options. It minimizes potential utility and wetland impacts and would not impact JBLE-FE traffic.

#### **ENVIRONMENTAL CONSEQUENCES**

This EA evaluates the potential short and long-term effects of the Proposed Action on land use, air quality, noise, aesthetics and visual resources, geology and soils, water resources, biological resources, cultural resources, socioeconomics, transportation, infrastructure and utilities, hazardous materials and environmental justice.

Implementation of the Proposed Action is expected to result in a combination of minor short and longterm adverse and beneficial effects to environmental resources and conditions. Table ES-1 summarizes the findings discussed in the body of this EA.



| Resource                            | Proposed Action                               | No-Action  |
|-------------------------------------|---|------------|
| Land use                            | Minor Adverse Short-term Impacts              | No Impacts |
| Air quality                         | Minor Adverse Short-term Impacts              | No Impacts |
| Noise                               | Minor Adverse Short-term Impacts              | No Impacts |
| Aesthetics and Visual Resources     | Minor Adverse Short-term Impacts              | No Impacts |
| Geology and Soils                   | Minor Adverse Short-term Impacts              | No Impacts |
| Water Resources, including wetlands | Minor Adverse Long-term Impacts               | No Impacts |
| Biological Resources                | Minor Adverse Short- and Long-term<br>Impacts | No Impacts |
| Cultural Resources                  | No Impacts                                    | No Impacts |
| Socioeconomics                      | Minor Beneficial Short-term Impacts           | No Impacts |
| Transportation                      | Minor Adverse Short-term Impacts              | No Impacts |
| Solid Waste and Utilities           | Minor Adverse Short-term Impacts              | No Impacts |
| Hazardous Materials                 | No Impacts                                    | No Impacts |
| Environmental Justice               | No Impacts                                    | No Impacts |

#### Table ES.1: Summary of Impacts



## **1.0 PURPOSE, NEED, AND SCOPE**

#### 1.1 Introduction and Background

Joint Base Langley-Eustis, Fort Eustis (JBLE-FE) is a joint military base aligned with Langley Air Force Base; the majority of military units are Army tenants. JBLE-FE was formed in 2010, when the Base Realignment and Closure Commission combined Langley Air Force Base and Fort Eustis. JBLE-FE is bound by the James River to the west and the Warwick River to the east (see **Figure 1**). It is contiguous to Newport News, Virginia, and employs over 12,000 military and civilian personnel.

Old Dominion Utility Service (ODUS) owns and operates the water and sanitary sewer facilities at JBLE-FE. The existing water distribution system consists of approximately 50 miles of pipe, a water booster pumping station and two elevated storage tanks. The base is currently fed through a single 14-inch water line which extends from Warwick Boulevard down Washington Boulevard to the existing water booster station in Building 6.

The current JBLE-FE water distribution system operates on the levels of two elevated tanks. These tanks are filled by a water booster station pumping from the lower pressure south zone of the Lee Hall Water Treatment Plant (WTP). The typical discharge pressure of the water booster pump station is between 75 and 80 pounds per square inch (psi). The proposed alternate water supply system would provide at least this much pressure in order to fill the tanks.

Newport News Waterworks (NNWW) operates the Lee Hall WTP, located approximately 0.7 miles northeast of Alternative 1 and 1.5 miles southeast of Alternative 2. Similar to the existing water system at JBLE-FE, the alternate water supply system would be fed by the Lee Hall WTP.

#### 1.2 Purpose and Need

There have been previous water outages on JBLE-FE due to a water main break and required maintenance on the Newport News water line. Using average demands and assuming full elevated storage tanks, the existing water system would remain operational for less than 24 hours. The purpose of the Proposed Action is to create a secondary water connection, thereby providing redundancy and improving system reliability during any future outages to the main system.

#### 1.3 Scope of the Environmental Assessment

In accordance with the National Environmental Policy Act (NEPA) of 1969 and regulations issued by the Council on Environmental Quality (CEQ), and in accordance with the Air Force Environmental Impact Analysis Process (32 CFR Part 989), this Environmental Assessment (EA) identifies, documents and evaluates the environmental effects likely to occur as a result of the Proposed Action. An interdisciplinary team of scientists, engineers, planners, archaeologists and military technicians reviewed





the findings discussed in this document, which acts to inform Federal agencies and the public of any direct environmental consequences likely to occur as a result of implementing the Proposed Action. This document also includes the development of alternatives, analyses of any secondary (or indirect) effects and a discussion of the cumulative effects of other known or foreseeable actions.

The environmental effects include those related to construction and operation of the Proposed Action. In considering environmental concerns, the US Air Force (USAF) is guided by relevant state and federal statutes as well as by Executive Orders (EO) that establish standards and provide guidance on environmental and natural resources management and planning.

#### 1.4 Public Involvement and Agency Coordination

The Air Force encourages public participation in the NEPA process. Documents about this Proposed Action are made available to agencies, organizations, and members of the general public with an interest in the Proposed Action so that they may review and comment on decisions as they are made.

Coordination with Federal and State agencies to solicit comments related to their corresponding areas of jurisdiction, and to obtain concurrence with the initial findings for the Proposed Action, was initiated in January 2013. Agencies contacted include the US Fish and Wildlife Service (USFWS), US Army Corps of Engineers (USACE), US Environmental Protection Agency (EPA), US Department of Agriculture Natural Resources Conservation Service, Newport News Department of Planning, NNWW, the Virginia Department of Historic Resources and the Virginia Department of Environmental Quality (DEQ). Through its Environmental Impact Review process for federal projects, DEQ distributed scoping materials to appropriate state agencies. High Liner Foods Incorporated, owners of the private property on which a portion of the alternate water supply system would be located were also coordinated with. Copies of the coordination letters and mailing list, along with agency responses and public comments, are located in **Appendix A**.

Public participation with respect to this EA is guided by 32 CFR Part 989. If the EA concludes that the Proposed Action would not result in significant environmental effects, the Air Force may issue a draft Finding of No Significant Impact (FNSI). The EA and draft FNSI were made available to the public for review and comment for 30 days beginning upon the publication of the notice of availability in the *Daily Press* (Newport News, VA) on March 19, 2013. At the end of the 30-day public review period, the Air Force will consider any comment submitted on the Proposed Action. As appropriate, they may then choose to execute the FNSI and continue with implementation of the Proposed Action. If it is determined that the implementation of the Proposed Action would have significant impacts, the Air Force would either publish a notice of intent to prepare an environmental impact statement in the *Federal Register*, commit to mitigation actions to reduce impacts below levels of significance, or cancel the action.



## 2.0 DESCRIPTION OF THE PROPOSED ACTION AND ALTERNATIVES

#### 2.1 Proposed Action

The Proposed Action consists of the construction of a 12-inch water main on JBLE-FE. It would include the following design features:

- Meter vault
- Backflow preventer
- Water booster station
- Approximately 2,450 linear feet of buried 12-inch pipe
- Crush and run access roadway for maintenance; approximately 1,700 feet long and 12 feet wide

The 12-inch water main is needed to provide a redundant water supply point in case of an outage in the existing system. With normal water demand, and assuming full water tanks, the existing system would remain operational for less than 24 hours in the case of an outage. Previous outages have occurred as a result of water main breaks and due to scheduled maintenance on the Newport News system.

Hydraulic modeling was used to evaluate pressures in an elevated storage tank for four different scenarios. The model evaluated the existing system, the Preferred Alternative connections with and without a Pressure Reducing Valve (PRV)/Control Valve, and the Preferred Alternative connection with a PRV, Booster Station and Control Valve.

During the scenario without a PRV/Control Valve, the elevated tank completely filled and would not drain. This caused system pressures to increase well above the 75 psi threshold for large parts of the system. The system high pressure was 91 psi. If the tanks are unable to cycle, water age would become an issue and increased system pressures could lead to the development of leaks in older sections of pipes.

The application of a PRV is a common method of achieving a steady pressure feed into a pipe network that operates at a lower pressure than its supply system. The desire of ODUS to continue utilizing the elevated tanks to supply the required demand means that these pressures would have to be regulated.

With the PRV set at 77.5 psi (to match the pressure provided by the booster station), the elevated tank is able to fill. However, it takes an additional 3.5 hrs. The increased cycle time would present an issue for water age and cause the system's flushing hydrants to operate more frequently. A water booster station with pumps able to match existing tank cycle times would prevent any additional maintenance and operations work as a result of the new connection.

#### 2.2 No Action Alternative

The No Action Alternative is the continuation of existing conditions without implementation of the Proposed Action. Prescribed by CEQ and Air Force regulations, the No Action Alternative serves as a baseline against which the impacts of the Proposed Action and alternatives can be evaluated. Under the



No Action Alternative, JBLE-FE would forgo the proposed alternate water supply system and would have limited operational time in the case of an outage in the existing system.

#### 2.3 Alternative Sites Considered

For Proposed Actions that require the preparation of an EA, the CEQ regulations, NEPA, and Air Force guidance and policy require that appropriate alternatives for the Proposed Action be described and evaluated. A reasonable range of alternatives that meet the underlying purpose and need for the Proposed Action should be analyzed for their environmental impacts in order to support a fully informed decision. An EA must include an evaluation of the No Action Alternative as a reference for the comparison of potential environmental impacts associated with the Proposed Action. Additionally, the EA should identify alternatives eliminated from detailed analysis and indicate the reasons for their elimination.

Two primary alternatives for the Proposed Action were identified and evaluated. Alternative 1, on Shellabarger Drive, was later divided into two options. Alternative 2 is in the Oakland Industrial Park.

#### Shellabarger Drive (Alternative 1):

In 2005, the USACE designed a second entrance to JBLE-FE, crossing the Warwick River along Shellabarger Drive. The project extended Shellabarger drive 3,700 feet from Warwick Boulevard to Madison Avenue. The 1,100 linear foot bridge across the Warwick River was designed and built with 14-inch diameter openings in each support to accommodate a waterline. This alignment would tie into the existing 12-inch main in Shellabarger Drive and extend 3,650 linear feet to tie into the existing JBLE-FE System at the corner of Madison Avenue and Lincoln Street. Due to the low system pressures, a water booster station would be required for this alternative. The alignment for this alternative is depicted on **Figure 2**. The existing 8-inch main in Madison Avenue would be replaced with a 12-inch main to improve flow to the elevated storage tanks.

Alternative 1 has been divided into two options. Alternative 1A would attach the pipe to the existing bridge. Alternative 1B would utilize a horizontal directional drill (HDD) to cross the Warwick River. The use of a HDD to cross the river would avoid disturbing the wetlands adjacent to the river.

#### **Oakland Industrial Park (Alternative 2):**

Oakland Industrial Park is located along Warwick Boulevard, north of the primary entrance to JBLE-FE. The Industrial Park's water system consists of a primary 16-inch main extending down Enterprise Drive, with a secondary 12-inch loop along Picketts Line. Both the 16-inch and 12-inch mains are tied into the 30-inch main along Warwick Boulevard. The 30-inch main provides water at a higher pressure than the majority of the Newport News system in order to service multiple customers in James City County. The proposed alignment would tie into the existing 16-inch main in Enterprise Drive. It would then extend 1,100 feet to the south, along the boundary between the High Liner Seafood property (190 Enterprise Drive) and the Newport News Industrial Corporation (NNI) property (182 Enterprise Drive), heading toward the JBLE-FE property line. On JBLE-FE, the water main would continue for approximately 660 feet south to an unnamed access drive and then turn east toward the Tactical Equipment Maintenance Facility (TEMF). The proposed alignment would extend approximately 690 feet east along the unnamed





access road and connect into two existing 8-inch mains currently serving the Tactical Equipment Maintenance Facility (TEMF). Alternative 2 is shown on **Figure 2**.

Both Alternatives would include a meter vault and a back flow preventer.

#### 2.4 Site Selection Process

The site selection process attempted to identify the most feasible, cost effective, minimally invasive, and least environmentally-sensitive location for the design features described above. The following are the site selection criteria used to evaluate the feasibility of each alternative location:

#### Impacts to the Public

- Considered the extent of disruption to the public during and after construction.
- Routes within easements would be preferred to those in roadway rights-of-way, because there would be fewer public impacts.

#### Easements

- Considered the number and size of easements that would be required.
- Routes with fewer easements would be preferred to those with more.

#### **Operations and Maintenance (O&M)**

- Considered access for operations and maintenance after construction.
- Alignments that allow for ease of access would be preferred to those in remote easement areas.
- Routes in roadways with lower speed limits and lower daily traffic counts would be preferred to those with higher speed limits and higher daily traffic counts.

#### Environmental Impacts

- Considered the effects of the project on the natural environment.
- Alignments that minimize environmental impacts would be preferred to those in more environmentally sensitive areas.
- Routes that minimize permitting and mitigation requirements would be preferred to those with greater requirements.

#### Constructability

- Considered factors that affect construction rates and costs, such as access, clearing, wetlands, traffic control, drainage crossings and use of easements versus putting pipes in pavement.
- Routes with fewer impediments to construction would be preferred to those with more.
- Routes with lower costs would be preferred to those with higher costs.



#### Utility Conflicts

- Considered impacts due to conflicts with existing and future utilities.
- Routes with fewer potential utility conflicts would be preferred to those with more.

#### Costs

- Considered the estimated cost of construction.
- Cost estimates were on a linear foot basis, not total cost.

Each Alternative was assigned a grade of 1 to 5 for each evaluation factor, with 5 being the best and 1 being the worst. While this scoring system is subjective, it was useful in providing a quantitative comparison between the alternatives. **Table 2.1** summarizes the scores for each alternative.

| Criterion                      | Alternative |    |    |
|--------------------------------|-------------|----|----|
| Criterion                      | 1A          | 1B | 2  |
| Public/Traffic Impacts         | 3           | 3  | 5  |
| Property Impacts/<br>Easements | 5           | 5  | 4  |
| Ease of O&M                    | 5           | 3  | 5  |
| Environmental Impacts          | 2           | 3  | 4  |
| Constructability               | 3           | 4  | 5  |
| Utility Conflicts              | 3           | 3  | 5  |
| Cost                           | 3           | 3  | 4  |
| Total Score                    | 24          | 24 | 32 |

#### Table 2.1: Alternative Decision Matrix

Alternative 2 received the highest score and is the least expensive alternative due to its shorter length and lack of a river crossing. Based on the results of the Alternative Decision Matrix, Alternative 2, in the Oakland Industrial Park, was selected as the Preferred Alternative. See **Figure 3**. A Conceptual Plan Set, including maps of the project site and piping system, are included in **Appendix B**.





#### **3.0 AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES**

#### 3.1 Introduction

The information provided in this section of the EA serves as a point of reference for understanding potential impacts resulting from the construction and operation of the proposed new infrastructure in the project area. The project study area is defined as an area approximately 50 feet on either side of the centerline of the Proposed Action. The Preferred Alternative would span approximately 2,450 feet, with approximately 1,350 feet on JBLE-FE, and the remaining 1,100 feet on adjacent private property owned by High Liner Foods Incorporated.

**Table 3.1** provides a summary of the potential environmental changes associated with both the Preferred and No Action alternatives. Under the No Action Alternative, JBLE-FE would forgo construction of the proposed alternate water supply system and there would be no changes to any environmental assets. The affected environment and anticipated impacts associated with the Proposed Action are further detailed in the sections that follow.

| Resource                        | Preferred Alternative                              | No-Action  |
|---------------------------------|--|------------|
| Land use                        | Minor Adverse Short-term impacts                   | No Impacts |
| Air quality                     | Minor Adverse Short- term Impacts                  | No Impacts |
| Noise                           | Minor Adverse Short-term Impacts                   | No Impacts |
| Aesthetics and Visual Resources | Minor Adverse Short-term Impacts                   | No Impacts |
| Geology and Soils               | Minor Adverse Short-term Impacts                   | No Impacts |
| Wetlands                        | Minor Adverse Long-term Impacts                    | No Impacts |
| Water Resources                 | No Impacts   | No Impacts |
| Biological Resources            | Minor Adverse Short-term and Long-<br>term Impacts | No Impacts |
| Cultural Resources              | No Impacts   | No Impacts |
| Socioeconomics                  | Minor Beneficial Short-term Impacts                | No Impacts |
| Transportation                  | Minor Adverse Short-term Impacts                   | No Impacts |
| Solid Waste and Utilities       | Minor Adverse Short-term Impacts                   | No Impacts |
| Hazardous Materials             | No Impacts   | No Impacts |
| Environmental Justice           | No Impacts   | No Impacts |

#### Table 3.1: Summary of Potential Environmental and Socioeconomic Consequences

#### 3.2 Land Use

#### 3.2.1 Affected Environment

This section addresses existing and proposed land use patterns within JBLE-FE and the surrounding vicinity, along with the areas associated with the Preferred Alternative. Current land use at JBLE-FE



includes military training (dominant land use), housing, commercial ventures, administrative facilities, recreational areas and open space. Similar to other military installations, JBLE-FE has distinct zones based on dominant land use. It is surrounded by residential areas, commercial centers, light industrial use and open space. According to Newport News' *Framework for the Future 2030*<sup>1</sup>, the Proposed Action would be in an area zoned as "Heavy Industrial" on the private land along the south side of Enterprise Drive and as "Government" on the JBLE-FE property south of the private parcels. **Table 3.2** presents a summary of total acres of land disturbance for each alternative evaluated:

|                             | Alternative |           |                     |  |
|-----------------------------|-------------|-----------|---------------------|--|
| Design Feature              | No Action   | Preferred |                     |  |
|                             |             |           | JBLE-FE<br>Property |  |
| Booster Station             | 0           | 0         | 0.14                |  |
| Alternate Water Supply Line | 0           | 0.20      | 0.35                |  |
| Maintenance Access Road     | 0           | 0.30      | 0.19                |  |
| Total                       | 0           | 1.18      |                     |  |

Table 3.2: Summary of Land Disturbance (acres)

In accordance with the Farmland Protection Policy Act, a Farmland Conversion Impact Rating Form was completed for the Proposed Action. This form is intended to evaluate impacts of proposed projects on Prime Farmland and Statewide Important or Local Important Farmland. One of the primary uses of land at Fort Eustis is for military training. The Proposed Action encompasses the installation of the water main and access road in Training Area 2 of JBLE-FE. This training area consists of 77 acres and is used by military units to conduct tactical bivouac, land navigation, small unit tactics and vehicle access training.

#### 3.2.2 Environmental Consequences

Impacts to land use as a result of implementing the Proposed Action were evaluated based on potential incompatibility with existing, proposed, or future land use designations, as well as conflicts with zoning, adjacent land use and other planning regulations. The Preferred Alternative would require permanent easements on approximately 0.50 acres of private property, all classified as 'Heavy Industrial' land use. Based on the current use of land that would be impacted by the Proposed Action, there would be no zoning or development conflicts. Furthermore, the Preferred Alternative project area is consistent with the existing land use designation. **Table 3.3** summarizes the permanent easements associated with each alternative.

<sup>&</sup>lt;sup>1</sup> Framework for the Future 2030 is a planning document utilized by the City of Newport News, neither this document nor the City of Newport News set the land use type for JBLE-FE.



|                             | No Action A     | Iternative | Preferred Alternative |         |
|-----------------------------|-----------------|------------|-----------------------|---------|
| Feature                     | Private<br>Land | JBLE-FE    | Private<br>Land       | JBLE-FE |
| Alternate Water Supply Line | 0               | 0          | 0.20                  | 0       |
| Maintenance Access Road     | 0               | 0          | 0.30                  | 0       |
| Total Easements Required    | 0               | 0          | 0.50                  | 0       |

 Table 3.3: Alternate Water Supply System Permanent Easements (acres)

According to the Natural Resources Conservation Service, there is no Prime Farmland, Statewide Important Farmland, or Local Important Farmland in the study area. See **Appendix A**. Temporary closure of Training Area 2 to training activities would occur during construction. The expected duration of this impact would be 30 days. Additionally, once the project is completed, the pipe would be buried; the access road would not impact future training activities since it is only intended to be used for the operations and maintenance of the Proposed Action and not for entrance into JBLE-FE. The total impacted area out of the 77 acres within Training Area 2 would be approximately 0.32 acres.

#### 3.3 Air Quality

#### 3.3.1 Affected Environment

Air quality is dependent upon a combination of factors, including the type and amount of pollutants emitted, the size and topography of the air basin and prevailing meteorological conditions. The significance of the pollutant concentration is determined by comparing an area's conditions with federal and state ambient air quality standards. Air quality is administered by the Clean Air Act (CAA) of 1972 (42 USC 85) and is regulated under 40 CFR Part 50, which requires EPA to establish primary and secondary National Ambient Air Quality Standards (NAAQS) for the protection of public health and the environment. NAAQS set the acceptable concentration levels for six criteria area air pollutants: carbon monoxide (CO), sulfur dioxide (SO<sub>2</sub>), ozone (O<sub>3</sub>), nitrogen dioxide (NO<sub>2</sub>), particulate matter (PM) less than 10 microns (PM<sub>10</sub>), PM less than 2.5 microns (PM<sub>2.5</sub>), and lead (Pb). Pollutant emissions and air quality in Virginia are monitored by DEQ and EPA Region 3. Where criteria pollutants exceed established NAAQS, areas are designated as nonattainment or maintenance zones<sup>2</sup> and a plan<sup>3</sup> must be implemented to improve the overall existing air quality in the designated Air Quality Control Regions (AQCR).

Federal actions occurring in nonattainment areas or maintenance areas require an analysis to determine whether or not the proposed action would be consistent with the overall air quality attainment goals established where the proposed project would occur. A general conformity determination is required to show that the proposed project would not exceed the designated threshold (*de minimis*) levels for criteria pollutants with established NAAQS goals.

<sup>&</sup>lt;sup>3</sup> Typically a State Implementation Plan (SIP), 40 CFR §51.



<sup>&</sup>lt;sup>2</sup> Air Quality Control Regions and their respective air quality attainment status are listed in 40 CFR §81.

JBLE-FE is located in the Hampton Roads Intrastate AQCR, as designated in 40 CFR 81.93. According to 40 CFR 81.321, the Hampton Roads Intrastate AQCR is classified as in attainment for all criteria pollutants. However, based on 1997 standards, it was designated as a nonattainment maintenance area for 8-hour ozone. After several consecutive years of improvements, the Hampton Roads Intrastate AQCR was determined to be in attainment for 8-hour ozone in June 2007. Since then, Hampton Roads has been designated as a maintenance area for 8-hour ozone.

#### 3.3.2 Environmental Consequences

Air quality impacts resulting from the proposed project would be limited to the intermittent use of a backup generator for the pump station as well as pollutant emissions associated with construction activities, including airborne dust from ground disturbance, operations, combustion byproducts from construction equipment and worker travel during construction. The amount of emissions generated during the construction and subsequent operation of the alternative water supply would be minor and would not substantially affect regional air quality in or around Newport News and the Hampton Roads Intrastate AQCR.

Due to its location within the Hampton Roads Intrastate AQCR, the study area is in attainment for all area criteria pollutants and is in a designated maintenance area for 8-hour ozone. Therefore, with the exception of ozone emissions, these pollutants are not subject to a review of the project's conformity with the CAA or any established State Implementation Plans (SIP) (see **Appendix C**). An analysis of the potential for ozone emissions has been conducted and is summarized in **Table 3.4**. Because ozone forms from other emissions, the analysis focuses on ozone precursors, including volatile organic compounds (VOCs), sulfur oxides (SOx), and nitrogen oxides (NOx).

| Activity                           | Emissions (tons/year) |       |       |  |
|------------------------------------|-----------------------|-------|-------|--|
| Activity                           | VOCs                  | SOx   | NOx   |  |
| 2013 Construction Emissions        | 0.0085                | .0008 | 0.545 |  |
| Annual Operation Emissions         | 0                     | 0     | 0     |  |
| De Minimis Thresholds <sup>1</sup> | 50                    | 100   | 100   |  |
| Threshold Exceeded?                | No                    | No    | No    |  |

# Table 3.4: Comparison of Construction and Operation Emissionsto GeneralConformity Rule De Minimis Thresholds

<sup>1</sup>EPA threshold for maintenance areas (40 CRF 93§153).

The analysis concludes that the proposed project would remain below the EPA's *de minimis* threshold for an 8-hour ozone maintenance area and would be consistent with the overall air quality attainment goals established for the proposed project study area.



#### 3.4 Noise

#### 3.4.1 Affected Environment

Noise is defined as unwanted sound that interferes with normal activities in a way that reduces the quality of the environment or is otherwise intrusive. Sounds can be intermittent or continuous. The two primary types of sound sources are stationary and transient. Stationary sources are immobile sources usually associated with a specific location, such as the noise generated at a construction site. Transient sound sources, such as vehicles or aircraft, move through the area. The loudness of sound as heard by the human ear is measured on the A-weighted decibel (dBA) scale. Examples can be found in **Table 3.5**.

| Source                | Decibel Level | Exposure Concern                          |
|-----------------------|---------------|---|
| Soft Whisper          | 30            |   |
| Average Home          | 50            | Normal, safe levels                       |
| Conversational Speech | 65            |   |
| Highway Traffic       | 75            |   |
| Average Factory       | 80-90         | May affect hearing in some individuals    |
| Automobile Horn       | 120           |   |
| Jet Plane             | 140           | Noises at an over 140 dPA may equipe pain |
| Gunshot Blast         | 140           | Noises at or over 140 dBA may cause pain  |

#### Table 3.5: Common Noise Levels

Source: EPA Pamphlet, "Noise and Your Hearing," 1986.

#### 3.4.2 Environmental Consequences

Minor short-term adverse noise impacts are expected in the Project Area. Short-term increases in noise may result from the delivery and use of construction equipment. **Table 3.6** provides a representation of noise levels associated with new construction. With multiple pieces of equipment operating concurrently, noise levels can be relatively high during daytime periods at locations within 400 to 800 feet of active construction sites. Limiting construction activities to normal working hours and employing noise-control methods to the greatest extent possible would mitigate noise impacts during the construction phase.

| Type of Equipment | dBA (at 50 feet) |  |  |
|-------------------|------------------|--|--|
| Bulldozer         | 80               |  |  |
| Backhoe/Bobcat    | 72-93            |  |  |
| Jack hammer       | 81-98            |  |  |
| Crane             | 75-77            |  |  |
| Pick-up truck     | 83-94            |  |  |
| Dump truck        | 83-94            |  |  |

# Table 3.6: Typical ConstructionEquipment Noise Levels



No long-term increases in the overall noise environment are anticipated from implementation of the Proposed Action.

#### 3.5 Aesthetics and Visual Resources

#### 3.5.1 Affected Environment

Visual resources include the natural and man-made features that give a location its aesthetic qualities. These features form the overall impression a viewer obtains of an area, or its landscape character.

The Proposed Action is located in a mature mixed hardwood forest. The portion that is on private land is located near the boundary between two industrial facilities. Approximately half of the portion that is on JBLE-FE is adjacent to an unpaved access road. The remainder is within the forest.

#### 3.5.2 Environmental Consequences

The proposed pipe would be concealed entirely underground and would cause only temporary, minor visual impacts during the construction process. The access road would be 12 feet wide, spanning the length of the project. While the road itself would be a new visual element, the surrounding forest would be left intact, largely hiding the road from view. The proposed water booster station would be adjacent to the newly-constructed Tactical Equipment Maintenance Facility (TEMF), and would not change the visual character of the area. See **Figure 3**.

#### 3.6 Geology and Soils

Geology and soils are those aspects of the natural environment related to the earth. Some features include the presence/availability of mineral resources, soil condition and capabilities, potential for natural hazards, topography, physiology and geologic units and their structure.

#### 3.6.1 Affected Environment

JBLE-FE lies within the Atlantic Coastal Plain Physiographic province. The Coastal Plain is underlain by a thick wedge of sediments that increases in thickness from the fall line to the continental shelf. These sediments rest on an eroded surface of Precambrian to Cenozoic rock. Sediments in the study area are from the Quaternary era.

The topography around JBLE-FE is generally flat, with approximately 60 feet of topographic relief. The greatest slopes occur along stream corridors. The study area is approximately 30 feet above sea level and the topography is flat.

The majority of the land in the project area is suitable for building; it is primarily mapped as Chickahominy-Urban land complex (8), Newflat-Urban land complex (17), and Peawick-Urban land complex (19) soil. Each of these soils is prevalent in urban areas, and each has silt loam or loam texture in the upper 6 inches. Deeper layers consist of clay, silty clay, or silty clay loam. None of these soils are classified as Prime Farmland soils.



#### 3.6.2 Environmental Consequences

Minor short-term adverse effects on soils are expected with implementation of the Proposed Action. Installation of the pipe and construction of the maintenance access road and water booster station would involve the removal of vegetation and disturbance of soils to the depth<sup>4</sup> required for installation or construction. A Virginia Stormwater Management Program Permit would be obtained from the Virginia Department of Conservation and Recreation (DCR) for the Proposed Action. This permit would cover erosion and sediment control, stormwater management, and stormwater pollution prevention. Best management practices (BMPs) would be incorporated and maintained as part of the Proposed Action. BMPs at construction sites typically consist of various erosion and sediment control measures. Temporary measures such as silt fences or straw bales may be placed around the perimeter to control erosion until pipe installation and construction of the access road and water booster station are complete, and the soil has been stabilized.

Disturbed areas would be fully stabilized and re-vegetated with non-invasive grasses following construction activities. Re-seeding will adhere to DCR requirements for sediment control. No adverse effects are expected to impact site specific geology or topography as a result of implementing the Proposed Action.

#### 3.7 Water Resources

This section describes the existing water resources that may be impacted as a result of implementing the Proposed Action, including strategies to avoid and minimize those impacts.

#### 3.7.1 Affected Environment

#### Surface Water

JBLE-FE is located in the Lower James River drainage basin (Hydrologic Unit Code 02080206). The James River drains into the Chesapeake Bay, which drains into the Atlantic Ocean. There are ten named waterways on or bordering JBLE-FE, along with numerous intermittent channels. Bailey Creek flows into Skiffes Creek, which flows into the James River. Jail Creek, Morrisons Creek, Blows Creek, and Fort Creek also discharge into the James River. Milstead Creek, Island Creek, and Butlers Gut connect the Warwick River to the James River. JBLE-FE contains approximately 21.6 miles of open tidal shoreline along the James and Warwick Rivers and Skiffes Creek.

In November 2012 a field survey was conducted on the private property within the limits of the Proposed Action. The survey included a search for intermittent or perennial streams, but none were identified within or immediately adjacent to the Proposed Action. However, there is a perennial stream immediately adjacent to the Proposed Action within Training Area 2. The perennial stream runs beside and under (through a culvert system) the Proposed Action's route along the main Training Area 2 Maneuver Trail.

<sup>&</sup>lt;sup>4</sup> Typical depth of installation is 3 ft of cover with a 1 ft pipe and 6 inches of stone bedding (about 5 ft). Pipeline and booster station installation does not exceed 8 ft.



#### Groundwater

Potable water in the study area is purchased from NNWW. The primary sources are the Chickahominy River and six deep wells (between 505 and 1,131 feet) in the Lee Hall area. The wells draw brackish water from the Potomac Aquifer. The Chickahominy River has a relatively high susceptibility to contamination, but the wells have low susceptibility. NNWW's water system complies with standards in the *Safe Drinking Water Act* (SDWA) and with the Commonwealth of Virginia's standards, which mirror those of the SDWA.

#### Wetlands

JBLE-FE has approximately 3,000 acres of wetland resources across the base. Many of these wetlands are situated in the floodplains of the ten named waterways on the installation. Nearly 100% of the installation has been delineated by the US Army Corps of Engineers Norfolk District excluding most of the impact area<sup>5</sup> which is not associated with the Proposed Action. USACE confirmation for delineations performed on JBLE-FE was originally received in September 2008 with additional delineation work completed in 2012. The wetlands data for the portion of the proposed action on Fort Eustis property remains valid.

Information concerning the potential nature and extent of wetlands within and adjacent to the Proposed Action was obtained by performing routine wetlands delineations of the study area, using the USACE's 1987 *Wetlands Delineation Manual*. The manual's routine on-site determination method was used. Wetland delineations involve an assessment of existing conditions, an inventory of the dominant vegetative species, an assessment of the hydrological influences of an area and an evaluation of the soil profile.

In November 2012, a wetland delineation was performed on the privately-owned property in the study area, subject to regulation under Section 404 of the Clean Water Act (CWA). The USACE has provided several regional supplements for the 1987 *Wetlands Delineation Manual*, and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0)* was used in this delineation. Results of the delineation are summarized in a December 2012 memorandum see **Appendix D**. The USACE preformed a site confirmation for the wetland delineation on private property on May 1, 2013. See **Appendix A** for USACE field determination coordination letter.

Two wetlands were identified on the private land within the limits of the Proposed Action. Both were Palustrine Emergent (PEM), with the vegetation dominated by cattails (*Typha latifolia*), soft rush (*Juncus effusus*), and woolgrass (*Scirpus cyperinus*). Four Palustrine Forested (PFO) wetlands were found on the JBLE-FE land within or near the limits of the Proposed Action. The dominant wetland vegetation on this part of the base includes cherrybark oak (*Quercus pagoda*), green ash (*Fraxinus pennsylvanica*), chain

<sup>&</sup>lt;sup>5</sup> The Munitions and Explosives of Concern Hazard Assessment (MEC HA) defines a target area as "Areas at which munitions fire was directed." Those areas within the designated range boundaries which could be used as a target area or which could reasonably be used as a munitions fire area. With the exception of the range safety fans all areas within the designated range limit would be considered impact areas."





fern (*Woodwardia* spp.), and soft rush. No impacts to wetlands on the installation are expected based on avoidance. Wetlands located within or near the limits of the Proposed Action are shown on **Figure 4**.

#### Floodplains

EO 11988, *Floodplain Management*, requires federal agencies to consider the risks and potential impacts of locating projects within floodplains. Floodplains are typically described as areas likely to be inundated by a particular flood. For example an area that has a one percent chance of flooding in a one-year span is in the 500-year floodplain.

The 1986 Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map that includes the study area shows that the Proposed Action would be located in Flood Zone C. This zone is subject to infrequent flooding, with floods occurring, on average, less than once every 500 years. FEMA does not have any regulatory requirements for construction in Flood Zone C because of the low flood risk.

#### Coastal Zone

The study area is entirely within Virginia's Coastal Zone Management (CZM) Program area, which includes the Chesapeake Bay. Established by an EO, the CZM Program is a network of state laws and policies designed to protect coastal and marine estuaries. DEQ regulates activities proposed within Virginia's CZM area through federal consistency requirements. Additionally, EO 13508 "recognizes the Chesapeake Bay as a national treasure and calls on the federal government to lead a renewed effort to restore and protect the nation's largest estuary and its watershed." Federal agencies are required to determine whether their activities are reasonably likely to affect any coastal use or resource and to conduct such activities in a manner consistent to the maximum extent practicable with the goals and objectives of EO 13508 and Virginia's CZM Program.

#### 3.7.2 Environmental Consequences

#### Surface Water

Construction impacts associated with the Proposed Action could have a short-term effect on water resources by increasing storm water runoff from the site and carrying sediment and contamination loads into nearby waters during heavy rain. Construction activities would comply with the *Virginia Erosion* and Sediment Control Regulations and the Virginia Stormwater Management Regulations to avoid or minimize erosion.

No streams were identified on private land during field visits to the area within the limits of the Proposed Action. However, a perennial stream is located immediately adjacent to the study area within Training Area 2. The perennial stream runs beside and under (through a culvert system) the Proposed Action's route along the main Training Area 2 Maneuver Trail. There will be no direct impact to the perennial stream in terms of mechanical alteration however; proper erosion and sediment control and spill prevention measures will be part of any permit from DCR.

The Proposed Action would add approximately 0.52 acres of new impervious surfaces to the site, as shown in **Table 3.7**. Grassed swales would be utilized to address the additional impervious surface. No long-term impacts to surface water are likely to occur from on-going operations.



| New Impervious Surface (Acres) |             |                     |                     |  |
|--------------------------------|-------------|---------------------|---------------------|--|
|                                | Alternative |                     |                     |  |
| Feature                        |             | Preferred           |                     |  |
|                                | No Action   | Private<br>Property | JBLE-FE<br>Property |  |
| Maintenance Access Road        | 0           | 0.3                 | 0.19                |  |
| Pump Station                   | 0           | 0                   | 0.03                |  |
| Total                          | 0           | 0.52                |                     |  |

#### Table 3.7: Summary of New Impervious Surfaces

#### Groundwater

Construction activities such as fueling equipment or fluids leaked from equipment have the potential to occur and could result in groundwater contamination. BMP's would be used to prevent spills or leaks for vehicles, equipment, and containers. Spills or discharges of fuel, hydraulics, or other hazardous materials would be reported immediately by calling Fire and Emergency Services and responded to in accordance with the Fort Eustis Integrated Contingency Plan and the Fort Eustis Spill Prevention, Control and Countermeasures Plan.

#### Wetlands

Construction of the Proposed Action would impact approximately 0.003 acres of PEM wetlands located on private property. No wetlands on JBLE-FE property will be impacted (see **Figure 4**). As shown in **Table 3.8**, the impacts would be permanent.

| 14                            | Wetland Acres                          | Acres in | Acres Impacted        |           |           |           |
|-------------------------------|--|----------|-----------------------|-----------|-----------|-----------|
| Wetland                       | Type the Project No Action Alternative |          | Preferred Alternative |           |           |           |
|                               |  | Area     | Temporary             | Permanent | Temporary | Permanent |
| Private Property<br>Wetland 1 | PEM                                    | 0.002    | 0                     | 0         | 0         | 0         |
| Private Property<br>Wetland 2 | PEM                                    | 0.003    | 0                     | 0         | 0         | 0.003     |
| JBLE-FE Property<br>Wetland 3 | PFO                                    | 0.02     | 0                     | 0         | 0         | 0         |
| JBLE-FE Property<br>Wetland 4 | PFO                                    | 0.02     | 0                     | 0         | 0         | 0         |
| JBLE-FE Property<br>Wetland 5 | PFO                                    | 0.02     | 0                     | 0         | 0         | 0         |

#### Table 3.8: Wetland Impacts



|                               | Wetland<br>Type<br>Acres<br>the Project<br>Area | Acres Impacted        |           |                       |           |           |
|-------------------------------|---|-----------------------|-----------|-----------------------|-----------|-----------|
| Wetland                       |   | No Action Alternative |           | Preferred Alternative |           |           |
| lipe                          | Type  | Area                  | Temporary | Permanent             | Temporary | Permanent |
| JBLE-FE Property<br>Wetland 6 | PFO   | 0.0005                | 0         | 0                     | 0         | 0         |
| Total                         |   | 0.07                  | 0         | 0                     | 0         | 0.003     |

Proposed impacts to two small isolated wetlands may require a Joint Permit Application be submitted to the regulatory agencies. No mitigation is anticipated to be required for this project due to minimal size of the impacts.

#### Floodplains

Because the Preferred Alternative is in an area mapped as Zone C by FEMA, there would be no impacts to floodplains due to the project.

#### Coastal Zone

To abide by the policies set forth within the Virginia CZM Program, a consistency determination has been completed and was submitted in March 2013to DEQ for review as part of this draft EA. The documentation shows that impacts to wetlands are being minimized to the maximum extent possible and that there would be no impacts to floodplains. In May 2013, DEQ concurred that the proposal is consistent with the CZM program. Furthermore, based on the type of project and provided that construction activities are completed in accordance with appropriate enforceable local, state, and federal laws/regulations; the project will be consistent with the goals and objectives of Virginia's CZM program and the intent of EO 13508. As the project moves forward and as outlined in DEQ's response, coordination with appropriate resource agencies will continue as necessary, see **Appendix E**.

#### 3.8 Biological Resources

This section describes native or naturalized vegetation and wildlife in the project vicinity, and the habitats in which they occur.

#### 3.8.1 Affected Environment

#### Vegetation

Extensive development near the Proposed Action has resulted in few areas retaining their native vegetation. The vegetation within and adjacent to the Proposed Action includes 77 acres (which are part of Training Area 2 on JBLE-FE) of mature hardwood forest, with developed areas slightly outside this area. Forested areas are shown on **Figure 4**. Tree species found on the project site are listed in **Table 3.9**. There was no understory in the forest, and the only common herbaceous species was Japanese honeysuckle (*Lonicera japonica*).



| Common Name       | Scientific Name         |
|-------------------|-------------------------|
| willow oak        | Quercus phellos         |
| sweetgum          | Liquidambar styraciflua |
| American beech    | Fagus grandifolia       |
| loblolly pine     | Pinus taeda             |
| American holly    | llex opaca              |
| red maple         | Acer rubrum             |
| eastern redcedar  | Juniperus viginianus    |
| Other oak species | Quercus spp.            |

The primary objective of Fort Eustis's forest management program is to "maintain and enhance the installation's ecological integrity in support of the military mission (AFI32-7064)". USAF policy stipulates that forest resources must be managed for long-term sustainability, and that management must be compatible with protecting federally listed threatened and endangered species, maintaining biodiversity, protecting the Chesapeake Bay watershed, and providing wildlife habitat enhancement and outdoor recreational activities. The forest management program must also fully comply with all applicable federal laws, policies, and regulations pertaining to forest management.

Based on the dimensions of the road described in Section 2.1, approximately 0.32 acres would be affected on JBLE-FE property and 0.52 acres would be affected on private property. This amount of timber would not likely constitute a timber sale. Impacts on JBLE-FE land would be mitigated in accordance with the current *Timber Inventory and Forest Management Plan*. The portion of JBLE-FE that is in the limits of the Proposed Action is in a forest compartment whose management includes performing annual inspections for insect and disease control.

#### Wildlife Resources

Wildlife species likely to occur in the project vicinity are typical of those found in most urban-suburban areas. Mammalian species include white-tailed deer (*Odocoileus virginianus*), gray squirrel (*Sciurus carolinensis*), eastern cottontail (*Sylvilagus floridanus*), and raccoons (*Procyon lotor*). Bird species observed or expected to inhabit the area include the Wild Turkey (*Meleagris gallopavo*), Tufted Titmouse (*Baeolophus bicolor*), Carolina Chickadee (*Poecile carolinensis*), Northern Cardinal (*Cardinalis cardinalis*), Hairy Woodpecker (*Picoides villosus*), and Downy Woodpecker (*Picoides pubescens*). Additionally, various other passerine bird species as well as some raptors such as sharp-shined and Cooper's hawks (*Accipiter striatus velox* and *Accipiter cooperii*) would be expected. Reptiles observed in the project vicinity include Eastern ratsnakes (*Pantherophis alleghaniensis*), skinks (*Pleistodon spp.*) and box turtles (*Terrapene carolina*). Amphibians observed in the area include Fowler's toad (*Anaxyrus fowleri*), marbled salamander (*Ambystoma opacum*) and Eastern red-backed salamander (*Plethodon cinereus*). In 2007, JBLE-FE natural resources staff surveyed Training Area 2 and adjacent JBLE-FE property for the state threatened Mabees salamander (*Ambystoma mabeei*) though none were found.


Completion of U.S. Fish and Wildlife Service's (USFWS) "Information, Planning, and Conservation System" (IPaC) project review process indicated that no federally threatened or endangered wildlife species or federal candidate species are known to occur within the limits of the Proposed Action. Searches of the Virginia Department of Game and Inland Fisheries database and DCR's Natural Heritage Resources database indicated that there are no rare, threatened, or endangered floral or faunal species within a two mile radius of the Proposed Action. See **Appendix F**.

Bald eagles occur on JBLE-FE. Currently seven active nest sites are documented by installation natural resources staff. However, no nest sites are known to exist in Training Area 2 nor in the immediate area of the project on JBLE-FE property.

# 3.8.2 Environmental Consequences

As discussed below, minor short-term and long-term effects to biological resources are anticipated from implementation of the Proposed Action.

# Vegetation

Mature trees would be cleared to allow for the construction and installation of the subterranean pipe and access road. Construction would disturb the plant ecology in the immediate vicinity of the project site. After the pipe, booster station, and access road are in place, disturbed areas would be stabilized with non-invasive grass species. Temporary measures (silt fencing) would be used to ensure that no trees outside the intended area of disturbance would be removed. However, approximately 0.81 acres of forested land would be disturbed. Approximately 0.32 acres would be affected on JBLE-FE property and 0.52 acres would be affected on private property. The disturbance would be linear, approximately 1,760 feet long and 20 feet wide. All other forest would remain intact. Given the limited acreage of forest that would be disturbed, and the linear nature of the disturbance, no mitigation is planned.

USFWS IPaC review indicated that the only potential federally listed plant species that might occur at JBLE-FE is the Sensitive Joint-Vetch (*Aeschynomene virginica*). This species occurs in aquatic systems (fresh to slightly brackish tidal river systems) and normally where flooding tends to occur twice daily within the intertidal zones. The upland forested area of Training Area 2 is not appropriate habitat for this species. There are no federally listed threatened or endangered plant species known to exist on the Project Site. See **Appendix F.** 

# Wildlife Resources

There are no federally listed threatened or endangered wildlife species on the Project Site or on JBLE-FE property. Additionally, there are no known bald eagle nest sites in Training Area 2 nor nest sites near other areas of the project on JBLE-FE property. Consequently, no impacts to protected species are expected. Additionally, with the incorporation of proper erosion and sediment controls and BMPs to negate sediment runoff and increased storm water flow, impacts to rare, threatened and endangered species that may be located outside the project area would be avoided.

Removal of vegetative habitat may have minor adverse short-term effects on wildlife at the site due to displacement. Noise, dust, and destruction of habitat from construction would temporarily disturb



wildlife in and directly around the project area. Some animals may gradually re-enter the area once construction of the Proposed Action is complete and succession has begun. Overall, the effects on wildlife would be minor and short-term, as habitat would be only temporarily disturbed and most wildlife species would avoid the disturbance by relocating to adjacent undisturbed areas.

#### 3.9 Cultural Resources

# 3.9.1 Affected Environment

Section 106 of the National Historic Preservation Act of 1966, as amended, requires federal agencies to consider the effects of their programs, projects, and actions on historic properties and to allow the Advisory Council on Historic Preservation an opportunity to comment. Qualifying properties include any prehistoric or historic district, site, building, structure, or object eligible for inclusion in the National Register of Historic Places. If adverse effects on historic, archaeological, or cultural properties are located within a project's Area of Potential Effect, then agencies must attempt to avoid, minimize, or mitigate the impacts to resources that are significant in our nation's history.

Cultural resources at JBLE-FE are managed according to the Fort Eustis *Integrated Cultural Resources Management Plan: 2012-2016 Draft (ICRMP).* The ICRMP provides guidelines and procedures to enable JBLE-FE to meet its legal responsibilities pertaining to cultural resources and includes the process for moving forward when these are identified within project site boundaries.

# 3.9.2 Environmental Consequences

In a letter to the Virginia Department of Historic Resources (VDHR), dated January 4, 2013, the USAF Civil Engineering Division reported that no historic properties are present in the project area. VDHR issued their concurrence on January 23, 2013.

# 3.10 Socioeconomics

# 3.10.1 Affected Environment

Socioeconomics examines the social and economic characteristics of a community. Demographic variables such as population size, level of employment, and incomes assist in analyzing the fiscal condition of a community and its government, school system, public services, healthcare facilities and other amenities. The socioeconomic Region of Influence (ROI) for this project consists of US Census block groups 032300-3 and 032400-2. The Proposed Action is completely within these block groups.

The regional economy is dominated by non-farming industries such as Government and Government enterprises, retail trade, professional and technical services and health care. JBLE-FE is a major employer in the area, with an annual payroll of over \$622 million in Fiscal Year 2010. The only two businesses in the study area are High Liner Foods and Newport News Industrial. Each of the block groups in the ROI contains 834 housing units; however, there are none in the study area.

# 3.10.2 Environmental Consequences

Implementation of the Proposed Action will result in no significant impacts to socioeconomics in either the short- or long-term. The construction phase could have a temporary positive effect on the local



economy due to the employment of local construction workers. No impacts are expected to either Fort Eustis or private sector employees with the implementation of the Proposed Action. The Proposed Action is not anticipated to affect median household incomes, and it would not impact any housing units.

#### 3.11 Transportation

Transportation in and around the limits of the Proposed Action consists of Military training routes (those associated with Training Areas I & II Maneuver Trail), and the local road and street network. Major roads near the project area include Warwick Boulevard, Fort Eustis Boulevard, Washington Boulevard, Jefferson Avenue and Interstate 64.

#### **3.11.1 Affected Environment**

JBLE-FE is located in the northwestern part of Newport News, near the James City County line and is served by the surrounding roadway network. The public access point for JBLE-FE is on Washington Boulevard, at the northern end of the installation. Military personnel can also access JBLE-FE via secured gates on Shellabarger Drive, on the eastern boundary of the installation. On-installation routes through JBLE-FE include Washington Boulevard, Taylor Avenue, Madison Avenue, and Pershing Avenue. Newport News-Williamsburg International Airport, approximately seven miles from the main gate, is the closest commercial aviation facility.

#### 3.11.2 Environmental Consequences

Transportation-related impacts from the Proposed Action would be negligible. Lane closures may occur intermittently along Enterprise Drive in order to move equipment to and from the project site. No full roadway closures are anticipated. Construction and worker vehicles are expected to have sufficient parking space.

# 3.12 Solid Waste and Utilities

This section discusses the systems and facilities that provide water, wastewater treatment, solid waste disposal, communications, natural gas and electricity.

# **3.12.1 Affected Environment**

#### Potable Water Systems

According to VDH records, there is no evidence of wells in the project vicinity. ODUS owns and operates the water facilities at JBLE-FE. Water is supplied to the adjacent private land by NNWW. Water comes from the Lee Hall WTP, operated by NNWW. Water entering this treatment plant comes in the form of surface water from the Chickahominy River and brackish water from six deep wells that tap into the Potomac Aquifer. The existing water distribution system consists of approximately 50 miles of pipe, a water booster pumping station and two elevated storage tanks. JBLE-FE is currently fed through a single 14-inch water line which extends from Warwick Boulevard down Washington Boulevard to the existing water booster station in Building 6.

The surface water is pumped to the treatment plant, where it passes through screens. Chemicals are added to cause tiny particles in the water to cling together, making them easier to remove. After the water is



clarified, it is disinfected to kill microorganisms such as bacteria and viruses. The water is then sent through filters to remove any remaining particles. Lime is added to adjust the pH, fluoride is added to prevent tooth decay, and another chemical is added to control corrosion inside the pipe system. Finally, a secondary disinfectant is added to maintain disinfection in the pipe system while transporting water to homes and businesses.

Brackish well water is pumped to a desalination plant at the Lee Hall facility. Using reverse osmosis, water is forced by high pressure through membranes that remove the salt and most other contaminants to produce very high-quality water. The water is blended with treated surface water and sent to customers.

#### Wastewater

According to the VDH, there is no evidence of septic systems in the project vicinity. ODUS owns and operates the sanitary sewer facilities at JBLE-FE. Newport News owns and operates the sanitary sewer facilities on the private land in the project area. All wastewater generated in the project vicinity is conveyed to the Hampton Roads Sanitation District's James River Treatment Plant on Riverview Parkway in Newport News. Sewage flows to the plant via gravity sewers and force mains. The Treatment Plant has the capacity to process and treat 20 million gallons of wastewater per day. Once treatment of wastewater is complete, all treated water is discharged into the James River. The James River Treatment Plant is currently in compliance with all of the discharge standards required under its Virginia Pollutant Discharge Elimination System permit.

# Stormwater Management

Stormwater from most of the study area is not treated. On the portion of the study area located on JBLE-FE, stormwater moves via natural drainages into Skiffes Creek and Bailey Creek. Stormwater on the front portion of the private parcels on Enterprise Drive flows into a roadside ditch which discharges to Skiffes Creek. Stormwater from the back portion of these parcels is treated in a small BMP near the JBLE-FE boundary. Skiffes Creek and Bailey Creek ultimately discharge into the James River, a tributary of the lower Chesapeake Bay. Virginia has stringent standards to protect the Chesapeake Bay watershed and its valuable resources and requires that all jurisdictions implement a stormwater management program to control the quantity and quality of stormwater runoff resulting from new development. JBLE-FE furthers these efforts by maintaining a Stormwater Pollution Prevention Plan that establishes BMP's for controlling and preventing contaminants associated with construction and industrial activity from reaching area surface waters.

# Solid Waste

There are no active landfills on JBLE-FE; all solid waste from the base is transported to a permitted facility located off of the installation. Solid wastes in the project area are collected and disposed of in the landfill off Big Bethel Road in the City of Hampton. Recycling collection is provided both on JBLE-FE and in the City of Newport News.

# Communications

Cable television, internet and telephone service in the study area is provided by Cox Communications and Verizon. Cox Communications has its headquarters in Atlanta and serves over 6 million customers



nationwide. Verizon is based in New York City and has over 98 million customers in the United States. There are fiber optic lines adjacent to the site of the proposed water booster station.

# Natural Gas

Natural gas in the project area is provided by Virginia Natural Gas. Headquartered in Norfolk, Virginia Natural Gas serves over 275,000 customers in southeastern Virginia. There are natural gas lines adjacent to the land proposed for the water booster station.

# Electricity

Dominion Virginia Power provides electrical service in the project area. Based in Richmond, Dominion Virginia Power serves 2.4 million customers in Virginia and northeastern North Carolina. There are electric lines running through the site of the proposed water booster station.

# 3.12.2 Environmental Consequences

# Potable Water Systems

It is possible that short-term, localized disruptions to water service could occur at the TEMF due to construction activities. No other effects are anticipated with implementation of the Proposed Action.

# Wastewater

The Proposed Action would have no impact on any existing wastewater infrastructure.

# Stormwater System

Development projects typically increase stormwater runoff to surrounding ground water and surface waters during construction, when sedimentation is increased. However, because this project does not require a large increase in impervious surfaces, it is likely to have a negligible effect on stormwater quantity or quality. BMPs would be utilized to mitigate any effects.

# Solid Waste

Implementation of the Proposed Action is not likely to generate a significant amount of waste during construction or operation. Any waste generated by contractor should be disposed of by the contractor at a permitted facility off installation, which would have no impact on solid waste disposal program.

# Communications

Communications would not be impacted by the Proposed Action.

# Electricity and Gas

The Proposed Action would require the relocation of one underground electrical line. ODUS would coordinate this work with Dominion Resources. Natural gas service would not be impacted by the Proposed Action.



#### 3.13 Hazardous Materials

#### 3.13.1 Affected Environment

All Hazardous Materials (HMs) must be registered with the HazMart IAW JBLE-I 32-101, Environmental Management prior to being brought onto or used on JBLE-FE.

JBLE-FE generates a variety of Hazardous Wastes (HWs) and is regulated as a Large Quantity Generator (LQG). These hazardous wastes are managed at the Installation Hazardous Waste Accumulation Facility (HWAF). All HWs generated on JBLE-FE must be managed with IAW JBLE-I 32-101 and coordination must be made with the HWAF.

The Department of Defense established the Installation Restoration Program (IRP) in 1975 to provide guidance and funding for the investigation and remediation of hazardous waste sites caused by historical activities at military installations. The fundamental goal of the JBLE-FE IRP is to protect human health, safety and the environment. The IRP is carried out in accordance with all federal, state, and local laws. The primary federal laws are Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Superfund Amendments and Reauthorization Act (SARA).

The 2008 Fort Eustis Virginia, Army Defense Environmental Restoration Program Installation Action *Plan* identifies the types and suspected sources of contamination on the installation and provides a cleanup strategy for each site. The only IRP site near the Proposed Action is Landfill 15. This inactive facility operated on JBLE-FE from 1972 until 1988. It is adjacent to the access road near the southeastern project terminus. During its operation, the landfill reportedly received hazardous waste consisting of domestic trash, sewage, sludge, incinerator ash and grease. The landfill was capped in 1988 and re-vegetated. DEQ considers the landfill closed and revoked its permit in 2007, yet annual maintenance of the cap (mowing, over-seeding, erosion control) will continue throughout the life of the closed landfill.

A Phase I Environmental Site Assessment was conducted on the private property that is part of the Proposed Action. As part of the assessment, a search of Federal and State hazardous materials databases was conducted for the project site and surrounding vicinity. The search indicated that Icelandic USA Inc. (High Liner Foods) is listed in the TIER 2 database for ammonia (anhydrous), CO<sub>2</sub> and chlorine storage onsite, and is in the Resource Conservation and Recovery Act Non-Generator (RCRA-Non-Gen) and Facility Index System (FINDS) databases. In addition to the project site, the search identified three industrial facilities along Enterprise Drive that were included in the following databases: two in RCRA-Non Gen, two in RCRA-Conditionally Exempt Small Quantity Generator, one in RCRA-LQG, and three in FINDS.

#### 3.13.2 Environmental Consequences

Less than one acre of land would be disturbed as a result of the Proposed Action. Excavation depths would be limited to eight feet. Given the minimal anticipated ground disturbance from the Proposed Action, hazardous materials impacts are not anticipated. However, there is a potential that contaminated groundwater has migrated from Landfill 15 to the subsurface of the project site. While unlikely, ODUS would develop a plan to address groundwater contamination if it is encountered.



Construction activities would include the use of hazardous materials and could generate hazardous waste (i.e., solvents, oil). Accidents could result in leaking or spillage of hazardous materials or hazardous waste. Therefore the project has the potential to result in adverse impacts to the environment. The intensity and duration of any impacts would vary greatly depending on the substances involved and conditions of the accident. With implementation of safety measures and proper procedures for the handling, storage, and disposal of hazardous materials and wastes, the potential for adverse impacts would be minimized.

#### 3.14 Environmental Justice

In February 1994, President Clinton signed EO 12898, *Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations*. This EO directs each federal agency to "make achieving environmental justice part of its mission by identifying and addressing, as appropriate disproportionately high and adverse human health or environmental effects of programs, policies, and activities on minority populations and low income populations in the United States". The goal of this order is to avoid the disproportionate placement of adverse environmental, economic, social, or health impacts from Federal actions and policies on minority and low-income populations due to implementation of a Proposed Action.

As defined by *Environmental Justice Guidance Under NEPA* (CEQ, 1997), "minority populations" include persons who identify themselves as Asian or Pacific Islander, Native American or Alaskan Native, black (not of Hispanic origin), or Hispanic. A minority population exists where the percentage of minorities in an affected area either exceeds 50 percent or is meaningfully greater than in the general population. Low-income populations are identified using the Census Bureau's statistical poverty threshold, which is based on income and family size.

The 2011 federal poverty guidelines (based and Health and Human Services thresholds) define the poverty level as an annual income of \$10,890 or less for an individual, and \$22,350 or less for a family of four. **Table 3.10** shows environmental justice statistics for Virginia, Newport News, and the study area. The median household income data are from 2011, while the remaining data are from 2010.

|   | Geography               |                         |                 |          |  |
|---|-------------------------|-------------------------|-----------------|----------|--|
| Characteristic                                  | Block Group<br>032300-3 | Block Group<br>032400-2 | Newport<br>News | Virginia |  |
| Estimated 2011 Median<br>Household Income       | \$46,875                | \$53,621                | \$50,942        | \$63,302 |  |
| Income Below Poverty<br>Level in Past 12 Months | 17.8%                   | 10.7%                   | 13.5%           | 10.3%    |  |
| Minority Population                             | 35.0%                   | 48.1%                   | 51.0%           | 31.4%    |  |
| Hispanic Population                             | 15.4%                   | 10.9%                   | 8.2%            | 8.3%     |  |

# Table 3.10: 2010 Housing Units and Median Household Income

Source: American Community Survey, 2010 and 2011



According to 2010 American Community Survey (ACS) data, minorities comprised 38.4 percent of the ROI's population, which is less than the Newport News minority population of 51.0 percent, but greater than Virginia's minority population (31.4 percent). Hispanics comprise 14.2 percent of the population in the ROI, compared to 8.2 percent in Newport News and 8.3 percent in Virginia. ACS data for 2011 indicate a ROI poverty level of 14.6 percent, higher than both the Newport News and Virginia rates (13.5 and 10.3 percent, respectively).

Because the Preferred Alternative is not within a residential community and it would not influence access to employment opportunities, transportation facilities, or utilities, the Proposed Action would not result in disproportionate and adverse effects to minority or low-income populations.



# 4.0 CONCLUSION

The Proposed Action consists of the construction of a new alternate water supply system for JBLE-FE, including a meter vault, backflow preventer, water booster station, approximately 2,450 linear feet of buried12-inch pipe, and a crush and run access road for maintenance; approximately 1700 feet long and 12 feet wide. The new alternate water supply system is needed to provide a redundant water source to be used in the case of an outage in the main system.

The No Action Alternative was used as a baseline for comparing impacts of the Build Alternatives. Because it does not meet the purpose and need for the project, however, it was not considered when selecting a Preferred Alternative. A decision matrix was created to compare the effects of two Build Alternatives (with a total of three alignments), and then select a Preferred Alternative. The matrix examined the following: impacts to the public and traffic, property impacts and easements, ease of operations and maintenance, environmental impacts, constructability, utility conflicts, and costs. Based on results of the decision matrix, and due to its shorter length and lack of a river crossing, Alternative 2 in the Oakland Industrial Park was selected as the Preferred Alternative. It yielded the highest score in the decision matrix and would create the fewest adverse effects to natural resources, including wetland ecosystems, mature forests, and a variety of plant and animal species.

The Preferred Alternative meets the project's purpose and need by providing the alternate water supply system needed for redundancy in the case of an outage in the main system.

The Proposed Action would not displace any residences or businesses, and would not impact any historic resources. There would be no Environmental Justice concerns. Impacts from generation of hazardous waste or solid waste, and utilities in the project area are expected to be minimal. **Table 4.1** quantifies the impacts that would result from implementation of the Proposed Action. A total of 1.18 acres of land would be disturbed; 0.81 acres of this is forested land that would be eliminated. The Proposed Action would require 0.50 acres of permanent easements. There would be no floodplain impacts, but 0.003 acres of PEM wetlands would be permanently impacted. A permit will be secured from USACE and DEQ for all wetland impacts.

|                     | Impact (Acres) |                     |                     |
|---------------------|----------------|---------------------|---------------------|
| Impact Category     | Total          | Private<br>Property | JBLE-FE<br>Property |
| Land Disturbance    | 1.18           | 0.50                | 0.68                |
| Forested Land       | 0.81           | 0.50                | 0.31                |
| Permanent Easements | 0.50           | 0.50                | 0                   |
| Impervious Surface  | 0.52           | 0.30                | 0.22                |
| Wetlands            | 0.003          | 0.003               | 0                   |

# Table 4.1: JBLE-FE Alternate Water Supply System Impact Summary



Minor short-term impacts, primarily from construction activities, are anticipated to occur to air quality, noise levels, aesthetics and visual quality, geology and soils, biological resources, and traffic. Short-term beneficial effects on socioeconomics are likely, due to the potential employment of local workers during construction.

No significant adverse effects resulting from implementation of the Proposed Action have been identified. All agency coordination and permitting requirements would be completed prior to construction of the project. Mitigation measures associated with the Proposed Action include a variety of BMPs to be implemented both during and after construction to avoid and minimize adverse environmental effects. These include:

- Compliance with a DCR-approved stormwater management plan and erosion and sediment control plan, using stormwater management and erosion control BMPs required by DCR.
- Use of tree preservation measures. Fencing would be incorporated into construction plans in order to protect all trees outside the intended area of disturbance.
- Securing a Clean Water Act Section 404 permit from the USACE and a permit from DEQ, pursuant to Virginia's State Water Control Law and its Nontidal Wetlands Act. Any required mitigation measures in the permit would be implemented.
- Treating all construction equipment in a manner that would minimize the spread of invasive species.
- Compliance with all applicable federal, state, and local air regulations.
- Compliance with Virginia's Coastal Zone Management Program and EO 13508.
- Conducting construction activities during normal weekday work hours (generally 7 a.m. to 5 p.m.) and avoiding conducting construction activities on evenings and weekends to the extent practical.
- Preserving natural areas where possible and using non-invasive vegetation to stabilize soil.

Based on the evaluation of environmental consequences of the proposed action discussed in this EA, an Environmental Impact Statement (EIS) is not necessary and a FNSI would be prepared.



# 5.0 **REFERENCES**

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# 6.0 PERSONS CONSULTED

Mr. Steve Bloodgood High Liner Foods

**Timothy P. Christensen, MS, CHMM** Chief, Conservation Branch Environmental Element Civil Engineer Division

James Dolan, CWB Wildlife Biologist Environmental Element Civil Engineer Division 733 Mission Support Group

Jeffrey P. Kapinos, P.E Civil Engineer

Mr. Jim Kelly NNS&DDCo

**Mr. Peter Kube** US Army Corps of Engineers, Norfolk District

**Ms. Cindy Schulz** US Department of the Interior, Fish and Wildlife Service

**Ms. Ellie Irons** Virginia Department of Environmental Quality **Mr. Kilby Majette** Natural Resources Conservation Service, Quinton Service Center

**Ms. Sheila W. McAllister** City of Newport News Planning Director

**Christopher L. McDaid** Cultural Resources Manager Environmental Element Civil Engineer Division 733d Mission Support Group

**Mr. Neil A. Morgan** City of Newport News City Manager

**Mr. Brian L. Ramaley** City of Newport News Waterworks Director

**Ms. Kathleen Kilpatrick, SHPO** Virginia Department of Historic Resources

**Ms. Barbara Rudnick** US Environmental Protection Agency, Region III, Environmental Programs Branch



# 7.0 DISTRIBUTION LIST

#### 7.1 State and Federal Agencies

Ms. Cindy Schulz US Department of the Interior, Fish and Wildlife Service 6669 Short Lane Gloucester, VA 23061

Ms. Kathleen Kilpatrick SHPO Virginia Department of Historic Resources 2801 Kensington Avenue Richmond, VA 23221

Ms. Sheila W. McAllister City of Newport News Planning Director 2400 Washington Avenue Newport News, VA 23607

Ms. Ellie Irons Virginia Department of Environmental Quality 629 East Main Street, 8th Floor Richmond, VA 23219

#### 7.2 Libraries

Groninger Library BLDG 1313 Fort Eustis, VA 23604

Grissom Public Library 366 DeShazor Drive Newport News, VA 23606

Christopher Newport University Library 1 University Place Newport News, VA 23606

#### 7.3 Newspapers

Daily Press 7505 Warwick Blvd., Newport News, VA 23607



Appendix A – Agency Correspondence





June 6, 2013

Ms. Barbara Rudnick NEPA Team Lead US Environmental Protection Agency, Region III, Environmental Programs Branch Mail Code 3EA30 1650 Arch Street Philadelphia, PA 19103

#### Re: Alternative Water Source, Joint Base Langley-Eustis Alternative

Dear Ms. Rudnick,

On behalf of Joint Base Langley-Eustis (JBLE) (point of contact: Mr. Timothy Christensien, Chief, Conservation Branch Environmental Element [Timothy.P.Christensen.civ@mail.mil, 757-878-4231]), Whitman, Requardt and Associates (WR&A) would like to thank you for porviding input on the above referenced project's Environmental Assessment (EA). WR&A is providing the following responses to address your comments/questions (EPA memo attached).

- A scoping letter was sent to your office in January, 2013. However we have no record of receipt of a response.
- High Liner Foods Inc. is the owner of the private property on which a portion of the alternate water supply system would be located. A sentence referencing coordination with the private owner has been added (pages 6, and 13).
- Exhibit 3 (page 12) has been updated to include the identification of the newly constructed TEMF (referenced on page 18).
- Removed "protective" from vegetation discussion and added the following footnote on depth of soil disturbance (page 19): "Typical depth of installation is 3 ft. of cover with a 1 ft. pipe and 6 inches of stone bedding (about 5 ft). Pipeline and booster station installation does not exceed 8 ft."
- Added the following footnote on the definition of "Impact Area" (page 20): "The Munitions and Explosives of Concern Hazard Assessment (MEC HA) defines a target area as "Areas at which munitions fire was directed." Those areas within the designated range boundaries which could be used as a target area or which could reasonably be used as a munitions fire area. With the exception of the range safety fans all areas within the designated range limit would be considered impact areas."
- Size of wetlands are stated in Table 3.8 (page 23).
  - o no indirect impacts are anticipated
  - an alignment shift is not possible due to future expansion plans of the property owner, the current alignment will utilize a 20 foot easement strip that is the only amenable option
- Specific aquatic life associated with the perennial stream noted on page 22 is not known. However, the stream will be avoided and therefore no direct impacts are anticipated. Indirect impacts are also not anticipated due to the nature of the project.
- The EA has been updated to include EO 13508 discussion (page 22, 24, 35)
- Regarding the possibility of testing groundwater near the Landfill 15 site, a review of the sites history found no seepage issues or leachate leaking out and borings completed in January 2012

801 South Caroline Street, Baltimore, Maryland 21231 www.wrallp.com Phone: 410.235.3450 Fax: 410.243.5716

Recipient Company

indicated static water at 7 feet (after 24 hours) for the one closest to the landfill. Therefore, no ground water testing is planned.

Very truly yours,

Whitman, Requardt & Associates, LLP

n

Nicholas Nies Senior Environmental Planner

Enclosures

cc: Timothy P. Christensen, Chief, Conservation Branch-Environmental Element

801 South Caroline Street, Baltimore, Maryland 21231 www.wrallp.com Phone: 410.235.3450 Fax: 410.243.5716

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III 1650 Arch Street Philadelphia, Pennsylvania 19103-2029

SUBJECT: Joint Base Langley-Eustis Alternative Water Supply System EA

FROM: Karen DelGrosso, NEPA Reviewer for Federal Facilities

TO: Barbara Rudnick, NEPA Team Leader

As requested, I gave a quick review to the subject EA and have the following comments/questions as highlighted in bold.

Page 6, "Coordination with Federal and State agencies to solicit comments related to their corresponding areas of jurisdiction, and to obtain concurrence with the initial findings for the Proposed Action, was initiated in January 2013. Agencies contacted include the US Fish and Wildlife Service (USFWS), US Army Corps of Engineers (USACE), US Environmental Protection Agency (EPA),...." It is important to note that there was no interaction with the EPA other than a phone call made on or near 5/1/13 asking for a quick review of the existing EA.

Page 13, "The Preferred Alternative would span approximately 2,450 feet, with approximately 1,350 feet on JBLE-FE, and the remaining 1,100 feet on adjacent private property." Who owns the private property? Has there been involvement with and approval of private property owners?

Page 18, "The access road would be 12 feet wide, spanning the length of the project. While the road itself would be a new visual element, the surrounding forest would be left intact, largely hiding the road from view. The proposed water booster station would be adjacent to the newly-constructed Tactical Equipment Maintenance Facility (TEMP), and would not change the visual character of the area." Indicate on map the proposed water booster station near the newly-constructed TEMF.

Page 19, "Installation of the pipe and construction of the maintenance access road and water booster station would involve the removal of protective vegetation and disturbance of soils to the depth required for installation or construction." Explain, describe and quantify protective vegetation impacted. The approximate depth of soil disturbance should be stated in the EA. Page 31 states, "Excavation depths would be limited to eight feet." Is this the maximum depth of disturbance? Page 20, "Nearly 100% of the Installation has been delineated by the US Army Corps of Engineers Norfolk District excluding most of the impact area which is not associated with the Proposed Action." Please explain "impact area" referenced in relation to the Proposed Action and include map of area.

Page 20 states, "Two wetlands were identified on the private land within the limits of the Proposed Action. Both were Palustrine Emergent (PEM), with the vegetation dominated by cattails (Typha latifolia), soft rush (Juncus effuses), and woolgrass (Scirpus cyperinus). Four Palustrine Forested (PFO) wetlands were found on the JBLE-FE land within or near the limits of the Proposed Action. The dominant wetland vegetation on this part of the base includes cherrybark oak (Quercus paqoda), green ash (Fraxinus Pennsylvania), chain fern (Woodwardia spp.), and soft rush. No impacts to wetlands on the installation are expected based on avoidance. Wetlands located within or near the limits of the Proposed Action are shown on Figure 4." What is the size of the wetlands? Describe indirect impacts to wetlands. Figure 4 indicates a direct impact to Wetland 2 and possibly Wetland 1 (on private land). It appears from the map that forested land is to the left of Wetlands 1 and Can the alignment be moved to the left to avoid impact to 2. wetlands?

Page 22, "However, a perennial stream is located immediately adjacent to the study area within Training Area 2. The perennial stream runs beside and under (through a culvert system) the Proposed Action's route along the main Training Area 2 Maneuver Trail. There will be no direct impact to the perennial stream in terms of mechanical alteration however; proper erosion and sediment control and spill prevention measures will be part of any permit from DCR." Please provide information on the condition of the perennial stream, aquatic life in the stream and potential indirect impacts to the stream as a result of the Proposed Action.

Page 22, "The study area is entirely within Virginia's Coastal Zone Management (CZM) Program area, which includes the Chesapeake Bay." The EA did not address EO 13508 Chesapeake Bay Watershed.

Page 30, "The only IRP site near the Proposed Action is Landfill 15." This inactive facility is adjacent to the access road. The landfill was capped in 1988 and re-vegetated; DEQ considers the landfill closed and revoked its permit in 2007. Page 31 states, "... there is a potential that contaminated groundwater has migrated from Landfill 15 to the subsurface of the project site. While unlikely, ODUS would develop a plan to address groundwater contamination if it is encountered." Can groundwater be tested prior to excavation to determine the condition of the site?



#### DEPARTMENT OF THE ARMY NORFOLK DISTRICT, CORPS OF ENGINEERS FORT NORFOLK, 803 FRONT STREET NORFOLK, VIRGINIA 23510-1096

REPLY TO ATTENTION OF

May 8, 2013

#### PRELIMINARY JURISDICTIONAL DETERMINATION

Southern Virginia Regulatory Section (NAO-2013-00463, Skiffs Creek)

Whitman, Requardt & Associates, LLP Mr. David Kwasniewski 9030 Stony Point Parkway, Suite 220 Richmond, Virginia 23235

Dear Mr. Kwasniewski:

This letter is in regard to your request for a preliminary jurisdictional determination for waters of the U.S. (including wetlands) within the project study area for the proposed Joint Base Langley-Eustis alternate water source off Enterprise Drive in Newport News, Virginia.

The drawing entitled "Fort Eustis Alternate Water Source" dated January 10, 2013 and submitted on March 6, 2013 by WR&A provides the locations of waters and/or wetlands on the property listed above. The basis for this delineation includes application of the Corps' 1987 Wetland Delineation Manual and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region and the positive indicators of wetland hydrology, hydric soils, and hydrophytic vegetation and the presence of an ordinary high water mark.

No permit will be required from the Corps of Engineers for the proposed work shown on sheets 1 through 40 of the drawings entitled "Old Dominion Utility Services Alternate Water Supply Line and Booster Station, Fort Eustis" dated February 2013 by WR&A. Please coordinate the proposed work with the Department of Environmental Quality.

The Norfolk District has relied on the information and data provided by the applicant or agent. If such information and data subsequently prove to be materially false or materially incomplete, this verification may be suspended or revoked, in whole or in part, and/or the Government may institute appropriate legal proceedings.

Discharges of dredged or fill material, including those associated with mechanized landclearing, into waters and/or wetlands on this site may require a Department of the Army permit and authorization by state and local authorities including a Virginia Water Protection Permit from the Virginia Department of Environmental Quality (DEQ), a permit from the Virginia Marine Resources Commission (VMRC) and/or a permit from your local wetlands board. This letter is a confirmation of the Corps preliminary jurisdiction for the waters and/or

wetlands on the subject property and does not authorize any work in these areas. Please obtain all required permits before starting work in the delineated waters/wetland areas.

This is a preliminary jurisdictional determination and is therefore not a legally binding determination regarding whether Corps jurisdiction applies to the waters or wetlands in question. Accordingly, you may either consent to jurisdiction as set out in this preliminary jurisdictional determination and the attachments hereto if you agree with the determination, or you may request and obtain an approved jurisdictional determination. This preliminary jurisdictional determination and associated wetland delineation map may be submitted with a permit application.

The "Preliminary Jurisdictional Determination Form" is enclosed. Please review the document, sign, and return a copy to the Corps Regulatory Office (Melissa Nash, 803 Front St. Norfolk, VA 23510) within 30 days of receipt and keep a copy for your records. This delineation of waters and/or wetlands is valid for a period of five years from the date of this letter unless new information warrants revision prior to the expiration date.

If you have any questions, please contact Melissa Nash at 757-201-7489 or melissa.a.nash@usace.army.mil.

Sincerely,

Meless a Nach

Lynette R. Rhodes Chief, Southern Virginia Regulatory Section

Enclosure:

Preliminary Jurisdictional Determination Form

#### PRELIMINARY JURISDICTIONAL DETERMINATION FORM

#### BACKGROUND INFORMATION:

A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD): March 4, 2013

#### B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:

Joint Base Langley-Eustis c/o Whitman, Requardt & Associates, LLP Mr. David Kwasniewski 9030 Stony Point Parkway, Suite 220

#### C. DISTRICT OFFICE: Norfolk District (CENAO-REG)

FILE NAME: Joint Base Langley - Eustis Alternate Water Supply

FILE NUMBER: NAO-2013-00463

#### D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION: (USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)

State: VIRGINIA County/parish/borough: City: Newport News

Center coordinates of site (lat/long in degree decimal format):

Latitude: 37.10471 °N Longitude: -76.51973 °W

Universal Transverse Mercator:

Name of nearest waterbody: Skiffs Creek

Identify (estimate) amount of waters in the review area:

Non-wetland waters: linear feet; width (ft); and/or acres.

Cowardin Class:

Stream Flow:

Wetlands: 0.005 acres

Cowardin Class: PEM

Name of any water bodies on the site that have been identified as Section 10 waters:

Tidal: Skiffs Creek

Non-Tidal:

#### E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:

Field Determination. Date(s): May 1, 2013

- The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.
- 2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization: (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable.
- 3. This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

#### SUPPORTING DATA:

- Data reviewed for preliminary JD (check all that apply) checked items should be included in case file and, where checked and requested, appropriately reference sources below.
  - Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Exhibit entitled "Fort Eustis Alternate Water Source" dated January 10, 2013 and submitted on March 6, 2013 by WR&A

|                            | Data sheets prepared/submitted by or on behalf of the applicant/consultant.  |  |  |  |  |  |
|----------------------------|--|--|--|--|--|--|
|                            | Solution Content State State (Content in the second state of the s |  |  |  |  |  |
|                            | Office does not concur with data sheets/delineation report.  |  |  |  |  |  |
|                            | Data sheets prepared by the Corps:   |  |  |  |  |  |
|                            | Corps navigable waters' study:   |  |  |  |  |  |
|                            | U.S. Geological Survey Hydrologic Atlas:   |  |  |  |  |  |
|                            | USGS NHD data.   |  |  |  |  |  |
|                            | USGS 8 and 12 digit HUC maps.  |  |  |  |  |  |
|                            | I.S. Geological Survey map(s). Cite scale & quad name: Yorktown Quad   |  |  |  |  |  |
|                            | ISDA Natural Resources Conservation Service Soil Survey.   |  |  |  |  |  |
|                            | Citation: SSURGO Soils Newport News  |  |  |  |  |  |
|                            | X National wetlands inventory map(s). Cite name: Yorktown Quad   |  |  |  |  |  |
|                            | State/Local wetland inventory map(s):  |  |  |  |  |  |
|                            | FEMA/FIRM maps: Chuckatuck Quad  |  |  |  |  |  |
|                            | 100-year Floodplain Elevation: (National Geodetic Vertical Datum of 1929)  |  |  |  |  |  |
|                            | Photographs: Aerial (Name & Date): 1990 Color IR; Kucera photo   |  |  |  |  |  |
|                            | or Other (Name & Date):  |  |  |  |  |  |
| Previous determination(s): |  |  |  |  |  |  |
|                            | File no. and date of response letter:  |  |  |  |  |  |
|                            | Other information (please specify):  |  |  |  |  |  |

# IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Meline G Nash Signature

Regulatory Project Manager (REQUIRED)

May 8, 2013

Date

Signature of person requesting Preliminary JD (REQUIRED, unless obtaining the signature is impracticable)

Date

# SAMPLE

| Latitude                                    | Longitude | Cowardin<br>Class  | Estimated<br>amount of<br>aquatic resource<br>in review area | Class of<br>aquatic<br>resource                                 |
|---|-----------|--------------------|--|---|
|   |           |                    |  |   |
|   |           |                    |  |   |
|   |           |                    |  | -   |
|   |           |                    |  |   |
| uver et weeken en een de stere een de stere |           |                    |  | en de ministe stat fans d                                       |
|   | Latitude  | Latitude Longitude |  | Latitude Longitude Cowardin amount of<br>Class aquatic resource |

#### Smith, Susan

From: Sent: To: Cc: Subject: Baxter, Amanda Monday, February 25, 2013 11:16 AM Smith, Susan Nies, Nicholas FW: Alternative Water Source, JBLE

From: Albrecht, Edward (VDH) [mailto:Edward.Albrecht@vdh.virginia.gov]
Sent: Monday, February 25, 2013 10:15 AM
To: Baxter, Amanda
Cc: Ellis, Charles (DEQ); Matthews, Barry (VDH)
Subject: Alternative Water Source, JBLE

Location: Joint Base Langley-Eustis Newport News

VDH – Office of Drinking Water has reviewed the above project. ODW comments on the proximity of public drinking sources and potential impacts to those sources considering the scope of the project.

There are 2 groundwater wells within a 1 mile radius: the City of Newport News has two groundwater wells located 2,653 ft away north of the project site.

There is 1 surface water intake in Zone 1 (within a 5 mile radius), the City of Newport News, which is 1.5 miles upgradient of the project site.

There are no apparent impacts and ODW has no additional scoping comments.

Edward Albrecht Virginia Department of Health, Office of Drinking Water 109 Governor Street, Sixth Floor Richmond, VA 23219 (P) 804-864-7495 Edward.Albrecht@vdh.virginia.gov

#### Smith, Susan

From: Sent: To: Cc: Subject: Nash, Melissa A NAO <Melissa.A.Nash@usace.army.mil> Monday, February 11, 2013 11:12 AM Smith, Susan Baxter, Amanda RE: Fort Eustis waterline project scoping (UNCLASSIFIED)

Classification: UNCLASSIFIED Caveats: NONE

Susan,

The proposed project appears to avoid the wetland impacts on the property. I would just recommend strict erosion and sediment control when the work is occurring close to the wetland areas.

Thanks, Melissa

Melissa Nash Norfolk District, Regulatory Branch 803 Front Street Norfolk, VA 23510

-----Original Message-----From: Smith, Susan [mailto:ssmith@wrallp.com] Sent: Wednesday, January 23, 2013 1:04 PM To: Nash, Melissa A NAO Cc: Baxter, Amanda Subject: RE: Fort Eustis waterline project scoping (UNCLASSIFIED)

Hi Melissa,

The standard window for comments is within 30 days of receipt of the request. However, we have a tight deadline on this project, so if you could comment sooner than that I would appreciate it.

Thanks, Susan

-----Original Message-----From: Nash, Melissa A NAO [<u>mailto:Melissa.A.Nash@usace.army.mil</u>] Sent: Tuesday, January 22, 2013 10:33 AM To: Smith, Susan Subject: Fort Eustis waterline project scoping (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Susan,

The project has been assigned to me. I am the point of contact for Fort Eustis. John Evans actually handles Langley. Tim Christensen mentioned this project to me recently. Do you have a deadline for comments?

Melissa (757) 201-7489

---Original Message-----From: Kube, Peter R NAO Sent: Thursday, January 17, 2013 2:44 PM To: Evans, John D NAO; Smith, Susan Subject: FW: Project Scoping, JBLE (UNCLASSIFIED)

Classification: UNCLASSIFIED Caveats: NONE

Hi Susan,

John Evans handles project reviews at Joint Base Langley Eustis. He has been assigned the review of your request.

Thanks.

Peter Kube, Chief Western Virginia Regulatory Section US Army Corps of Engineers 803 Front Street Norfolk, VA 23510

Phone (757) 201-7504

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 <a href="http://per2.nwp.usace.army.mil/survey.html">http://per2.nwp.usace.army.mil/survey.html</a>. We value your comments and appreciate your taking the time to complete the survey.

-----Original Message-----From: Smith, Susan [mailto:ssmith@wrallp.com] Sent: Thursday, January 17, 2013 2:29 PM To: Kube, Peter R NAO Subject: Project Scoping, JBLE Mr. Kube,

Attached please find a scoping letter and map for an alternate water source project on Joint Base Langley Eustis, in Tidewater Virginia. The Preferred Alternative includes construction of a 12-inch water main that will connect to an existing 16 inch water main located in the Oakland Industrial Park. Additionally, the Preferred Alternative includes a short, gravel, access road to allow for maintenance of the water mains. We would appreciate your comments.

Thank you,

Susan L. Smith, WPIT | Senior Environmental Scientist

Whitman, Requardt & Associates, LLP

9030 Stony Point Parkway, Suite 220

Richmond, VA 23235

(Phone) 804.272.8700

(Main Fax) 804.272.8897

ssmith@wrallp.com

www.wrallp.com

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Classification: UNCLASSIFIED Caveats: NONE

#### Smith, Susan

| From:    |  |
|----------|--|
| Sent:    |  |
| To:      |  |
| Cc:      |  |
| Subject: |  |

Baxter, Amanda Monday, January 28, 2013 11:48 AM Smith, Susan Nies, Nicholas; Kwasniewski, David FW: Joint Base Langley Eustis Alternate Water Source Scoping

#### See below...

From: Johnson, Mike (MRC) [mailto:Mike.Johnson@mrc.virginia.gov]
Sent: Monday, January 28, 2013 10:04 AM
To: Baxter, Amanda
Cc: Ellis, Charles (DEQ)
Subject: Joint Base Langley Eustis Alternate Water Source Scoping

Ms. Baxter,

Please be advised that the Commission, pursuant to Section 28.2-1200 et seq of the Code of Virginia, has jurisdiction over any encroachments in, on, or over the beds of the bays, ocean, rivers, streams, or creeks which are the property of the Commonwealth. Accordingly, if any portion of the subject project involves any encroachments channelward of ordinary high water along natural rivers and streams above the fall line or mean low water below the fall line, a permit may be required from our agency. Any jurisdictional impacts will be reviewed by VMRC during the Joint Permit Application process. Thank you for the opportunity to comment.

Mike Johnson Habitat Management Division VMRC 2600 Washington Ave. Newport News, Va 23607 757-247-2255



# COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY Street address: 629 East Main Street, Richmond, Virginia 23219 Mailing address: P.O. Box 1105, Richmond, Virginia 23218 TDD (804) 698-4021 www.deq.virginia.gov

David K. Paylor Director

(804) 698-4000 1-800-592-5482

January 23, 2013

Ms. Amanda J. Baxter Vice-President, Environmental Whitman, Requardt & Associates, LLP 3701 Pender Drive, Suite 450 Fairfax, Virginia 22030

RE: Alternative Water Source, Joint Base Langley-Eustis

Dear Ms. Baxter:

Douglas W. Domenech

Secretary of Natural Resources

Thank you for your January 17, 2013 letter (received via e-mail) regarding the preparation of an Environmental Assessment (EA) pursuant to the National Environmental Policy Act (NEPA) covering a proposed alternative water source for Joint Base Langley-Eustis (JBLE) in Newport News.

#### **PROJECT DESCRIPTION**

As described in your letter, JBLE would construct a 12-inch water main that will connect with an existing 16-inch water main located in the Oakland Industrial Park. In addition, a short gravel access road would be bullt to allow for maintenance of the water mains. This project would provide a redundant water supply point, improving system reliability in the case of an outage in the existing system.

#### ENVIRONMENTAL REVIEW UNDER THE NATIONAL ENVIRONMENTAL POLICY ACT

The roles of the Virginia Department of Environmental Quality (DEQ) in relation to the project are as follows. First, DEQ's Office of Environmental Impact Review (OEIR) will coordinate Virginia's review of the NEPA document and comment to JBLE on behalf of the Commonwealth. A similar review process will pertain to the Federal Consistency Determination (FCD) (see "Federal Consistency..." heading, below). If the FCD is provided as part of the environmental document, there can be a single review.

#### FEDERAL CONSISTENCY UNDER THE COASTAL ZONE MANAGEMENT ACT

Pursuant to the Coastal Zone Management Act of 1972, as amended, federal activities affecting Virginia's coastal resources or coastal uses must be consistent with the Virginia Coastal Zone Management Program (VCP) (see section 307(c)(1) of the Act and the *Federal Consistency Regulations*, 15 CFR Part 930, subpart C, sections 930.30 *et seq.*). JBLE must provide a consistency determination which includes an analysis of the proposed activities in light of the enforceable policies of the VCP (first enclosure) and a commitment to comply with the enforceable policies. In addition, we invite your attention to the advisory policies of the VCP (second enclosure). As indicated, the FCD may be provided as part of the NEPA document or independently, depending on the JBLE's preference. We recommend, in the interests of an effective review, that the FCD be provided with the NEPA document and that at least 60 days be allowed for review, in keeping with the *Federal Consistency Regulations* (see section 930.41(a)). Section 930.39 of these *Regulations*, and Virginia's *Federal Consistency Information Package* (available at

http://www.deq.virginia.gov/Programs/EnvironmentalImpactReview/FederalConsistencyReview s.aspx ) give content requirements for the FCD.

#### PROJECT SCOPING AND AGENCY INVOLVEMENT

While this Office does not participate in scoping efforts beyond the advice given herein, other agencies are free to provide scoping comments concerning the preparation of the NEPA document. Accordingly, we are sharing our response to the letter with selected state and local Virginia agencies which have responsibilities bearing on the subject of the NEPA document. These are likely to include the following (note: starred (\*) agencies administer one or more of the enforceable policies of the VCP):

Department of Environmental Quality:

- o Office of Environmental Impact Review
- Tidewater Regional Office\*
- Division of Air Program Coordination\*
- Division of Land Protection and Revitalization (formerly Waste Division)
   Department of Conservation and Recreation:
  - o Division of Stormwater Management\*
  - Division of Planning and Recreation Resources

Department of Health (Division of Water Programs)\* Department of Game and Inland Fisheries\* Virginia Marine Resources Commission\* Department of Historic Resources Hampton Roads Planning District Commission

City of Newport News.

#### **INFORMATION ON WASTE MATERIALS and OTHER ISSUES**

DEQ and other agencies maintain databases on hazardous materials. We are enclosing a copy of Appendix 10 (see below) of DEQ's most recent Environmental Impact Report Procedure Manual (dated July 2012) that lists databases and indicates their uses and contents. Questions on waste management may be directed to DEQ's Division of Land Protection and Revitalization (Steve Coe at 804-698-4029 or Stephen.Coe@deq.virginia.gov).

DEQ Online Database: Virginia Environmental Geographic Information Systems

Information on Permitted Solid Waste Management Facilities, Impaired Waters, Petroleum Releases, Registered Petroleum Facilities, Permitted Discharge (Virginia Pollution Discharge Elimination System Permits) Facilities, Resource Conservation and Recovery Act (RCRA) Sites, Water Monitoring Stations, National Wetlands Inventory

- www.deq.virginia.gov/ConnectWithDEQ/VEGIS.aspx
- DEQ Permit Expert

Helps determine if a DEQ permit is necessary o www.deg.virginia.gov/permitexpert/

DHR Data Sharing System

Survey records in the DHR inventory o www.dhr.virginia.gov/archives/data\_sharing\_sys.htm

DCR Natural Heritage Search

Produces lists of resources that occur in specific counties, watersheds or physiographic regions

- o www.dcr.virginia.gov/natural\_heritage/dbsearchtool.shtml
- DGIF Fish and Wildlife Information Service

Information about Virginia's Wildlife resources o http://vafwis.org/fwis/

 Environmental Protection Agency (EPA) Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) Database: Superfund Information Systems
Information on hazardous waste sites, potentially hazardous waste sites and remedial activities across the nation, including sites that are on the National Priorities List (NPL) or being considered for the NPL

- o www.epa.gov/superfund/sites/cursites/index.htm
- EPA RCRAInfo Search

Information on hazardous waste facilities

 <u>www.epa.gov/enviro/facts/rcrainfo/search.html</u> EPA Envirofacts Database

EPA Environmental Information, including EPA-Regulated Facilities and Toxics Release Inventory Reports

- www.epa.gov/enviro/index.html
- EPA NEPAssist Database

Facilitates the environmental review process and project planning o http://nepassisttool.epa.gov/nepassist/entry.aspx

In order to ensure an effective coordinated review of environmental documents, OEIR typically require 18 copies. The submission may include 3 hard copies and 15 CDs or 3 hard copies and an electronic copy available for download at a website, file transfer protocol site or the VITAShare file transfer system (*https://vitashare.vita.virginia.gov*). The document should include a U.S. Geological Survey topographic map as part of its information. We recommend, as well, that project details unfamiliar to people outside the Army and Air Force be adequately described.

If you have questions about the environmental review process or the federal consistency review process, please feel free to call me at (804) 698-4325 or Charlie Ellis at (804) 698-4195.

I hope this information is helpful to you.

Sincerely,

Ellie JS

Ellie L. Irons, Program Manager Environmental Impact Review

Attachments

ec: Cindy Keltner, DEQ-TRO Kotur S. Narasimhan, DEQ-DAPC G. Stephen Coe, DEQ-DLPR Roberta Rhur, DCR Amy M. Ewing, DGIF Barry Mathews, VDH Roger W. Kirchen, DHR Tony Watkinson, VMRC John Carlock, Hampton Roads PDC

cc. Sheila McAllister, City of Newport News

# Smith, Susan

From: Sent: To: Subject: Attachments: Smith, Susan Friday, January 18, 2013 2:40 PM Baxter, Amanda FW: Project Scoping, JBLE 20120413\_letter directing to website.pdf

Amanda,

I'm taking care of this.

From: Troy Andersen [mailto:troy andersen@fws.gov] Sent: Thursday, January 17, 2013 3:58 PM To: Baxter, Amanda Cc: Smith, Susan; Christensen, Timothy P CIV (US) Subject: RE: Project Scoping, JBLE

Ms. Baxter:

To provide you with more timely information, we have developed an online project review process for Service Trust Resources (See attached letter). The process is accessible

at: <u>http://www.fws.gov/northeast/virginiafield/endspecies/Project\_Reviews\_Introduction.html</u>. It will allow you to evaluate your project for potential Trust Resource habitat, and if the project will have no effect on Trust Resources, you will be able to self-certify and receive a letter from the Service to this effect. If your project may affect listed species, going through the process will help you develop a project review package that will allow us to expedite our review of the project. Please use this process for this and all future project reviews.

The attached letter is currently being updated and I serve as the primary point of contact vice Kim Smith listed in the letter.

V/R Troy

Troy M. Andersen Endangered Species/Conservation Planning Assistance Supervisor

USFWS – Virginia Field Office Phone: 804-693-6694 Ext. 166 Mobile: 804-654-9235 Visit us at: <u>http://www.fws.gov/northeast/virginiafield/</u>

From: Smith, Susan [mailto:<u>ssmith@wrallp.com]</u> Sent: Thursday, January 17, 2013 3:08 PM To: <u>cindy schulz@fws.gov</u> Subject: Project Scoping, JBLE

Ms. Schulz,

Attached please find a scoping letter and map for an alternate water source project on Joint Base Langley Eustis, in Tidewater Virginia. The Preferred Alternative includes construction of a 12-inch water main that will connect to an existing 16 inch water main located in the Oakland Industrial Park. Additionally, the Preferred Alternative includes a short, gravel, access road to allow for maintenance of the water mains. We would appreciate your comments.

Thank you,

Susan L. Smith, WPIT | Senior Environmental Scientist

### Whitman, Requardt & Associates, LLP

9030 Stony Point Parkway, Suite 220 Richmond, VA 23235 (Phone) 804.272.8700 (Main Fax) 804.272.8897 <u>ssmith@wrallp.com</u> <u>www.wrallp.com</u>

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# United States Department of the Interior



FISH AND WILDLIFE SERVICE Ecological Services 6669 Short Lane Gloucester, Virginia 23061

# APR 1 3 2012

Greetings:

Due to increases in workload and refinement of our priorities in Virginia, this office will no longer provide individual responses to requests for environmental reviews. However, we want to ensure that U.S. Fish and Wildlife Service trust resources continue to be conserved. When that is not possible, we want to ensure that impacts to these important natural resources are minimized and appropriate permits are applied for and received. We have developed a website, <a href="http://www.fws.gov/northeast/virginiafield/endspecies/Project\_Reviews\_Introduction.html">http://www.fws.gov/northeast/virginiafield/endspecies/Project\_Reviews\_Introduction.html</a>, that provides the steps and information necessary to allow landowners, applicants, consultants, agency personnel, and any other individual or entity requiring review/approval of their project to complete a review and come to the appropriate conclusion.

The website will be frequently updated to provide new species/trust resource information and methods to review projects, so refer to the website for each project review to ensure that current information is utilized.

If you have any questions about project reviews or need assistance, please contact Kimberly Smith of this office at (804) 693-6694, extension 124, or kimberly\_smith @fws.gov. For problems with the website, please contact Mike Drummond of this office at mike\_drummond@fws.gov.

Sincerely,

Cindy Schulz

Supervisor Virginia Field Office



#### DEPARTMENT OF THE AIR FORCE HEADQUARTERS, 733D MISSION SUPPORT GROUP JOINT BASE LANGLEY-EUSTIS FORT EUSTIS, VIRGINIA

JAN 04 2013

**Civil Engineering Division** 

Mr. Marc Holma Review and Compliance Virginia Department of Historic Resources 2801 Kensington Avenue Richmond, Virginia 23221

Dear Mr. Holma,

The US Air Force proposes to construct an alternate water source pipeline for Joint Base Langley-Eustis (JBLE). The project area for the pipeline is located in Training Area 2 of Fort Eustis and also on the privately owned Oakland Industrial Park. The portion of the project area within the boundary of JBLE is located in forested uplands in Training Area 2 bordered to the south by a gravel road and to the north by the installation boundary. The project area corresponds to the immediate vicinity of the proposed water line alignment and covers approximately 2.45 acres (0.99 ha). The portion of the project area on the Oakland Industrial Park was subject to archaeological survey prior to the development of the property. No archaeological sites were identified within the current project area.

The cultural resources staff at Joint Base Langley-Eustis-Eustis conducted a Phase I archaeological survey of the portion of the proposed Alternate Water Source project area which fell within installation boundaries on October 23-25 and November 29, 2012 (see report). The results of the archaeological survey of the Alternate Water Source project area indicate that no archaeological sites and four locations are located within the project area. By definition, Locations 1-4 are not eligible for the National Register of Historic Places. In addition, no historic buildings are present in the project area. Therefore, the Air Force has determined that no historic properties are present in the project area. The portion of the project area on the Oakland Industrial Park was subject to archaeological survey prior to the development of the property. No archaeological sites were identified within the current project area prior to the construction of the Industrial Park.

Therefore, the Air Force has determined that there are no historic properties in the area of potential effects for this undertaking. We request that you review this determination and forward your comments within 30 days. If you do not comment within 30 days, we will assume you agree with the Air Force's determination of no historic properties adversely affected by this undertaking and will proceed without taking further steps in the Section 106 process.

If you have any questions, please contact Christopher L. McDaid at (757) 878-4123 ext 295 or email christopher.l.mcdaid.civ@mail.mil.

Sincerely,

mour P. Mule,

Susan P. Miller Chief, Environmental Element

Enclosures

2

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The VDHR coacues with the Air Porce's determination of no historic properties in the APB of the Alternate Water Source Pipeline project

Project Reference: FE 2012.023: Alternate Water Source Pipeline project

Ohlander 23 Jan 13 Signature/Date DHR# 2013-0064



January 17, 2013

Ms. Ellie Irons Virginia Department of Environmental Quality 629 East Main Street, 8th Floor Richmond, VA 23219

Re: Alternative Water Source, Joint Base Langley-Eustis City of Newport News

Dear Ms. Irons:

On behalf of Joint Base Langley-Eustis (JBLE) (point of contact: Mr. Timothy Christensien, Chief, Conservation Branch Environmental Element [Timothy.P.Christensen.civ@mail.mil, 757-878-4231]), Whitman, Requardt and Associates is preparing an Environmental Assessment (EA) in accordance with Air Force policies implementing the National Environmental Policy Act (NEPA) 32 CFR Part 989 for a proposed alternate water source for JBLE in the Tidewater area of Newport News, Virginia. The Preferred Alternative includes construction of a 12-inch water main that will connect to an existing 16 inch water main located in the Oakland Industrial Park. Additionally, the Preferred Alternative includes a short, gravel, access road to allow for maintenance of the water mains. The attached map depicts the location of the Preferred Alternative.

The current system is expected to remain operational for only 22 hours if there is a water main break or if maintenance is required. The proposed project would provide a redundant water supply point, improving system reliability in the case of an outage in the existing system. The study will evaluate the potential effects of the proposed project on natural, cultural, and human resources.

The purpose of this letter is to request your input in the identification of environmental resources and/or potential environmental constraints and other relevant factors associated with the Preferred Alternative. Specifically we are requesting any information or records regarding environmental issues within the project area. In addition, any comments or concerns you have regarding the proposed project would be greatly appreciated. Additionally, per the Department of Environmental Quality Environmental Impact Review process for federal projects, please distribute this scoping letter to the appropriate state agencies.

Very truly yours,

Whitman, Requardt & Associates, LLP

Amanda J. Baxter Vice President - Environmental

Enclosures cc: Timothy P. Christensen, Chief, Conservation Branch-Environmental Element



Ms. Barbara Rudnick US Environmental Protection Agency, Region III, Environmental Programs Branch Mail Code 3EA30 1650 Arch Street Philadelphia, PA 19103

Re: Alternative Water Source, Joint Base Langley-Eustis City of Newport News

Dear Ms. Rudnick:

On behalf of Joint Base Langley-Eustis (JBLE) (point of contact: Mr. Timothy Christensien, Chief, Conservation Branch Environmental Element [Timothy.P.Christensen.civ@mail.mil, 757-878-4231]), Whitman, Requardt and Associates is preparing an Environmental Assessment (EA) in accordance with Air Force policies implementing the National Environmental Policy Act (NEPA) 32 CFR Part 989 for a proposed alternate water source for JBLE in the Tidewater area of Newport News, Virginia. The Preferred Alternative includes construction of a 12-inch water main that will connect to an existing 16 inch water main located in the Oakland Industrial Park. Additionally, the Preferred Alternative includes a short, gravel, access road to allow for maintenance of the water mains. The attached map depicts the location of the Preferred Alternative.

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Very truly yours,

Whitman, Requardt & Associates, LLP

Amanda J. Baxter Vice President - Environmental

Enclosures cc: Timothy P. Christensen, Chief, Conservation Branch-Environmental Element



Mr. Steve Bloodgood High Liner Foods 190 Enterprise Drive Newport News, VA 23603

Re: Alternative Water Source, Joint Base Langley-Eustis City of Newport News

Dear Mr. Bloodgood:

On behalf of Joint Base Langley-Eustis (JBLE) (point of contact: Mr. Timothy Christensien, Chief, Conservation Branch Environmental Element [Timothy.P.Christensen.civ@mail.mil, 757-878-4231]), Whitman, Requardt and Associates is preparing an Environmental Assessment (EA) in accordance with Air Force policies implementing the National Environmental Policy Act (NEPA) 32 CFR Part 989 for a proposed alternate water source for JBLE in the Tidewater area of Newport News, Virginia. The Preferred Alternative includes construction of a 12-inch water main that will connect to an existing 16 inch water main located in the Oakland Industrial Park. Additionally, the Preferred Alternative includes a short, gravel, access road to allow for maintenance of the water mains. The attached map depicts the location of the Preferred Alternative.

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Very truly yours,

Whitman, Requardt & Associates, LLP

Amanda J. Baxter Vice President - Environmental

Enclosures cc: Timothy P. Christensen, Chief, Conservation Branch-Environmental Element



Mr. Neil A. Morgan City of Newport News City Manager 2400 Washington Avenue Newport News, VA 23607

Re: Alternative Water Source, Joint Base Langley-Eustis City of Newport News

# Dear Mr. Morgan:

On behalf of Joint Base Langley-Eustis (JBLE) (point of contact: Mr. Timothy Christensien, Chief, Conservation Branch Environmental Element [Timothy.P.Christensen.civ@mail.mil, 757-878-4231]), Whitman, Requardt and Associates is preparing an Environmental Assessment (EA) in accordance with Air Force policies implementing the National Environmental Policy Act (NEPA) 32 CFR Part 989 for a proposed alternate water source for JBLE in the Tidewater area of Newport News, Virginia. The Preferred Alternative includes construction of a 12-inch water main that will connect to an existing 16 inch water main located in the Oakland Industrial Park. Additionally, the Preferred Alternative includes a short, gravel, access road to allow for maintenance of the water mains. The attached map depicts the location of the Preferred Alternative.

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Very truly yours,

Whitman, Requardt & Associates, LLP

Amanda J. Baxter Vice President - Environmental

Enclosures cc: Timothy P. Christensen, Chief, Conservation Branch-Environmental Element



Ms. Sheila W. McAllister City of Newport News Planning Director 2400 Washington Avenue Newport News, VA 23607

Re: Alternative Water Source, Joint Base Langley-Eustis City of Newport News

# Dear Ms. McAllister:

On behalf of Joint Base Langley-Eustis (JBLE) (point of contact: Mr. Timothy Christensien, Chief, Conservation Branch Environmental Element [Timothy.P.Christensen.civ@mail.mil, 757-878-4231]), Whitman, Requardt and Associates is preparing an Environmental Assessment (EA) in accordance with Air Force policies implementing the National Environmental Policy Act (NEPA) 32 CFR Part 989 for a proposed alternate water source for JBLE in the Tidewater area of Newport News, Virginia. The Preferred Alternative includes construction of a 12-inch water main that will connect to an existing 16 inch water main located in the Oakland Industrial Park. Additionally, the Preferred Alternative includes a short, gravel, access road to allow for maintenance of the water mains. The attached map depicts the location of the Preferred Alternative.

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Very truly yours,

Whitman, Requardt & Associates, LLP

Amanda J. Baxter Vice President - Environmental

Enclosures cc: Timothy P. Christensen, Chief, Conservation Branch-Environmental Element



Mr. Jim Kelly NNS&DDCo 182 Enterprise Drive Newport News, VA 23603

Re: Alternative Water Source, Joint Base Langley-Eustis City of Newport News

Dear Mr. Kelly:

On behalf of Joint Base Langley-Eustis (JBLE) (point of contact: Mr. Timothy Christensien, Chief, Conservation Branch Environmental Element [Timothy.P.Christensen.civ@mail.mil, 757-878-4231]), Whitman, Requardt and Associates is preparing an Environmental Assessment (EA) in accordance with Air Force policies implementing the National Environmental Policy Act (NEPA) 32 CFR Part 989 for a proposed alternate water source for JBLE in the Tidewater area of Newport News, Virginia. The Preferred Alternative includes construction of a 12-inch water main that will connect to an existing 16 inch water main located in the Oakland Industrial Park. Additionally, the Preferred Alternative includes a short, gravel, access road to allow for maintenance of the water mains. The attached map depicts the location of the Preferred Alternative.

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Very truly yours,

Whitman, Requardt & Associates, LLP

Amanda J. Baxter Vice President - Environmental

Enclosures cc: Timothy P. Christensen, Chief, Conservation Branch-Environmental Element



Mr. Brian L. Ramaley City of Newport News Waterworks Director 700 Town Center Drive Newport News, VA 23606

Re: Alternative Water Source, Joint Base Langley-Eustis City of Newport News

Dear Mr. Ramaley:

On behalf of Joint Base Langley-Eustis (JBLE) (point of contact: Mr. Timothy Christensien, Chief, Conservation Branch Environmental Element [Timothy.P.Christensen.civ@mail.mil, 757-878-4231]), Whitman, Requardt and Associates is preparing an Environmental Assessment (EA) in accordance with Air Force policies implementing the National Environmental Policy Act (NEPA) 32 CFR Part 989 for a proposed alternate water source for JBLE in the Tidewater area of Newport News, Virginia. The Preferred Alternative includes construction of a 12-inch water main that will connect to an existing 16 inch water main located in the Oakland Industrial Park. Additionally, the Preferred Alternative includes a short, gravel, access road to allow for maintenance of the water mains. The attached map depicts the location of the Preferred Alternative.

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Very truly yours,

Whitman, Requardt & Associates, LLP

Amanda J. Baxter Vice President - Environmental

Enclosures cc: Timothy P. Christensen, Chief, Conservation Branch-Environmental Element



Mr. Kilby Majette Natural Resources Conservation Service, Quinton Service Center 2502 New Kent Highway Quinton, VA 23141-1735

Re: Alternative Water Source, Joint Base Langley-Eustis City of Newport News

Dear Mr. Majette:

On behalf of Joint Base Langley-Eustis (JBLE) (point of contact: Mr. Timothy Christensien, Chief, Conservation Branch Environmental Element [Timothy.P.Christensen.civ@mail.mil, 757-878-4231]), Whitman, Requardt and Associates is preparing an Environmental Assessment (EA) in accordance with Air Force policies implementing the National Environmental Policy Act (NEPA) 32 CFR Part 989 for a proposed alternate water source for JBLE in the Tidewater area of Newport News, Virginia. The Preferred Alternative includes construction of a 12-inch water main that will connect to an existing 16 inch water main located in the Oakland Industrial Park. Additionally, the Preferred Alternative includes a short, gravel, access road to allow for maintenance of the water mains. The attached map depicts the location of the Preferred Alternative.

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Very truly yours,

Whitman, Requardt & Associates, LLP

Amanda J. Baxter Vice President - Environmental

Enclosures cc: Timothy P. Christensen, Chief, Conservation Branch-Environmental Element



Mr. Peter Kube US Army Corps of Engineers, Norfolk District 803 Front Street Norfolk, VA 23510

Re: Alternative Water Source, Joint Base Langley-Eustis City of Newport News

Dear Mr. Kube:

On behalf of Joint Base Langley-Eustis (JBLE) (point of contact: Mr. Timothy Christensien, Chief, Conservation Branch Environmental Element [Timothy.P.Christensen.civ@mail.mil, 757-878-4231]), Whitman, Requardt and Associates is preparing an Environmental Assessment (EA) in accordance with Air Force policies implementing the National Environmental Policy Act (NEPA) 32 CFR Part 989 for a proposed alternate water source for JBLE in the Tidewater area of Newport News, Virginia. The Preferred Alternative includes construction of a 12-inch water main that will connect to an existing 16 inch water main located in the Oakland Industrial Park. Additionally, the Preferred Alternative includes a short, gravel, access road to allow for maintenance of the water mains. The attached map depicts the location of the Preferred Alternative.

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Whitman, Requardt & Associates, LLP

Amanda J. Baxter Vice President - Environmental

Enclosures cc: Timothy P. Christensen, Chief, Conservation Branch-Environmental Element



Ms. Cindy Shultz US Department of the Interior, Fish and Wildlife Service 6669 Short Lane Gloucester, VA 23061

Re: Alternative Water Source, Joint Base Langley-Eustis City of Newport News

Dear Ms. Shultz:

On behalf of Joint Base Langley-Eustis (JBLE) (point of contact: Mr. Timothy Christensien, Chief, Conservation Branch Environmental Element [Timothy.P.Christensen.civ@mail.mil, 757-878-4231]), Whitman, Requardt and Associates is preparing an Environmental Assessment (EA) in accordance with Air Force policies implementing the National Environmental Policy Act (NEPA) 32 CFR Part 989 for a proposed alternate water source for JBLE in the Tidewater area of Newport News, Virginia. The Preferred Alternative includes construction of a 12-inch water main that will connect to an existing 16 inch water main located in the Oakland Industrial Park. Additionally, the Preferred Alternative includes a short, gravel, access road to allow for maintenance of the water mains. The attached map depicts the location of the Preferred Alternative.

The current system is expected to remain operational for only 22 hours if there is a water main break or if maintenance is required. The proposed project would provide a redundant water supply point, improving system reliability in the case of an outage in the existing system. The study will evaluate the potential effects of the proposed project on natural, cultural, and human resources.

The purpose of this letter is to request your input in the identification of environmental resources and/or potential environmental constraints and other relevant factors associated with the Preferred Alternative. Specifically we are requesting any information or records regarding environmental issues within the project area. In addition, any comments or concerns you have regarding the proposed project would be greatly appreciated.

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Should you require additional information or have questions about the proposed project, please contact me at 703-293-7437 or by email at abaxter@wrallp.com.

Very truly yours,

Whitman, Requardt & Associates, LLP

Amanda J. Baxter Vice President - Environmental

Enclosures cc: Timothy P. Christensen, Chief, Conservation Branch-Environmental Element

Appendix B – Conceptual Plan Set





| CIVIL ABBREVIATIONS  | NOT ALL SYNBOLS MAY BE SHOWN ON PLANS)<br>FORE WAN<br>OULD<br>MUR<br>CALLY WAYED STEEL<br>SS  | ALTERNITY ALL REAL RECORDING BOD SCIETU SOL   | BITTERY WAYE WE MULDON STATE<br>OCT TOWN WE WE WANTER-COURT STA<br>COURT NO WE WANTER-COURT STA<br>COURT NO WANTER RELEASE STA<br>COURT NO WANTER RELEASE STA<br>COURT NO WANTER RELEASE STATE<br>COURT NO WANTER RELEASE STATE<br>COURT WANTER WANTER WANTER RELEASE STATE<br>COURT WANTER WANTER RELEASE STATE<br>WANTER WANTER WANTER RELEASE STATE<br>COURT WANTER WANTER RELEASE STATE<br>COURT WANTER WANTER RELEASE STATE<br>WANTER WANTER WANTER RELEASE STATE<br>WANTER WANTER | ADMALION IN MANUAL AGENCIA IN IN MANUAL AGENCIA IN IN MANUAL AGENCIA IN IN MANUAL AGENCIA IN IN IN ANDRAL AGENCIA IN IN ANDRAL AGENCIA IN AGENC | OUTLE BAN PPE         NIS         NIS ON TO TO         OUTLE         OUT         OUT         OUTLE         OUT         OUTLE         OUT         OUT         OUTLE         OUT         OUTLE         OUT         OUTLE         OUT         OUT <thout< th="">         OUT         OUT<th>PURP PROPERTY AND A CONTRACTOR WAY<br/>FORM REAL PROPERTY AND A CONTRACTOR PROPERTY AND A CONTRACTOR PROPERTY AND A CONTRACTOR A</th><th>PROPOSED LEVEL LEVELVUD</th><th>6.0<br/>00</th><th>All State of the s</th><th></th><th></th><th></th><th></th><th></th><th></th><th>DETAIL REFERENCE ELEVATION REFERENCE SECTION</th><th>NOLASISSO AND AND AND AND AND AND AND AND AND AND</th><th>G1.01</th></thout<> | PURP PROPERTY AND A CONTRACTOR WAY<br>FORM REAL PROPERTY AND A CONTRACTOR PROPERTY AND A CONTRACTOR PROPERTY AND A CONTRACTOR A | PROPOSED LEVEL LEVELVUD  | 6.0<br>00  | All State of the s   |  |  |  |   |  |   | DETAIL REFERENCE ELEVATION REFERENCE SECTION | NOLASISSO AND   | G1.01  |
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|   | ELECTRICAL LEGEND (SCHEMATICS  | ICS AND WIRING DIAGRAMS)  | GENERAL NOTES  | ABBREVIATIONS  |             |
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|   | PLANS SYMBOLS  | MISCELLANEOUS   | 1. INSTALIATION OF ALL WIRING AND COMBULIS SHALL CONFORM WITH LATEST<br>EDITION OF THE NATIONAL ELECTRICAL CODE (NETA 70 AND LOCAL CODES).   |  |             |
| s 5   | SWITCHES<br>SNOLE POLE SWITCH<br>INREE WAY SWITCH ZOA, 120-2774.   | x $x$ $x$ $-$ designed of Paw (1, 2, 3, )<br>x $-$ designed of Paw (1, 2, 3, )                  |  | AF ABORE TNUSHED FLOOR<br>AND AND PRESS TALOR<br>AND AND AND TRANSFER SWITCH<br>AND AND AND AND AND AND AND AND AND AND                |             |
|   | THREE WAY SMITCH, 20M, 120-2774. 0=CONTROLLING SMITCH  | SEE SHEET 61-02 FOR ADDITIONAL INFORMATION<br>T KEYED ADTE                                      | <ol> <li>PROVIDE ALL REQUERT PLL BOXES AND JUNCTION BOXES FOR INSTALATION<br/>TO FILE WIRKING IN ACCORRANCE WITH THE CONTINUES TREDIFICATIONS THOUGH<br/>THE BOXES MAY NOT BE INDICATED ON THE DRAWINGS.</li> </ol>  |  |             |
| •   | 1' 4' FLUORESCENT CELLING MOUNTED LIGHTING FIXTURE NUMBER<br>Advancent to light denotes respective carcuit number<br>advancent south   |   | 4. FINL LOCADORS CRAVELES EXCEMENT, MOLINAR SAMPLIAR SERVICES,<br>AND MORSE DRS ERFERENCE COMMENT, LIDENDE STRUMES, SMITCHES,<br>AND MORSE DRS ERFERENCES DR FILLE COMMIN. PROR TO MISSIALIZING.   | CB CRUIT BREAKER<br>CBP CITY BOOSTER PLANP<br>CKT CREAT CREAT<br>COLUM COLUMINATIONS   |             |
| Ŷ   | AMAL MOUNTED METAL HALDE LICHTING FIXTURE, NUMBER<br>AMAL MOUNTED METAL HALDE LICHTING FIXTURE, NUMBER<br>   | SCHEMATIC SYMBOLS   | <ol> <li>The WHEN DEARMS, GUMMT AND SEC FOR INSES AND CONTINE ARE BASED<br/>UPPA SELECTED STANABOD COMPONENTS OF ELECTRICAL EQUIPARITY. MODIFICA-<br/>TONS: APPROVED TH THE CONTINUE WAS INVESTIGATED FOR THE CONTINUENT<br/>POTENTIAL TO ADMINISTIC FORUMENT FORUMENT FOR THE ADMINISTRY ADMINISTRY<br/>POTENTIAL TO ADMINISTIC FORUMENT FORUMENT FORUMENT.</li> </ol>  |  |             |
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| N N N   | UGHTING FAXURE TYPE, SEE LIGHTING FIXTURE SCHEDULE,<br>SKEET E7-01.  | 3 POLES UNLESS OTHERWISE NOTED.   | 7. ALL ALARM INDICATION AND CONTROL WIRNED IN JUNCTION BOXES SHALL BE WIRED<br>TO NUMBERED TERMINEL STRAPS AND DEVITIFED AS TO STRAT AND END OF RUN.   |  |             |
| ⊅   | EMERGENCY BATTERY POWERED LICHTING UNIT  | 100-5 LURENT INVESTOREN, BAITO AS INDICATED. NO. ADJACENT<br>I 100-5 INDICATES NUMBER OF CITS.  | <ol> <li>ALL ELECTRICAL EQUIPAGENT INSTALLED ACAUNST CONCRETE OR MASONRY WALLS<br/>SAUL DE INSTALLED ACAUNE STRUMEN RE COUNDENT AND<br/>THE MUNIME SUFFACE. SANALES STALLE SE STALLED. POC OR MULON.</li> </ol>  |  |             |
| ©<br>€H   | EXIT SIGN WITH BATTERY POWERED LIGHTING UNIT   | TRANSFORMER   | <ol> <li>ELECTRICAL ENCLOSURES LOCATED OUTDORS AND INDODRS IN WET AND DAMP<br/>LOCATOMS SHALL DE WEATHERPROOF NEAM 4X, UNLESS OTHERWES NOTED.</li> </ol>   |  |             |
| 4 20<br>6<br>9  | RECEPTACLES<br>UNPLEX RECEPTACLE (1204, 2001, SUBSCRIPT "C" INDICATES<br>GRI TYPE, MOUNT 24" AFF UON, "NIP" INDICATES WEATHERPROOF   |   | 10. DRAWINGS ARE DAGRAMMATIC, ACTUAL LOCATION OF EQUIPMENT TO BE DETERMINED<br>IN THE FELL, WHI EQUIPMENT SHALL FITH ON ANULABE STORE IT IS THE<br>DESCRIPTION OF THE CONTRIGUENT OF PROVIDE COUPMENT WHICH MEETS THE<br>DESCRIPTION OF THE CONTRIBUTION OF PROVIDE COUPMENT WHICH MEETS THE<br>DESCRIPTION OF THE CONTRIBUTION OF PROVIDE COUPMENT WHICH MEETS THE<br>DESCRIPTION OF THE CONTRIBUTION OF PROVIDE COUPMENT WHICH MEETS THE<br>DESCRIPTION OF THE CONTRIBUTION OF PROVIDE COUPMENT WHICH MEETS THE<br>DESCRIPTION OF THE CONTRIBUTION OF PROVIDE COUPMENT WHICH MEETS THE<br>DESCRIPTION OF THE CONTRIBUTION OF PROVIDE COUPMENT WHICH MEETS THE<br>DESCRIPTION OF THE CONTRIBUTION OF PROVIDE COUPMENT WHICH MEETS THE<br>DESCRIPTION OF THE CONTRIBUTION OF PROVIDE COUPMENT WHICH MEETS THE<br>DESCRIPTION OF THE CONTRIBUTION OF PROVIDE COUPMENT WHICH MEETS THE<br>DESCRIPTION OF THE CONTRIBUTION OF PROVIDE COUPMENT WHICH MEETS THE<br>DESCRIPTION OF THE CONTRIBUTION OF PROVIDE COUPMENT WHICH MEETS THE<br>DESCRIPTION OF THE CONTRIBUTION OF PROVIDE COUPMENT WHICH WEETS THE<br>DESCRIPTION OF THE CONTRIBUTION OF PROVIDE COUPMENT WHICH MEETS THE<br>DESCRIPTION OF THE CONTRIBUTION OF PROVIDE COUPMENT WHICH MEETS THE<br>DESCRIPTION OF PROVIDENCE OF THE CONTRIBUTION OF PROVIDE COUPMENT WHICH WEETS THE<br>DESCRIPTION OF PROVIDENCE OF THE CONTRIBUTION OF PROVIDENCE OF THE CONTRIBUTION OF PROVIDENCE OF THE<br>DESCRIPTION OF PROVIDENCE OF THE CONTRIBUTION OF PROVIDENCE OF THE PROVIDENCE OF THE CONTRIBUTION OF THE PROVIDENCE OF THE P | FUTC FLELLON UNIT INCLUDE UNIT OFFICIAL UNITED IN FUCU-<br>FLISCP FUEL LEVEL SYSTEM CONTROL PANEL<br>FANR FULL VOLTAGE, NON REPORTSING |             |
| 6   | EQUIPMENT CONNECTIONS  | S PHASE 3 MIRE DELY   | SWAL REVENCEMENT OF ALLOWING OF EXCUMENT OF TI BILL OWNER, PROVIDE<br>SWALE BEAGED AT NO ADDITIONAL, COST TO THE OWNER, PROVIDE<br>REVISED LAYOUT FOR APPROVAL.  |  |             |
|   | ory type transformer, size as indicated.<br>Electrical limit heater  |   | <ol> <li>CORDINATE WORK SCHEDULE WITH THE COUNTY, WORK WILL BE ALLONGED IN<br/>CERTINA AREAS. AND CORFIDED BY DISTING SECURITY REQUILITIONS AT THE FAULTY<br/>WORK SCHLALLLUNG FOR DULY OF SECURITY OF THE FAULTY WITHOUT ALTERNITYON.</li> </ol>  |  |             |
|   |  | L GROUND CONNECTION   | 12. SUBMIT A LIST OF ALL WARDS EXUIPATIFIT AND FRATURES TO THE ENGINEER FOR REVEW<br>AND APPROVAL NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT THE PERMISSION OF THE   | HP HORSE POWER<br>HES HIGH PESSUAR<br>C NOULARD OKSE   |             |
| 87<br>87<br>0   | DISCONNECT SMITCH, NON-FUSED, SUBSCRIPT INDICATES<br>AMPACITY AND NO. OF POLES, 3P-30A UON.  | SPD SURCE PROTECTION DEVICE   | ENVAREA IN TRADE NAME ALL EQUIPARIAT SALL BE NEW AND BEAN THE MANUFACTURERS  |  |             |
| জ<br>ক<br>ষ্ঠ   | COMBINATION MAGNETIC STARTER WITH NON-FUSED<br>DISCONNECT SWITCH. STARTER WITH NON-FUSED   |   | 13. ALL ELECTROM DRAWINGS ARE PREDARED IN ENGLISH LANTS, WIRE SZE IS INDICATED IN<br>THE AMERICAN WIRE OWDEL, ALL CONDUT SZES ARE INDUSTRY STANDARD.   | KOML THOUSAND CIRCULAR MILS<br>KV KULONUT AMPERES<br>KVA KULONUT AMPERES   |             |
|   | 1= MEMO STARTER SIGE NEWA SIGE 1 UCM.<br>30/3= INDICATES DISCONNECT SMITCH SIZE AND POLES<br>39-304 UON.   |   | 14. THE CARCIT NUMBERS ARE FOR IDENTIFICATION PURPOSE ONLY. THE CONTRACTOR<br>IS RESPONSIBLE TOR BULANCING LONGS AND CORRECTLY PHASING THE CHICUITS<br>IN PARLIABLE. TOR BULANCING LONGS AND CORRECTLY PHASING THE CHICUITS  | KILO   |             |
|   | GROUNDING  | Ì   | <ol> <li>ELECTROM, REQUIREMENTS FOR NECHWARK, EQUIPMENT ARE BASED ON EQUIPMENT<br/>SPECIFIC, COORDINGE EXACT REQUIREMENTS WITH MECHWIRKL, SHOP DRAWINS<br/>PERSENT DRESPEND, AND INSTALLING EQUIPMENT.</li> </ol>  |  |             |
| 50  | DA DARELLA A LA LAND AND ALLA  | ES SOUD STATE STARTER   | <ol> <li>VERPT ALL DOOR SMINGS BEDGE SETTING SMITCHES INSTALL SMITCHES ON THE<br/>LOCK SDE OF DOORS 4-0" AFT, UNLESS OTHERMISE NOTED.</li> </ol>   |  |             |
|   | TELEPHONE  | A A A A A A A A A A A A A A A A A A A   | <ol> <li>where ELERTML INSTAUTIONS DEFORD UNIV WIDE AG TO THER PLACES. THE<br/>ADMINISTIRE SMLL IERGRE THAT RESERVENCES. TIBE/ALTIS. MUTEURLS,<br/>ELC, ME PRIVIDE AMO SUFFANCE THE WORK OF THE OTHER TRAVES FOR QUUTY<br/>AND CORE COMPLIANCE.</li> </ol>   | MCC WOLDS CONTROL CENTER<br>WCS WAND DETREBUTION SMITCHEOMED<br>WCB WANN GROUND BAR<br>WH WCUNTING HEDART                              |             |
|   | TATABACTATIAN CITED WANTE  | ų   | 18. VISIT THE JOB SITE AND EXAMINE THE EXISTING CONDITIONS THAT MAY AFFECT HIS WORK.   |  |             |
|   | UNDERGROUND DUCTEANK   | S <sub>N</sub> MANUAL NOTOR STATER SMITCH WITH OVERLOND.  | <ol> <li>OPDNICS AND PASSAGE OF CONDUTS OR WREWAYS THROUGH FLOOR SLAGS AND FREE<br/>NATED WALES OF PARTITIONS SHALL BE PROVIDED WITH UL LISTED FIRE RATED SLEEVING</li> </ol>  |  |             |
| _   | WIRING   |   |  | NFPA NATIONAL FIRE PROTECTION ASSOCIATION<br>NC NOT NOTIFICATION   |             |
|   | FACEWAY BELOW SLAB OR IN SLAB OR CONCEALED<br>FACEWAY EXPOSED  |   |  |  |             |
| Î   | RACEWAY TURNED UP OR TOWARDS VEWER   |   |  |  |             |
| •   | RACEWAY TURNED DOWN OR AWAY FROM VEWER   |   | 23. NOT USED   |  |             |
| 0 000 000 000 000 000 000 000 000 000                 | DENOTES TO PAREL LP1 AND IN PRECAUGINARY, LP1<br>DENOTES TO PAREL LP1 AND INMERIALS DENTRY<br>CIRCUIT NUMBERS, #12 AND CONDUCTORS U.O.N.<br>NO. OF CONDUCTORS ARE DECOURED. PROVIDE GROUND<br>WARE M. ALL CONDUCTORS AND |   |  | PAC POLYNANI, CALLOROIE<br>RAKS ROOT MEAN SQUARE<br>ROW RIGHT OF MAY<br>SC SHORTHOP CONTACTOR<br>SC SHORTHOP CONTACTOR                 |             |
|   |  |   | <ol> <li>ALL MUCR EQUIPARIAT SMALL HAVE A 4" HIGH HOUSE KEEINIG PAD EXTENDING A<br/>MINIMUM OF 4" BEYOND THE EQUIPARIAT ON ALL SDES, UON</li> </ol>  |  |             |
|   | PANKLADARD<br>ELECTRICAL PAREBAARD (203/1204, 34, 44)<br>ELECTRICAL PARELBAARD (4504, 34, 34)  |   |  | SMM SYMMETROL<br>SMM SYMMETROL<br>TPP20.0004RR<br>UOX UNLSS ONEMRER NOTED<br>V NOLIS<br>MAS NOTED                                      |             |
| •••   | 90% 5<br>NOT   | 90% SUBMITTAL<br>NOT TO BE USED<br>FOA CONSTRUCTION   |  | Men Mori<br>Men Mile and Men   |             |
|   |  | 2/19/2013   | arios  | REV DATE DATE  | DESCRUPTION |
| DICENSION UTLITY SERVICES<br>INNORMON UTLITY SERVICES | WHITMAN, REQUARDT<br>& ASSOCIATES, LLP   | OLD DOMINION UTILITY SEKVICES<br>and largen rand<br>port rustrs, verna, 2004                    | ALLE DOMINION UTILITY SERVICES<br>ALTERATIF ALLERATIF ALLER SUPPLY LAR<br>AND BOOSTRE STATION  | ELECTRICAL GENERAL NOTES, ELECTRICAL GENERAL NOTES, EQ. 01   | 23          |
| FORT ELETTIC VIEDNA 2004                              | 11870 Merchants Walk, Sulte 100, Newport News, VA. 2566  | FERINARY 2013   | WATERS SECOND AND  |  |             |



NADOZER RETAM BEDJANIS, ANN OLITER TOJA ONDIAD "RET-ANN MUTCHE DAM AN SAFOK EDST-ALIS OTHE TOJA



















|                             |   | IN DRAWINGS FOR WIRING<br>WAUFACTURER FOR CABLE TYPE,  | chainail frach iu              |  |                 |                                   |                |   |   |  |                       |          |  |                |   |                  |  |  |  |   |   |        |               |                |
|-----------------------------|---|--|--------------------------------|--|-----------------|-----------------------------------|----------------|---|---|--|-----------------------|----------|--|----------------|---|------------------|--|--|--|---|---|--------|---------------|----------------|
|                             | DRAWING NOTES:  | T COORDINATE WITH INSTRUMENTATION DRAWINGS FOR WIRING<br>RECOURDING AND EQUIPMENT MANUFACTURER FOR CABLE THPF. | QUANTITY, AND LENGTH, FIELD CO |  |                 |                                   |                |   |   |  |                       |          |  |                |   |                  |  |  |  |   |   |        |               |                |
|                             | 225 AMP WCB<br>3 PHASE, 4 WIRE + GROUND<br>PANET LOCATION PLANE PLANE | LOAD SERVED  | 100 ELECTRIC UNIT HEATER EUH-1 |  | 7=.10           | BFP POWER RACK                    | SPARE          | SPARE<br>Spare<br>Spare   | PACE  | PACE   | PACE                  | PACE     |  | 50 AMP MCB     | 3 PHASE, 4 WIRE + GROUND<br>PANEL LOCATION: PUMP ROOM | E LOAD SERVED    | -OUTSIDE RECEPTACLE<br>-PUMP ROOM RECEPTACLE       | 0 100 GENERAL CONTROL PANEL<br>0 100 – PUMP ROOM RECEPTACLE<br>0 100 – PUMP ROOM RECEPTACLE<br>0 100 SPARE | SPARE<br>SPARE<br>FLOW METER<br>JACKET WATER HEATER (CEN)  | SPARE   | 9%05<br>9%05<br>9%05<br>9%05<br>9%05<br>9%05  |        |               |                |
| DISTRIBUTION PANELBOARD DPP | 400 AMP BUS<br>480/277 VOLTS<br>SUBSACE MANANTER                      | CRUIT BREAKER OCT. OCT. CRUIT BREAKER<br>FRAME TRAP P NO. NO. P TRAP FRAME                                     | 2 3 20                         | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | 01 0            | 20 1 13 14 2 15 100<br>to 5 16 16 | 17 18 1 20 100 | 20         3         19         20         1         20         100           -         -         21         22         1         20         100           -         -         21         22         1         20         100           -         -         34         4         30         100 | 20         1         25         26         1         -         -         -           40         3         27         28         1         -         -         - | -         -         29         30         1         -         100           40         3         31         32         -         -         100 | <u>3</u> <del>3</del> |          |  | PANELBOARD LP1 | SURFACE MOUN  | P NO. NO. P TR   | 1 3 4 1 2  | 8 1 2<br>10 1 2<br>12 1 2<br>14 1 2  | 1         15         16         1         2           1         17         18         1         2           1         19         20         1         2           1         21         22         2         3  | 1         23         24         -         -           1         25         26         2         2         2           1         27         28         -         -         -           1         27         28         -         -         - | -         31         32         -         -           -         -         33         34         -         -         -           -         -         35         36         -         -         -         -           3         37         38         - |        |               |                |
| DIST                        | 1 COLUMN  | ę  | 200                            | J L  |                 | 100                               | 100            |   | 100   | 100  | 100                   |          |  |                | 88  |                  | PUMP ROOM LIGHTS                                   | (b)  |  |   | SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE  |        |               |                |
|                             | SPD: 160KA<br>22,000 AC<br>NPAA 12 ENCLOSUBE                          |  | NBP-1                          |  | = - EXTRAUSI FA | 30MQS                             | -              | 20MSE   | 39MeS   | - 005  | -<br>1-[P1            | 1 1      |  |                | 10,000<br>NEMA  | -PCV             | NU4-   | -941<br>-PON   | SPARE<br>SPARE<br>SPARE  | SPARE<br>SPARE<br>SPARE<br>SPARE  | SPACE<br>SPACE<br>SPACE<br>SPACE  |        |               |                |
|                             | SPD: 160/A<br>22,000 AC<br>NEM 12 FM                                  |  | WBP-1                          | i i  | - EARWUST FA    | SPARE                             |                | 29465   | SAME  | - 045  | -<br>-                |          |  |                | 10,000  |                  | REMARKS PUN  | -047<br>011. H<br>- PUVE   | DOORDIMATE OUTDOOR FATURE<br>TYPE AND COLOR WITH ARCHITECT,<br>PROVIDE WIRE CLURD<br>SPARE   | Spare<br>Spare<br>Spare   | 9002<br>9002<br>9002  | ŕ      |               |                |
|                             | SP0: 160A<br>22,000 AC<br>NEMA 12 FM                                  |  | MBP-1                          | i i  |                 | SAME<br>SAME                      |                |   | 38M65   | -  |                       |          |  |                | 10,000<br>NEMA  |                  |  | 120  |  | 120 29462<br>29462<br>29462   | 100<br>20402<br>20402<br>20402<br>20402   |        |               |                |
|                             | SPC: 1604A<br>22,000 AIC<br>NSTAL 75 SPC                              |  | MBP-1                          | i i  |                 | 29M8C                             | 37.WG.         | 39465   | 3M65  | - 665  |                       | <u> </u> |  |                | 10,000<br>NEMA  |                  | REMARKS  |  | COORDINATE OUTDOOR FXCHIEE<br>TYPE AND COLOR WITH ARCHIECT<br>PROVIDE WIRE GLARD   |   |   | r<br>I |               |                |
| SCHEDULE                    | 5fb2: 160AA<br>22000 AG<br>86AA 15 PK                                 |  | M891                           |  |                 | SPAR                              | - 2000C        |   | 3%6   | 065  |                       |          |  |                | 10,000<br>MEAM  | SCHEDULE         | TYPE CATALOS NUMBER AND VOLTS REDWRKS              | 120  | 120 COORDINATE OUTDOOR FATURE<br>TYPE AND COLOR WITH ACCHITECT.<br>PROVIDE WIRE CLARD  | 120   | 120   |        | TTAL          | SED            |
| SCHEDULE                    | SPD: 1504<br>REMARS 22,000 MC   |  | H89-1                          |  |                 | SPARE                             |                | I I I I I I I I I I I I I I I I I I I   |   |  | 1d1-1                 |          |  |                | 10,000<br>NEAM  | FIXTURE SCHEDULE | UMPS MANUFACTURER AND VOLTS REMARKS OXINLOS NUMBER | 32 TB UNHOWN<br>DM-3-32-120-028105 120   | 42 TKI WHAN 120 120 120 120 120 120 120 120 120 120  | 5.4 NOWESSENT 000-02 120 120  | - LED UNKOW 120<br>UV-S-1-G-120-DL 120  |        | % SUBMITTAL   | OT TO BE USED  |
| CONDUIT SCHEDULE            |   |  | N69-1                          |  |                 | SPAGE<br>Concerne                 |                |   | 3M/5  |  |                       |          |  |                | 10000<br>NBM  | FIXTURE SCHEDULE | NO WATE TYPE CATACO NUMBER AND VOLIS REWARS        | 3 32 TB DM-3-32-120-033105 120   | -0 <sup>5</sup> 2 42 TKI WST-2/X2HT-MO-120 120 TK2 00058HWIT DUTIONOR FIXTURE.<br>WST-2/X2HT-MO-120 120 TK2 0000 MIR DURING  | 1 5.4 NUCMUESSENT COOPER 120  | - LED UN-5-1-6-120-DL 120   |        | 90% SUBMITTAL | 1              |
| AND CONDUIT SCHEDULE        |   |  |                                | - Contraction of the contraction |                 |                                   |                |   |   | 2MGT   |                       |          |  |                | 10,000<br>NBM   | SCHEDULE         | UMPS MANUFACTURER AND VOLTS REMARKS OXINLOS NUMBER | PEDCANT<br>M.H.+ef-d <sup>-6</sup> 3 32 TB ULTHONK<br>A.F.F. 004-5-120-023105 120                          | DST         WLL:<br>M.H.+10 <sup>-0</sup> 2         42         TR         WST_2/42787-M0-120         120         TR         COORDINATE OUTDOOR FORMER:<br>MARKED           M.K.F.G.O.         42         TR         WST_2/42787-M0-120         120         TR         POINT MARKED | SUBSACE 1 5.4 INCANESSENT CODERS 120  | SURFACE LED LAPANA 120  |        | 90% SUBMITTAL |                |
| CONDUIT SCHEDULE            | L Staward   | 5* 3/250 KOML 1/46.  | 2 1/2 3/250 KDM, 1/4G          |  |                 | 3/10. 1/106.                      | - 346. 1/105.  | Prix, SHELDED THISTED PARE 1  |   | 2410, 14736. UNIC  |                       |          |  |                | 10000<br>NBM  | FIXTURE SCHEDULE | NO WATE TYPE CATACO NUMBER AND VOLIS REWARS        | 3 32 TB DM-3-32-120-033105 120   | WALL<br>MALEND 2 42 TRI WEI-27-2120 120 TR WEI-27-2120 120 TR 20 COORTINATE OUTDOOR FORUME<br>MALEND 20 120 TRI PROVINCE WIND CARD   | 1 5.4 NUCMUESSENT COOPER 120  | - LED UN-5-1-6-120-DL 120   |        | 90% SUBMITTAL | NOT TO BE USED |













Appendix C – Record of Non-Applicability



## RECORD OF NON-APPLICABILITY (RONA) FOR CLEAN AIR ACT CONFORMITY

## Joint Base Langley-Eustis, Newport News, Virginia

The proposed action falls under the Record of Non-Applicability (RONA) category and, therefore, is documented within this RONA.

Old Dominion Utilities Service (ODUS), in coordination with the Fort Eustis portion of Joint Base Langley-Eustis (JBLE-FE), is proposing to construct a new water supply point for the purposes of improving reliability of the water system in the instance of a break in the post's water main or maintenance on the Newport News supply line. The alternative water supply would serve as a secondary connection to JBLE-FE and provide necessary redundancy in the system. The proposed water supply point would tie into the existing 16-inch water main along Enterprise Drive, near the Icelandic Seafood Corporation building and Oakland Industrial Park, and extend approximately 2,450 linear feet south to tie into the JBLE-FE system. A precast pump station and maintenance access road would also be constructed as part of the proposed project. Construction would include activities such as excavation, site grading, trenching, and pipe installation.

In accordance with the *General Conformity Rule* of the Clean Air Act, Section 176(c)(4), the proposed project has been evaluated for the potential air emissions associated with its construction to determine if the maximum annual emissions would result in any violations of National Ambient Air Quality Standards (NAAQS) or maintenance plans established for the project area. The Clean Air Act requires the Environmental Protection Agency to set NAAQS for principal pollutants considered to be harmful to public health and the environment, which include carbon monoxide (CO), lead (Pb), nitrogen dioxide (NO<sub>2</sub>), ozone (O<sub>3</sub>), particle pollution (PM), and sulfur dioxide (SO<sub>2</sub>).

Regulated under 40 CFR 93 (b), the *General Conformity Rule* states that no department, agency, or instrumentality of the Federal Government shall engage in, provide financial assistance for, approve, or support any activity that does not conform to applicable State Implementation Plans (SIP) designated for areas being in non-attainment for any established NAAQS or maintenance plans (maintenance areas). Threshold (*de minimis*) rates of emissions have been determined for by the Environmental Protection Agency (EPA) for federal actions with the potential to have significant air quality impacts or be incompatible with SIPs. If a proposed action, located in an area designated for non-attainment or maintenance, exceeds these *de minimis* threshold levels, a general conformity determination is required to show that the project would not interfere with the area's NAAQS goals.

JBLE-FE is located within the Hampton Roads Intrastate Air Quality Control Region (AQCR), as designated in 40 CFR 81.93. The existing air quality attainment status designations for Hampton Roads Intrastate AQCR are classified in 40 CFR 81.321<sup>1</sup> as:

<sup>&</sup>lt;sup>1</sup> Attainment status designations obtained from 40 CFR §81, Subpart C (07-01-2012 Edition)

- better than national standards for SO<sub>2</sub>;
- unclassifiable/attainment for CO;
- attainment for O3 (1-hour) standard;
- cannot be classified or better than national standards for NO2;
- unclassifiable/attainment for O3 (8-hour);
- unclassifiable/attainment for PM2.5 (annual NAAQS);
- unclassifiable/attainment for PM2.5 (24-hour NAAQS); and
- not designated for Pb or PM10.

The Hampton Roads Intrastate AQCR was initially designated as a nonattainment area based on 1997 8hour ozone standards; however, after several consecutive years of air quality improvements, the EPA approved its application for resignation to attainment in June 2007. Since then, Hampton Roads has been designated as a maintenance area for 8-hour ozone. As a result, a *General Conformity* applicability analysis has been conducted for the alternative water supply line into JBLE-FE to determine if the proposed action would exceed established *de minimis* thresholds for this air quality contaminant. **Table 1** compares the calculated emissions and EPA's *de minimis* standards. Because ozone forms from other emissions, the analysis focuses on ozone precursors that include volatile organic compounds (VOCs), sulfur oxides (SOx), and nitrogen oxides (NOx).

## Table 1: Comparison of Construction and Operation Emissions to General Conformity Rule De Minimis Thresholds

|                                    | ···· <u>··</u> ····· | Emissions (tons/year) |       |
|------------------------------------|----------------------|-----------------------|-------|
|                                    | VOCs                 | SOx ·                 | NOx   |
| 2013 Construction Emissions        | 0.0085               | .0008                 | 0.545 |
| Annual Operation Emissions         | 0                    | 0                     | 0     |
| De Minimis Thresholds <sup>1</sup> | 50                   | 100                   | 100   |
| Threshold Exceeded?                | No                   | No                    | No    |

<sup>1</sup>EPA threshold for maintenance areas (40 CRF 93§153).

The result of the analysis concludes that the proposed project would remain below the *de minimis* threshold for an 8-hour ozone maintenance area and would be exempt from the requirements of the *General Conformity Rule*. JBLE-FE is in attainment for all other area criteria pollutants; therefore, these pollutants are not subject to a conformity review. Supporting documentation and calculations for these emissions findings are included in the pages that follow.

## **RONA APPROVAL**

Mr. Michael Shaffer Air Program Manager Civil Engineer Division, Environmental Element, Fort Eustis, VA

June 2013

Date-15-March-2013-
#### AIR QUALITY CALCULATIONS AND ANALYSIS

Air pollutant emissions associated with the project's operational activities would be too minimal to model since the sole source of emissions would be the intermittent use of a backup generator for the proposed pump station, during occasional power failures. As a result the alternative water supply line would not result in any perceivable emissions of criteria pollutants once it is installed.

Pollutant emissions during the construction of the proposed project would be expected to occur and have been calculated based on the anticipated schedule for project completion. Construction of the proposed project would consist of a simple pipe laying and erection of a precast pump station building. The work is scheduled to begin in late February 2013 and be completed by June 2013.

Air emissions associated with construction phase would directly correlate with the running of heavy equipment during construction and the delivery of construction materials (concrete and workers). The estimated construction emissions were calculated by considering the duration of construction (120 days), the construction equipment anticipated to be used, the estimated number of days each piece of equipment would be used, and the estimated portion of those days that the piece would be running. The construction equipment considered for each phase is listed below:

- 1. Front End Loader
- 2. Dump Truck
- 3. Water Truck
- 4. Excavator

- 5. Concrete Truck
- 6. Compactor/Tamper
- 7. Concrete Truck
- 8. Dozer/Crawler Tractor

#### **Emissions Calculations and Conclusions**

Standard emissions factors and the predicted horsepower of each listed construction implement were used to derive an approximate calculation of emissions during each phase of construction. For several of the equipment pieces, specific emissions factors could not be obtained; therefore, some assumptions had to be made. The total emissions for each year of construction are intended to be "planning level" estimates to be used for comparison to the *de minimis* thresholds for the 8-hour ozone maintenance area (see table below). The computations and assumptions are included in the calculation sheet that follows this document.

| Construction Dhose                   | Тс       | Total Emissions |          |  |
|--------------------------------------|----------|-----------------|----------|--|
| Construction Phase                   | voc      | NOx             | SOx      |  |
| Total Emissions for Project (tons)   | 0.025978 | 1.657029        | 0.002391 |  |
| Total Emissions per Year (tons/year) | 0.008541 | 0.544777        | 0.002391 |  |
| de minimis Threshold (tons/year)     | 50       | 100             | 100      |  |
| Exceed Threshold?                    | No       | No              | No       |  |

#### Description of Units and Factors Used for Emissions Calculations

- Equipment Power: Rated equipment power in horsepower
- Utilization Factor: Anticipated portion of 8-hour workday in which equipment will be used
- Emission Factor: Characteristic of each piece of equipment in grams per horsepower-hour. Carbon monoxide (CO), nitrogen oxides (NOx), sulfur oxides (SOx), particulate matter (PM<sub>10</sub>), carbon dioxide (CO<sub>2</sub>), and methane (CH<sub>4</sub>) were derived from 2013 average emission factors listed in SCAQMD's *Off-road Mobile Source Emission Factors* database (2008). Factors for volatile organic compounds were unavailable through this database and were obtained for 2005 (Koizumi 2005).
- Quantity of Equipment Set-Ups: Number of equipment rigs running at any given time during the work day
- Total Project Emissions: Sum of emissions for each phase of construction
- Total Emissions per Year: Total per year emissions based on the complete project duration

#### Formulas for Calculating Emissions

The formulas used in the emissions calculations are provided below:

Emissions (pounds per day) = Equipment Power (horsepower) x Utilization Factor x Emission Factor (grams per horsepower-hour) x 0.00220462 (pounds per gram) x 8 (hours per day)

**Total Emissions (pounds)** = Emissions per day x Total Equipment Days

**Total Emissions per Phase (tons)** = Sum of Total Emissions/2000 (pounds)

Total Emissions per Year (tons) = Total Emissions in Tons x (Total Project Workdays/365)

#### **REFERENCES CONSULTED**

Clean Air Act, Section 176(c), 42 USC §7596(c) (2003).

Commonwealth of Virginia (October, 2006). Request for Redesignation to Attainment for the Hampton Roads Nonattainment Area. Department of Environmental Quality: Ricmond, VA. <http://www.deq.state.va.us/Portals/0/DEQ/Air/Planning/HRREDGN1.pdf> Accessed February 11, 2013.

Designation of Areas for Air Quality Planning Purposes, 40 CFR §81 (2012).

Determining Conformity of Federal Actions to State or Federal Implementation Plans, 40 CFR §93(B) (1993).

- Environmental Protection Agency (EPA) (2010). Exhaust and Crankcase Emission Factors for Nonroad Engine Modeling-Compression Ignition. Office of Transportation and Air Quality, Assessment and Standards Division. Report No. NR-009d.
- Koizumi, J. (2005). Sample Construction Scenarios for Projects Less than Five Acres in Size. South Coast Air Quality Management District, Diamond Bar, CA. <a href="http://www.aqmd.gov/ceqa/handbook/lst/FinalReport.pdf">http://www.aqmd.gov/ceqa/handbook/lst/FinalReport.pdf</a> Accessed October 09, 2012.
- South Coast Air Quality Management District (SCAQMD) (2008). Off-road Mobile Source Emission Factors (Scenario Years 2007-2025). South Coast AQMD, Diamond Bar, CA. <a href="http://www.aqmd.gov/ceqa/handbook/offroad/offroad.html">http://www.aqmd.gov/ceqa/handbook/offroad/offroad.html</a> Accessed October 10, 2012.

| 10                    |          |                                       |                       |       |       |       |              |                             |       |         |              | G                             | CONSTRUCTION PHASE | <b>DN PHASE</b> |         |                     |         |           |             |   |                |            |   |          |                       |               |  |              |
|-----------------------|----------|---------------------------------------|-----------------------|-------|-------|-------|--------------|-----------------------------|-------|---------|--------------|-------------------------------|--------------------|-----------------|---------|---------------------|---------|-----------|-------------|---|----------------|------------|---|----------|-----------------------|---------------|--|--------------|
|                       |          |                                       |                       |       |       | Emis  | ssions Facts | Emissions Factors (g/hp-hr) | ţ,    |         |              |                               |                    |                 |         | Emissions (Ths/day) | (veb/sq |           |             |   |                |            |   | Total 5  | Total Emissions (tbs) | (tbs)         |  |              |
| Equipment             | FuelType | Equipment Utilization<br>Power Factor | Utilization<br>Factor | 8     | VOC   | *ON   | so           | a otivia                    | PMZS  | ŝ       | 3 <u>3</u> % | Quantity of Equipment Set-ups | 8                  | 202 l           | Ň       | s,<br>S             | PM120   | STOWA     | e<br>g      | Total<br>CM <sub>4</sub> Days   | 8<br>A sett    | 202        | NÇ  | ŝ        | DIMI                  | 0 PM2.5       | 8  | ર્ક          |
| Front End Loader      | Diesel   | 108                                   | 0.75                  | 1334  | 0.060 | 1725  | 0,002        | 0.145                       | 0.140 | 195.529 | 0.024        | -                             | 1.905              | 0.086           | 2,465   | 0.003 0.            | 0.207 6 | 0.201 275 | 0 12276/2   | 0.034 0.034   | 0 228.655      | 55 10.287  | 295.797   |          | 0.393 24.8            | 24,815 24,070 | 70 33519.751   | 51 4.060     |
| Dump Truck            | Diesel   | 350                                   |                       | 0.577 | 0.024 | 1001  | 0.002        | 0.057                       | 0.056 | 247.057 | 0.018        | -                             | 2672               | 0110            | 7.503 0 | 0.011 0.            | 0.266   | 0.258 114 | 1143.802 0  | 0.082 1.20  | 0 320.640      | 40 13.167  | 167 900.398                                     |          | 1347 31929            | 170.05 1026   | 71 137256.266  | 9.866        |
| Wuter Truck           | Diesel   | 250                                   | 0.1                   | 125.0 | 0.024 | 1.621 | 0.002        | 0.057                       | 0.056 | 247.057 | 0.018        | 71                            | 0.254              | 0.010           | 0.715 0 | 0.001 0.            | 0.025 0 | 0.025 106 | 108.934 0   | 0,008 120   | 20,537         |            | 1.254 85,752                                    |          | 0.128 3.0             | 3.041 2.950   | 50 13072.025   | 25 0.940     |
| Excovator             | Diesel   | 250                                   |                       | 0.643 | 0,022 | 2.061 | 0,003        | 0.068                       | 0.066 | 287.910 | 0.020        | 1                             | 2,833              | 0.096           | 9,088   | 0.014 0.            | 0.298 0 | 0.289 126 | 1269.462 0  | 0.090 120   | 0 339,983      | 023.11.520 | 1090.563  |          | 1.714 35.743          | 743 34.671    | 71 152335.452  | 52 10.762    |
| Concrete Truck        | Diesel   | 335                                   | 0.2                   | 0.577 | 0.024 | 1621  | 0.002        | 0.057                       | 0.056 | 247,057 | 0.018        | -                             | 0.852              | 0.035           | 2394 (  | 0.004 0.            | 0.085 0 | 0.082 36/ | 364.927 0   | 0.026 320   | 0 102,299      |            | 4.201 287.270                                   |          | 0.430 10,187          | 188.2 781     | 81 43791.285   | 3.148        |
| Compactor/Tamper      | Diesel   | 8                                     | 0,1                   | 0.797 | 0.034 | 0,951 | 0.002        | 0.037                       | 0,036 | 130.447 | 0.014        | ы                             | 0.011              | 0,000           | 0.013 0 | 0.000 0.            | 0.001 0 | 1 1000    | 1.841 0     | 0.000 120   |                | 1349 0.0   | 0.058 1.610                                     |          | 0.003 0.0             | 0,003 0.061   | 61 220.867   | 67 0.023     |
| Concrete Pump Truck   | Diesel   | 400                                   | 0,1                   | 0.577 | 0.024 | 1.621 | 0.002        | 0.057                       | 0.056 | 247.057 | 0.018        | -1                            | 0.407              | 0.017           | 1143 0  | 0.002 0.            | 0.041 0 | 0.039 174 | 174.294 0   | 0.013 120   | 0 48.859       |            | 2.006 137,203                                   |          | 0.205 4.8             | 4,865 4,719   | 20915.240  | 40 1.503     |
| Dozer/Crawler Tractor | Diesel   | 120                                   | 0.5                   |       | 0:060 | 3,247 | 0.004        | 0.285                       |       | 314,114 | 0.039        | -                             | 2554               | 0.079           | 4.296   | 0.005 0.            | 0.245 0 | 0.237 415 | 415,501 0   | 0.052 120   | 0 306.451      |            | 9.463 525,465                                   |          | 0.561 29.343          | 343 28,463    | 63 49860,119   | 19 6.213     |
|                       |          |                                       |                       |       |       |       |              |                             |       |         |              |                               |                    |                 |         |                     |         | Tot       | I Emission: | Total Emissions for this Phase (Ibs)  |                | 301 21-95  | 1378.7737 51.95576 3314.05816 4.782325 139.9861 | 16 4.782 | 325 139.0             | 861 135.7865  | 65 450971.005  | 05 36.51408  |
|                       |          |                                       |                       |       |       |       |              |                             |       |         |              |                               |                    | •               |         |                     |         | Tot       | I Emission  | otal Emissions for this Phase (tons) 0.6893868 0.025578 1.65702008 0.002391 0.059993 0.057893 | (tons) 0.6893u | C8 0.025   | 378 1.65702                                     | 200.0 80 | 391 0.069             | 993 0.0678    | 93 225,4855025   | 725 0.018257 |
|                       |          |                                       |                       |       |       |       |              |                             |       |         |              |                               |                    |                 |         |                     |         | Tot       | I Emissione | fotal Emissions per Year (tons)   |                | 800'0 1//: | 541 0.544776                                    | 68 0,000 | 786 0.023(            | 011 0.0223    | 0.22566477 0.008541 0.54477668 0.000786 0.023011 0.022321 74.13722 ( | 222 0.005002 |
|                       |          |                                       |                       |       |       |       |              |                             |       |         |              |                               |                    |                 |         |                     |         |           |             |   |                |            |   |          |                       |               |  |              |

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CALCULATION SHEET: ALTERNATIVE WATTER SOURCE, JOINT BASE LANGLEY-EUSTIS 10 m 20022046 pounds 11 ton 2000 pounds Hours per Day 8.00 hours 5.00 days 5.00 days 5.00 days Project Workdays 120 days Total Project Workdays 120 days

Appendix D – Wetland Delineation Memo





#### WHITMAN, REQUARDT & ASSOCIATES, LLP ENGINEERS · ARCHITECTS · PLANNERS EST. 1915

# MEMORANDUM

Date: 12/7/2012

CC:

 To: John Thomas,WRA
From: David Kwasniewski
Subject: Fort Eustis Alternate Water Source Jurisdictional Determination Reconnaissance Work Order Number: 19227-002 Contract Number: N/A Project: Fort Eustis Alternate Water Source

On November 19, 2012 Whitman, Requardt and Associates environmental scientist David Kwasniewski and engineer John Thomas performed a wetland delineation of the Fort Eustis Alternate Water Source project. The site is located north of the Fort Eustis Military Base and south of Enterprise Drive between address 190 and 182 Enterprise Drive Newport News, VA.

The study area drains toward Skiffes Creek, which ultimately drains into the James River and the Chesapeake Bay. The United States Geological Survey recognizes the study area as part of the Lower James watershed, hydrological unit code (HUC) 02080206. Overall, the study area is relatively flat and drains to the west. The entire project area is forested. Common tree species found were willow oak (*Quercus phellos*), red maple (*Acer rubrum*), sweet gum (*Liquidambar styraciflua*), Amercian Holly (*Ilex opaca*), and loblolly pine (*Pinus taeda*).

Section 404 of the Clean Water Act requires that waters of the U.S., including wetlands, be identified and delineated. The project area was traversed to identify jurisdictional areas. Our field visit found two wetland areas approximately ten to fifteen foot by 8 foot (80 to 120 square feet) in size. These areas were not flagged in the field. Both of the areas are located along the eastern portion the project area and are not hydrologically connected to water of the U.S.. Therefore, these wetlands are considered to be isolated. The dominant wetland vegetation are cattail (*Typha latifolia*), soft rush (*Juncus effuses*) and woolgrass (*Scirpus cyperinus*). No standing water was found. However water stained leaves shows evidence that hydrology is present.





9030 Stony Point Parkway, Suite 220, Richmond, Virginia 23235 www.wrallp.com Phone: 804.272.8700 Fax: 804.272.8897



#### 12/7/2012

Page 2

19227-002

One soil profile located in uplands was taken near the northern portion the project area during the delineation. The soil characteristics represent the majority of the site:

Depth from soil surface

0-2 inches were roots mixed/loam with a color of 7.5YR 3/1, 2-9 inches was a clay loam with a color of 10YR 5/2, and 9-17 inches was clay with a color of 10YR 5/3 and mottles 10YR 5/2

#### Permitting

The permitting requirements and permit timelines are driven by the nature of the proposed activity. The permit process should be initiated early in final design after field surveys and alignment selection is finalized. During the planning and design phase of this project all efforts will be made to avoid and minimize impacts to the maximum extent practicable.

Wetlands on site lack a surface connection to the waters of the U.S. and are believed to be isolated. The USACE does not regulate isolated wetlands. However, a Jurisdictional Waters Determination Request is still necessary from the USACE to confirm the wetlands on site. The Virginia Department of Environmental Quality (DEQ) regulates impacts into isolated wetlands. Due to the nature of this project it is anticipated that these wetland areas will be temporarily impacted during the construction of this project. Coordination with the DEQ will be required.

David Kwasniewski – Environmental Scientist

9030 Stony Point Parkway, Suite 220, Richmond, Virginia 23235 www.wrallp.com Phone: 804.272.8700 Fax: 804.272.8897

**Appendix E – Federal Consistency Determination** 





COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY Street address: 629 East Main Street, Richmond, Virginia 23219 Mailing address: P.O. Box 1105, Richmond, Virginia 23218 TDD (804) 698-4021 www.deq.virginia.gov

Douglas W. Domenech Secretary of Natural Resources

David K. Paylor Director (804) 698-4000 1-800-592-5482

May 16, 2013

Mr. Timothy P. Christensen 733 Mission Support Group Civil Engineer Division, U.S. Air Force Joint Base Langley-Eustis 1407 Washington Boulevard Fort Eustis, Virginia 23604

RE: Environmental Assessment and Federal Consistency Determination for the Alternate Water Supply System and Booster Station at Joint Base Langley-Eustis, Newport News, (DEQ 13-060F)

Dear Mr. Christensen:

The Commonwealth of Virginia has completed its review of the above-referenced document. The Department of Environmental Quality is responsible for coordinating Virginia's review of federal environmental documents submitted under the National Environmental Policy Act (NEPA) and responding to appropriate federal officials on behalf of the Commonwealth. DEQ is also responsible for coordinating Virginia's review of federal consistency documents submitted pursuant to the Coastal Zone Management Act (CZMA) and providing the state's response. The following agencies and planning district commission joined in this review:

Department of Environmental Quality Department of Game and Inland Fisheries Department of Conservation and Recreation Department of Health Virginia Marine Resources Commission Department of Forestry Department of Transportation Department of Historic Resources Hampton Roads Planning District Commission

In addition, the Department of Agriculture and Consumer Services and the City of Newport News were invited to comment on the proposal.

# **PROJECT DESCRIPTION**

The Departments of the Army and Air Force (Army/Air Force) propose to construct an alternate water supply system and booster station on Joint Base Langley-Eustis (JBLE-FE) at Fort Eustis in the City of Newport News. Old Dominion Utility Service (ODUS) owns and operates the water and sanitary sewer facilities at JBLE-FE and would install the new water supply point. Construction would include excavation, site grading, trenching and pipe installation. In addition, a meter vault, backflow preventer, water booster station, 2,450 linear feet of buried 12-inch pipe, and a 1,700-linear foot long by 12-foot wide gravel maintenance access road would be installed. A secondary connection would provide redundant water service to account for potential future water outages, which would improve system reliability. Two primary alternatives for the proposed action were identified and evaluated. Alternative 1, on Shellabarger Drive and Alternative 2, in the Oakland Industrial Park. Alternative 2 received the highest score and is the least expensive alternative due to its shorter length and lack of a river crossing. Accordingly, Alternative 2, in the Oakland Industrial Park, was selected as the preferred alternative. In order to meet demands, construction shall be completed and the alternate water supply system will be fully operational no later than September 30, 2013.

## CONCLUSION

Provided activities are performed in accordance with the recommendations which follow in the Impacts and Mitigation section of this report, this proposal is unlikely to have significant effects on ambient air quality, water quality, wetlands, important farmland, forest resources, and historic resources. It is unlikely to adversely affect species of plants or insects listed by state agencies as rare, threatened, or endangered.

#### ENVIRONMENTAL IMPACTS AND MITIGATION

**1. Surface Waters and Wetlands.** According to the EA (page 22), no streams were identified on affected private land during field visits to the area. However, a perennial stream is located immediately adjacent to the study area within Training Area 2. The perennial stream runs beside and under (through a culvert system) the route along the main Training Area 2 Maneuver Trail. There will be no direct impact to the perennial stream in terms of mechanical alteration.

The EA (page 20) states that two wetlands were identified on the private land within the limits of the project. Construction would impact approximately 0.003 acres of palustrine emergent (PEM) wetlands located on private property. No wetlands on JBLE-FE property will be impacted. Proposed impacts to two small isolated wetlands may require a Joint Permit Application be submitted to the regulatory agencies. No mitigation is anticipated to be required for this project due to minimal size of the impacts.

**1(a) Agency Jurisdiction.** The State Water Control Board (SWCB) promulgates Virginia's water regulations, covering a variety of permits to include Virginia Pollutant Discharge Elimination System Permit, Virginia Pollution Abatement Permit, Surface and Groundwater Withdrawal Permit, and the Virginia Water Protection Permit (VWPP). The VWPP is a state permit which governs wetlands, surface water, and surface water withdrawals/impoundments. It also serves as § 401 certification of the federal *Clean Water Act* § 404 permits for dredge and fill activities in waters of the U.S. The VWPP Program is under the Office of Wetlands and Water Protection/Compliance, within the DEQ Division of Water Quality Programs. In addition to central office staff that review and issue VWP permits for transportation and water withdrawal projects, the six DEQ regional offices perform permit application reviews and issue permits for the covered activities.

**1(b) Agency Findings.** The VWPP program at DEQ's Tidewater Regional Office (DEQ-TRO) finds that the project, as proposed, will involve minor impacts to surface waters. Therefore, VWPP authorization is required.

**1(c) Recommendations.** In general, DEQ recommends that stream and wetland impacts be avoided to the maximum extent practicable. To minimize unavoidable impacts to wetlands and waterways, DEQ recommends the following practices:

- Operate machinery and construction vehicles outside of stream-beds and wetlands; use synthetic mats when in-stream work is unavoidable.
- Preserve the top 12 inches of trench material removed from wetlands for use as wetland seed and root-stock in the excavated area.
- Design erosion and sedimentation controls in accordance with the most current edition of the Virginia Erosion and Sediment Control Handbook. These controls should be in place prior to clearing and grading, and maintained in good working order to minimize impacts to State waters. The controls should remain in place until the area is stabilized.
- Place heavy equipment, located in temporarily impacted wetland areas, on mats, geotextile fabric, or use other suitable measures to minimize soil disturbance, to the maximum extent practicable.
- Restore all temporarily disturbed wetland areas to pre-construction conditions and plant or seed with appropriate wetlands vegetation in accordance with the cover type (emergent, scrub-shrub, or forested). The applicant should take all appropriate measures to promote revegetation of these areas. Stabilization and restoration efforts should occur immediately after the temporary disturbance of each wetland area instead of waiting until the entire project has been completed.
- Place all materials which are temporarily stockpiled in wetlands, designated for use for the immediate stabilization of wetlands, on mats, geotextile fabric in order to prevent entry in State waters. These materials should be managed in a manner that prevents leachates from entering state waters and must be entirely removed within thirty days following completion of that construction activity. The disturbed areas should be returned to their original contours, stabilized within

thirty days following removal of the stockpile, and restored to the original vegetated state.

- Flag or clearly mark all non-impacted surface waters within the project or right-ofway limits that are within 50 feet of any clearing, grading, or filling activities for the life of the construction activity within that area. The project proponent should notify all contractors that these marked areas are surface waters where no activities are to occur.
- Employ measures to prevent spills of fuels or lubricants into state waters.

**1(d) Requirements.** Surface water or wetland impacts will require authorization from DEQ-TRO under the VWPP program prior to any land disturbance. The project may require VWPP issued by DEQ-TRO or a U.S. Army Corps of Engineers (Corps) Nationwide Permit which has received Section 401 Water Quality Certification from DEQ.

The initiation of the VWPP review process is accomplished through the submission of a Joint Permit Application (JPA) (form MRC 30-300) to the Virginia Marine Resources Commission (VMRC). Upon receipt of a JPA for the proposed surface waters impacts, VWPP staff at DEQ-TRO will review the proposed project in accordance with the VWPP program regulations and guidance.

**1(e) Conclusion.** Provided that a VWPP or a Corps Nationwide Permit which has received Section 401 Water Quality Certification is obtained and complied with, the project will be consistent with the VWPP Program.

**2. Subaqueous Lands Impacts.** The Federal Consistency Determination section of the EA (Appendix E) states that no subaqueous land use is proposed under this action.

**2(a) Agency Jurisdiction.** The Virginia Marine Resources Commission (VMRC), pursuant to Section 28.2-1200 *et seq.* of the *Code of Virginia*, has jurisdiction over any encroachments in, on, or over any state-owned rivers, streams, or creeks in the Commonwealth.

VMRC serves as the clearinghouse for the JPA used by the:

- U.S. Army Corps of Engineers for issuing permits pursuant to Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act;
- DEQ for issuance of a Virginia Water Protection Permit;
- VMRC for encroachments on or over state-owned subaqueous beds as well as tidal wetlands; and
- local wetlands board for impacts to wetlands.

**2(b) Agency Findings.** VMRC finds that the proposed construction elements of the project will not impact state-owned subaqueous bottom based on information in the EA. Therefore, a permit from VMRC will not be required.

For additional information, contact VMRC, Mike Johnson at (757) 247-2255.

**3. Erosion and Sediment Control and Stormwater Management.** According to the EA (page 22), construction impacts could have a short-term effect on water resources by increasing stormwater runoff from the site and carrying sediment and contamination loads into nearby waters during heavy rain. Construction activities would comply with the *Virginia Erosion and Sediment Control Regulations* and the *Virginia Stormwater Management Regulations* to avoid or minimize erosion.

**3(a) Agency Jurisdiction.** DCR's Division of Stormwater Management (DSM) administers the Virginia Erosion and Sediment Control Law and Regulations (VESCL&R) and Virginia Stormwater Management Law and Regulations (VSWML&R).

#### 3(b) Requirements.

#### (i) Erosion and Sediment Control and Stormwater Management Plans

According to DCR-DSM, the Army/Air Force and its authorized agents conducting regulated land-disturbing activities on private and public lands in the state must comply with the VESCL&R, VSWML&R (including coverage under the general permit for stormwater discharge from construction activities), and other applicable federal nonpoint source pollution mandates (e.g., Clean Water Act Section 313 and federal consistency under the Coastal Zone Management Act). Clearing and grading activities, installation of staging areas, parking lots, roads, buildings, utilities, or other structures, soil or dredge spoil areas, or related land conversion activities that disturb 10,000 square feet or more (2,500 square feet or more in designated Chesapeake Bay Preservation Areas (CBPAs)), or areas on federal lands which are analogous to CPBAs, would be regulated by VESCL&R and VSWML&R. Accordingly, the Army/Air Force must prepare and implement an erosion and sediment control (ESC) plan to ensure compliance with state law and regulations. The ESC plan is submitted to the DCR Regional Office that serves the area where the project is located for review for compliance. The Army/Air Force is ultimately responsible for achieving project compliance through oversight of on site contractors, regular field inspection, prompt action against non-compliant sites, and other mechanisms consistent with agency policy. [Reference: VESCL §10.1-567].

#### (ii) Virginia Stormwater Management Program General Permit for Stormwater Discharges from Construction Activities

DCR is responsible for the issuance, denial, revocation, termination and enforcement of the Virginia Stormwater Management Program (VSMP) General Permit for Stormwater Discharges from Construction Activities related to municipal separate storm sewer systems (MS4s) and construction activities for the control of stormwater discharges from MS4s and land disturbing activities under the Virginia Stormwater Management Program.

The operator or owner of a construction project involving land-disturbing activities equal to or greater than one acre (2,500 square feet or more in areas analogous to CBPAs) is required to register for coverage under the General Permit for Discharges of Stormwater from Construction Activities and develop a project specific stormwater pollution prevention plan (SWPPP). The SWPPP must be prepared prior to submission of the registration statement for coverage under the general permit and the SWPPP must address water quality and quantity in accordance with the VSMP Permit Regulations. General information and registration forms for the General Permit are available on DCR's website at <a href="http://www.dcr.virginia.gov/stormwater\_management/stormwat.shtml">http://www.dcr.virginia.gov/stormwater\_management/stormwat.shtml</a>. [Reference: *Virginia Stormwater Management Act* §10.1-603.1 *et seq.*; *VSMP Permit Regulations* 4 VAC-50 *et seq.*]

**4. Chesapeake Bay Preservation Areas.** The EA does not discuss impacts to areas analogous to Chesapeake Bay Preservation Areas.

**4(a) Agency Jurisdiction.** The Department of Conservation and Recreation's Division of Stormwater Management Local Implementation (LI) (formerly the Division of Chesapeake Bay Local Assistance) administers the Chesapeake Bay Preservation Act (Virginia Code sections 10.1-2100 through 10.1-2114) and *Chesapeake Bay Preservation Area Designation and Management Regulations* (9 VAC 10-20 *et seq.*).

**4(b) Agency Comments.** In the City of Newport News, the areas protected by the *Chesapeake Bay Preservation Act*, as locally implemented, require conformance with performance criteria. These areas include Resource Protection Areas (RPAs) and Resource Management Areas (RMAs) as designated by the local government. RPAs include:

- tidal wetlands,
- certain non-tidal wetlands,
- tidal shores, and
- a 100-foot vegetated buffer area located adjacent to and landward of these features and along both sides of any water body with perennial flow.

RMAs, which require less stringent performance criteria, include:

- one hundred year floodplains,
- highly erodible soils (including steep slopes), and
- a minimum 100-foot area landward of the inland boundary of the RPA.

**4(c) Agency Findings.** DCR-DSM finds that limited clearing and land disturbance is proposed in areas that would be designated as RMA and RPA and subject to locally enforced CBPA regulations.

## 4(d) Requirements.

## (i) Construction in RPA and RMA

RPAs and RMAs are subject to the general performance criteria of 4 VAC 50-90-130 and must:

- minimize land disturbance,
- preserve indigenous vegetation, and
- minimize impervious cover.

If land disturbance is to exceed 2,500 square feet, the project must comply with the requirements of the *Virginia Erosion & Sediment Control Handbook*, Third Edition, 1992. Additionally, stormwater management criteria consistent with water quality protection provisions (4 VAC 3-20-17 *et seq.*) of the *Virginia Stormwater Management Regulations* (4 VAC 3-20) shall be satisfied.

In addition, the portions of the project within the RPA are subject to the development criteria of 4 VAC 50-90-140.

## (ii) Water Line Exemption

The construction, installation, operation and maintenance of water lines within a Chesapeake Bay Preservation Area are conditionally exempt from the *Chesapeake Bay Preservation Area Designation and Management Regulations* (4 VAC 50-90-150 B 2), provided that:

- to the degree possible, the location of such facilities should be outside RPA lands;
- no more land shall be disturbed than is necessary to provide for the proposed utility installation;
- all such construction, installation and maintenance of such utilities shall be in compliance with all applicable state and federal permits and designed and conducted in a manner that protects water quality; and
- 4. any land disturbance exceeding an area of 2,500 square feet complies with all erosion and sediment control requirements as referenced above.

#### (iii)1998 Federal Agencies' Chesapeake Ecosystem Unified Plan

The 1998 Federal Agencies' Chesapeake Ecosystem Unified Plan requires the signatories to fully cooperate with local and state governments in carrying out voluntary and mandatory actions to comply with the management of stormwater. The signatories also committed to encouraging construction design that minimizes natural area loss on new and rehabilitated federal facilities, adopts low impact development and best management technologies for stormwater and erosion and sediment control, and reduces impervious surfaces.

## (iv) Chesapeake 2000

In addition, the *Chesapeake 2000* agreement committed the government agencies to a number of sound land use and stormwater quality controls. The signatories additionally committed the agencies to lead by example with respect to controlling nutrient, sediment and chemical contaminant runoff from government properties. In December 2001, the Executive Council of the Chesapeake Bay Program issued *Directive No. 01-1: Managing Storm Water on State, Federal and District-owned Lands and Facilities,* which includes specific commitments for the signatories to lead by example with respect to stormwater control.

**4(e) Conclusion.** DCR-DSM-LI concludes that the proposed activity would be consistent with the Chesapeake Bay Preservation Act and *Regulations* provided the project adheres to the above requirements.

**5. Air Quality.** According to the EA (page 16), air quality impacts resulting from the proposed project would be limited to the intermittent use of a backup generator for the pump station as well as pollutant emissions associated with construction activities, including airborne dust from ground disturbance, operations, combustion byproducts from construction equipment and worker travel during construction. The amount of emissions generated during the construction and subsequent operation of the alternative water supply would be minor and would not substantially affect regional air quality in or around Newport News and the Hampton Roads Intrastate Air Quality Control Region (AQCR).

**5(a) Agency Jurisdiction.** DEQ's Division of Air Pollution Control, on behalf of the State Air Pollution Control Board, develops and administers the *State Air Pollution Control Board Regulations for the Control and Abatement of Air* Pollution pursuant to the Air Pollution Control Law. DEQ is charged to carry out mandates of the state law and regulations as well as Virginia's federal obligations under the Clean Air Act as amended in 1990. The objective is to protect and enhance public health and quality of life through control and mitigation of air pollution. The Division ensures the safety and quality of air in Virginia by monitoring and analyzing air quality data, regulating sources of air pollution, and working with local, state and federal agencies to plan and implement strategies to protect Virginia's air quality. The appropriate regional office is directly responsible for issuing necessary permits to construct and operate all stationary sources in the region as well as monitoring emissions from these sources for compliance. As a part of this mandate, environmental documents for new projects to be undertaken in the State are also reviewed. Some projects require additional evaluation under the general conformity provisions of state and federal law.

**5(b) Agency Findings.** According to the DEQ Air Division, the project site is located in an ozone maintenance and emission control area for oxides of nitrogen (NOx) and volatile organic compounds (VOC).

**5(c) Recommendation.** The Army/Air Force should take all reasonable precautions to limit emissions of VOCs and  $NO_x$ , principally by controlling or limiting the burning of fossil fuels.

#### 5(d) Requirements.

## (i) Fugitive Dust

Fugitive dust must be kept to a minimum by using control methods outlined in 9 VAC 5-50-60 *et seq.* of the *Regulations for the Control and Abatement of Air Pollution*. These precautions include, but are not limited to, the following:

- · Use, where possible, of water or chemicals for dust control;
- Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials;
- Covering of open equipment for conveying materials; and
- Prompt removal of spilled or tracked dirt or other materials from paved streets and removal of dried sediments resulting from soil erosion.

## (ii) Open Burning

If project activities include the open burning or use of special incineration devices for the disposal of land clearing debris, this activity must meet the requirements of 9 VAC 5-130-10 through 9 VAC 5-130-60 and 9 VAC 5-130-100of the *Regulations* for open burning, and it may require a permit. The *Regulations* provide for, but do not require, the local adoption of a model ordinance concerning open burning. The project proponent should contact City of Newport News officials to determine what local requirements, if any, exist.

#### (iii) Fuel Burning Equipment

The operation of the backup generator may require permitting from DEQ prior to beginning construction of the facility (9 VAC 5-80, Article 6, Permits for New and Modified Sources). The project proponent should contact DEQ-TRO for guidance on whether this provision applies.

6. Solid and Hazardous Waste Management. According to the EA (page 29), solid wastes in the project area are collected and disposed of in the landfill off Big Bethel Road in the City of Hampton. Recycling collection is provided both on JBLE-FE and in the City of Newport News. Less than one acre of land would be disturbed as a result of the proposed action. Excavation depths would be limited to eight feet. Given the minimal anticipated ground disturbance, hazardous materials impacts are not anticipated.

**6(a) Agency Jurisdiction.** Solid and hazardous wastes in Virginia are regulated by the Virginia Department of Environmental Quality, the Virginia Waste Management Board

(VWMB) and the U.S. Environmental Protection Agency. They administer programs created by the federal Resource Conservation and Recovery Act, the Comprehensive Environmental Response Compensation and Liability ("Superfund") Act, and the Virginia Waste Management Act. DEQ administers regulations established by the Waste Management Board and reviews permit applications for completeness and conformance with facility standards and financial assurance requirements. All Virginia localities are required, under the *Solid Waste Management Planning Regulations*, to identify the strategies they will follow on the management of their solid wastes, to include items such as facility siting, long-term (20-year) use, and alternative programs such as materials recycling and composting.

**6(b) Agency Comments.** According to DEQ's Division of Land Protection and Revitalization (DEQ-DLPR) (formerly the Waste Division), solid and hazardous waste issues were generally addressed in the submission, and the EA indicated a search of solid and hazardous waste databases was performed. The DEQ DLPR conducted a cursory database search within zip code 23604, and finds that five Resource Conservation and Recovery Act (RCRA) sites, one Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) site, and three petroleum release sites were identified. A list of these sites is included in DEQ-DLPR comments attached to this response.

#### 6(c) Recommendations.

#### (i) Data Base Search

DEQ-DLPR recommends that the Army/Air Force conduct a data base search of the project study area to identify any solid and hazardous waste sites that may impact or be impacted by the project. A list of data bases and guidance on performing searches is included in the comments submitted by DEQ-DLPR and attached to this response.

# (ii) Pollution Prevention

DEQ encourages all projects and facilities to implement pollution prevention principles, including the reduction, reuse, and recycling of all solid wastes generated. All hazardous wastes should be minimized, and managed properly

#### 6(d) Requirements.

#### (i) Solid and Hazardous Waste Management

Any soil that is suspected of contamination or wastes that are generated must be tested and disposed of in accordance with applicable federal, state, and local laws and regulations. All construction and demolition debris, including excess soil, must be characterized in accordance with the *Virginia Hazardous Waste Management Regulations* prior to disposal at an appropriate facility.

#### (ii) Asbestos-containing Material and Lead-based Paint

Affected structures should be checked for asbestos-containing materials (ACM) (such as insulation) and lead-based paint (LBP) prior to the installation of upgrades. If ACM or LBP are found, in addition to the federal waste-related regulations mentioned above, state regulations 9 VAC 20-80-640 for ACM and 9 VAC 20-60-261 for LBP must be followed.

Questions or requests for further information may be directed to DEQ-LPRD, Steve Coe at (804) 698-4029.

**7. Natural Heritage Resources**. According to the EA (page 25), a search of DCR's Natural Heritage Resources database indicated that there are no natural heritage resources within a two-mile radius of the project area.

#### 7(a) Agency Jurisdiction.

#### (i) Department of Conservation and Recreation

The mission of the Virginia Department of Conservation and Recreation (DCR) is to conserve Virginia's natural and recreational resources. The DCR-Natural Heritage Program's (DCR-DNH) mission is conserving Virginia's biodiversity through inventory, protection, and stewardship. The Virginia Natural Area Preserves Act, 10.1-209 through 217 of the Code of Virginia, was passed in 1989 and codified DCR's powers and duties related to statewide biological inventory: maintaining a statewide database for conservation planning and project review, land protection for the conservation of biodiversity, and the protection and ecological management of natural heritage resources (the habitats of rare, threatened, and endangered species, significant natural communities, geologic sites, and other natural features).

#### (ii) Department of Agriculture and Consumer Services

The Endangered Plant and Insect Species Act of 1979, Chapter 39, §3.1-102- through 1030 of the *Code of Virginia*, as amended, authorizes the Virginia Department of Agriculture and Consumer Services (VDACS) to conserve, protect and manage endangered species of plants and insects. The VDACS Virginia Endangered Plant and Insect Species Program personnel cooperates with the U.S. Fish and Wildlife Service, DCR-DNH and other agencies and organizations on the recovery, protection or conservation of listed threatened or endangered species and designated plant and insect species that are rare throughout their worldwide ranges. In those instances where recovery plans, developed by the U.S. Fish and Wildlife Service, are available, adherence to the order and tasks outlines in the plans are followed to the extent possible.

7(b) Agency Findings. DCR-DNH searched its Biotics Data System for occurrences of natural heritage resources from the project area.

# (i) Alternative 1: Shellabarger Drive

According to the information currently in DCR files, Hazel dodder (Cuscuta coryli, G5?/S2?/NL/NL) has been historically documented within the project site. Hazel dodder is a parasitic herb placed either under its own dodder family (Cuscutaceae) or within the morning glory (Convolvulaceae) family. It consists of an orange to yellow stem twining on a host plant which includes a variety of herbaceous and woody species (Weakley in prep.). Small, 4-5 parted, fleshy, white flowers form dense to loose clusters in mid to late summer. Found over much of the U.S. and Canada, hazel dodder is scattered around Virginia, with occurrences in the Coastal Plain, Ridge and Valley, and Northern Blue Ridge physiographic provinces. In Virginia it has been documented in highly variable, at least partially open, habitat including coastal marshes, dry greenstone glades in the Blue Ridge, and in dry forests over limestone in the Ridge and Valley. Threats include habitat destruction and herbicides. As some members of this genus can cause damage to cultivated plants, rare species of Cuscuta may be incidentally destroyed by efforts to protect crops (Cusick and Burns 1984). In order to accurately distinguish this rare dodder from more common species, surveys in Virginia need to be conducted during its blooming period, July-September.

## (ii) Alternative 2: Oakland Industrial Park

According to the information currently in DCR files, Hazel dodder has been historically documented downstream from the project site.

#### (iii) Threatened and Endangered Plant and Insect Species

VDACS has regulatory authority to conserve rare and endangered plant and insect species through the Virginia Endangered Plant and Insect Species Act. Under a Memorandum of Agreement established between VDACS and DCR, DCR has the authority to report for VDACS on state-listed plant and insect species. DCR finds that the current activity will not affect any documented state-listed plants or insects.

#### (iv) State Natural Area Preserves

DCR files do not indicate the presence of any State Natural Area Preserves under the agency's jurisdiction in the project vicinity.

#### 7(c) Recommendations.

#### (i) Erosion and Sediment Control

DCR recommends the implementation of and strict adherence to applicable state and local erosion and sediment control, and stormwater management laws and regulations to minimize adverse impacts to the aquatic ecosystem as a result of the proposed activities.

# (ii) Natural Heritage Resources

The Army/Air Force should contact DCR-DNH at (804) 786-7951 to secure updated information on natural heritage resources if a significant amount of time passes before the project is implemented. New and updated information is continually added to the Biotics Data System.

8. Wildlife Resources and Protected Species. According to the EA (page 25), the U.S. Fish and Wildlife Service's (USFWS) Information, Planning, and Conservation System (IPaC) indicated that no federally threatened or endangered wildlife species or federal candidate species are known to occur within the limits of the project area. Searches of the Virginia Department of Game and Inland Fisheries database indicated that there are no rare, threatened, or endangered floral or faunal species within a two mile radius of the project site.

**8(a) Agency Jurisdiction.** The Department of Game and Inland Fisheries (DGIF), as the Commonwealth's wildlife and freshwater fish management agency, exercises enforcement and regulatory jurisdiction over wildlife and freshwater fish, including state or federally listed endangered or threatened species, but excluding listed insects (Virginia Code Title 29.1). The DGIF is a consulting agency under the U.S. Fish and Wildlife Coordination Act (16 U.S.C. sections 661 *et seq.*), and provides environmental analysis of projects or permit applications coordinated through DEQ and several other state and federal agencies. DGIF determines likely impacts upon fish and wildlife resources and habitat, and recommends appropriate measures to avoid, reduce, or compensate for those impacts.

#### 8(b) Agency Findings.

# (i) Bald Eagle

According to DGIF records, bald eagle nests and concentration zones have been documented from the project area. Based on the scope and location of the proposed work, DGIF does not anticipate it to result in adverse impacts upon this species.

#### (ii) James River and Skiffes Creek Anadromous Fish Use Areas

The Warwick River, James River and Skiffes Creek have been designated Anadromous Fish Use Areas. Based on the scope and location of the proposed work, DGIF does not anticipate it to result in adverse impacts upon these resources.

#### 8(c) Recommendations.

# (i) Bald Eagle

DGIF recommends coordination with the USFWS regarding possible impacts upon bald eagles.

# (ii) General Protection of Wildlife Resources

DGIF offers the following general recommendations to minimize the adverse impacts of linear utility project development on wildlife resources:

- avoid and minimize impacts to undisturbed forest, wetlands, and streams to the fullest extent practicable;
- maintain naturally vegetated buffers of at least 100 feet in width around wetlands and on both sides of perennial and intermittent streams, where practicable;
- conduct significant tree removal and ground-clearing activities outside of the primary songbird nesting season of March 15 through August 15; and
- implement and maintain appropriate erosion and sediment controls throughout project construction and site restoration.

DGIF is available to work with the applicant to develop project-specific measures as necessary to minimize project impacts upon the Commonwealth's wildlife resources. DGIF understands that adherence to these general recommendations may be infeasible in some situations.

**8(d) Conclusion.** DGIF concludes that this project is consistent with the fisheries management enforceable policy of the Virginia Coastal Zone Management Program assuming adherence to erosion and sediment controls.

For additional information, contact DGIF, Amy Ewing at (804) 367-2211.

**9. Forest Resources.** According to the EA (page 25), approximately 0.81 acres of forested land would be disturbed. Approximately 0.32 acres would be affected on JBLE-FE property and 0.52 acres would be affected on private property. The disturbance would be linear, approximately 1,760 feet long and 20 feet wide. All other forest would remain intact. Given the limited acreage of forest that would be disturbed, and the linear nature of the disturbance, no mitigation is planned.

**9(a) Agency Jurisdiction.** The mission of the Virginia Department of Forestry (VDOF) is to protect and develop healthy, sustainable forest resources for Virginians. VDOF was established in 1914 to prevent and suppress forest fires and reforest bare lands. Since the Department's inception, it has grown and evolved to encompass other protection and management duties including: protecting Virginia's forests from wildfire, protecting Virginia's waters, managing and conserving Virginia's forests, managing state-owned lands and nurseries, and managing regulated incentive programs for forest landowners.

9(b) Agency Findings. VDOF finds that:

1. The forestland on the proposed site consists of mature hardwood forest but the loss should be minimal. According to the EA, approximately 0.81 acres of

forested land would be disturbed. While the proposed water line will traverse and bisect contiguous forest, the stated cleared width for the pipeline corridor is only 20 feet and should not create an adverse impact on the health of the forest ecosystem. Further, the water line will be buried when completed and the land above it managed in a grass state.

- 2. Best management practices are identified that when implemented will ensure that no trees outside the intended area of disturbance will be removed.
- Given the limited acreage of forest that would be disturbed, VDOF does not request off-site mitigation.
- 4. VDOF commends USAF policy stipulating that forest resources must be managed for long-term sustainability, and that management must be compatible with protecting federally-listed threatened and endangered species, maintaining biodiversity, protecting the Chesapeake Bay watershed, and providing wildlife habitat enhancement and outdoor recreational activities. In addition, the forest management program must fully comply with all applicable federal laws, policies, and regulations pertaining to forest management.

For additional information, contact VDOF, Greg Evans at (434) 220-9035 or Buck Kline at (434) 977-5193.

**10. Drinking Water.** Development of the EA was coordinated with the Virginia Department of Health, Office of Drinking Water (EA, Appendix A).

**10(a) Agency Jurisdiction.** The Virginia Department of Health (VDH), Office of Drinking Water (ODW) reviews projects for the potential to impact public drinking water sources (groundwater wells and surface water intakes).

**10(b) Agency Findings.** VDH-ODW finds that there are two groundwater wells located within a 1 mile radius of the project site owned by the City of Newport News. Well 1B is 1,723 feet away from the project site and Well 1A is located 1,832 feet away from the project site.

There are 2 surface water intakes in Zone 1 (within a 5 mile radius) that are owned by the City of Newport News. The Skiffes Creek surface water intake is 1.5 located miles upgradient of the project site and the Lee Hall surface water intake is located 1.23 miles away from the project site.

**10(c) Requirement.** The Army/Air Force must submit an application for a construction permit with the local VDH Field Office.

For additional information, contact VDH-ODW, Diedre Forsgren at (804) 864-7241.

**11. Transportation Impacts.** According to the EA (page 26), transportation-related impacts from the proposed action would be negligible. Lane closures may occur intermittently along Enterprise Drive in order to move equipment to and from the project

site. No full roadway closures are anticipated. Construction and worker vehicles are expected to have sufficient parking space.

**11(a) Agency Jurisdiction.** The Virginia Department of Transportation (VDOT) provides comments pertaining to potential impacts to existing and future transportation systems.

**11(b) Agency Findings.** The VDOT Hampton Roads Planning Office reviewed the project for impacts to existing and proposed transportation facilities in relationship to the proposed construction and operation of an alternative water supply system and booster station on the Fort Eustis portion of the Joint Base Langley-Eustis.

There are several projects under design in VDOT's Six Year Plan and the Hampton Roads 2034 Long Range Plan that improves traffic flow in this area. They include:

- UPC 98812 Route 60/143 Connector Study PE only James City County
- UPC 100200 Skiffes Creek Connector Study James City County
- UPC 13496 and 14598 Route 60 Relocation James City County and City of Newport News
- UPC 87201 Skiffes Creek Bridge/Route 60 Relocation James City County
- UPC 57313 Route 64 Widening from 4-8 lanes City of Newport News
- UPC 98570 Fort Eustis Boulevard guardrail over Lee Hall Reservoir City of Newport News
- UPC 91687 Replace Route 105 (Fort Eustis Boulevard) Bridge over CSX Railroad – City of Newport News
- UPC 14952 Warwick Boulevard Install cantilever flashing lights and gates City of Newport News
- UPC100856 Oakland Industrial Park sidewalk City of Newport News

The EA does not include a traffic analysis to validate traffic impacts. However, the anticipated traffic impact from the proposed redevelopment should be minimal and will not adversely impact traffic operations in this area.

**11(c) Conclusion.** VDOT concludes that this project will not have a negative impact on the transportation within the region.

For additional information, contact VDOT, Darryll D Lewis, P.E. at (757) 925-1622 or darryll.lewis@vdot.virginia.gov.

**12. Historic Structures and Archaeological Resources.** According to the EA (page 27), the USAF Civil Engineering Division reported in a letter to the Virginia Department of Historic Resources (DHR), dated January 4, 2013, that no historic properties are present in the project area. The document states that DHR issued its concurrence on January 23, 2013

**12(a) Agency Jurisdiction.** The Department of Historic Resources (DHR) conducts reviews of projects to determine their effect on historic structures or cultural resources under its jurisdiction. DHR, as the designated State's Historic Preservation Office, ensures that federal actions comply with Section 106 of the National Historic Preservation Act of 1966 (NHPA), as amended, and its implementing regulation at 36 CFR Part 800. The NHPA requires federal agencies to consider the effects of federal projects on properties that are listed or eligible for listing on the National Register of Historic Places. Section 106 also applies if there are any federal involvements, such as licenses, permits, approvals or funding.

**12(b) Agency Comments.** Pursuant to Section 106 NHPA, DHR has been in direct consultation with the Army/Air Force regarding this project (see EA, Appendix A) and the parties have reached consensus that the Alternative Water Supply System and Booster Station project will not affect historic properties.

For additional information, contact DHR, Roger Kirchen at (804) 482-6091.

#### 13. Regional Planning District.

**13(a) Jurisdiction.** In accordance with the Code of Virginia, Section 15.2-4207, planning district commissions encourage and facilitate local government cooperation and state-local cooperation in addressing, on a regional basis, problems of greater than local significance. The cooperation resulting from this is intended to facilitate the recognition and analysis of regional opportunities and take account of regional influences in planning and implementing public policies and services. Planning district commissions promote the orderly and efficient development of the physical, social and economic elements of the districts by planning, and encouraging and assisting localities to plan, for the future.

**13(b) Regional Comments.** The Hampton Roads Planning District Commission (HRPDC) reviewed the EA and consulted with the City of Newport News regarding the project. According to the HRPDC, the project appears to be consistent with local and regional plans and policies.

For additional information, contact HRPDC, Dwight Farmer at (757) 420-8300.

#### FEDERAL CONSISTENCY UNDER THE COASTAL ZONE MANAGEMENT ACT

Pursuant to the Coastal Zone Management Act of 1972, as amended, federal activities located inside or outside of Virginia's designated coastal management area that can have reasonably foreseeable effects on coastal resources or coastal uses must, to the maximum extent practicable, be implemented in a manner consistent with the Virginia Coastal Zone Management Program (VCP). The VCP consists of a network of programs administered by several agencies. The DEQ coordinates the review of Federal Consistency Determinations (FCD) with agencies administering the Enforceable

and Advisory Policies of the VCP. A FCD is included in the EA (Appendix E) which includes an analysis of project impacts on the enforceable policies of the VCP.

Pursuant to 15 CFR §930.41(a) DEQ is allowed up to sixty days to conduct a coordinated review and respond to submitted Federal Consistency Determinations. The sixty-day review period for the Army/Air Force's FCD began on March 29, 2013 and ends on May 24, 2013.

#### Federal Consistency Public Participation

In accordance with 15 CFR § 930.2, public notice of the proposed action was published on DEQ's web site from April 2, 2013 to April 30, 2013. No public comments were received in response to the notice.

#### Federal Consistency Analysis

According to information in the FCD, the proposed activity would have no effect on the following enforceable policies: fisheries management; subaqueous lands management; dunes management; point source pollution control; and shoreline sanitation. The resource agencies that are responsible for the administration of the enforceable policies of the VCP generally agree with findings of the FCD. The applicant must ensure that the proposed action is consistent with the aforementioned policies. In addition, DEQ encourages that Army/Air Force to consider potential project impacts to the advisory policies (Attachment 2) of the VCP.

#### Federal Consistency Concurrence

Based on our review of the Army/Air Force's consistency determination, EA, and the comments and recommendations submitted by agencies administering the enforceable policies of the VCP, DEQ concurs that this proposal is consistent with the VCP provided the Army/Air Force obtains and complies with all applicable permits or approvals. Also, other state approvals which may apply to this project are not included in this concurrence. Therefore, the Army/Air Force must ensure that this project is constructed and operated in accordance with all applicable federal, state, and local laws and regulations.

#### **REGULATORY AND COORDINATION NEEDS**

**1. Surface Waters and Wetlands.** A Virginia Water Protection Permit may be required for project impacts pursuant to Virginia Code §62.1-44.15:5. Coordination with the appropriate agencies for anticipated impacts is accomplished through the submission of a JPA to VMRC. For additional information regarding the VWPP program, contact DEQ-TRO, Bert Parolari at (757) 518-2166.

# 2. Nonpoint Source Pollution.

**2(a) Erosion and Sediment Control and Stormwater Management Plans**. The Army/Air Force must ensure that it is in compliance with *Virginia's Erosion and Sediment Control Law* (Virginia Code 10.1-567) and *Regulations* (4 VAC 50-30-30 *et seq.*) and *Stormwater Management Law* (Virginia Code 10.1-603.5) and *Regulations* (4 VAC 3-20-210 *et seq.*). Land-disturbing activities equal to or greater than 10,000 square feet (2,500 square feet or more and lands analogous to CBPAs) would be regulated by *VESCL&R* and *VSWML&R*. The Army/Air Force is encouraged to contact DCR's Suffolk Regional Office at (757) 925-2468, for assistance with developing or implementing ESC and SWM plans to ensure project conformance.

**2(b) Virginia Stormwater Management Program General Permit for Stormwater Discharges from Construction Activities.** For projects involving land-disturbing activities of equal to or greater than one acre (2,500 square feet or more and lands analogous to CBPAs), the Army/Air Force is required to develop a project-specific stormwater pollution prevention plan and apply for registration coverage under the Virginia Stormwater Management Program General Permit for Discharges of Stormwater from Construction Activities (*VSMP Permit Regulations* 4 VAC-50 *et seq.*). Specific questions regarding the Stormwater Management Program requirements should be directed to Holly Sepety, DCR, at (804) 225-2613.

**3. Chesapeake Bay Preservation Areas.** This project must be consistent to the maximum extent practicable with the coastal lands management enforceable policy of the VCP as administered by DCR-DSM-LI through the *Chesapeake Bay Preservation Area Designation and Management Regulations* (9 VAC 10-20 *et seq.*). Project activities in areas analogous to CBPAs must comply with the conditions found at 4 VAC 50-90-150 B 2 to qualify for an exemption under the *Regulations*. The Army/Air Force must coordinate with DCR-DSM-LI, Nancy Miller at (804) 225-3441, to ensure compliance with the *Regulations*.

**4. Air Quality.** This project may be subject to air quality regulations administered by the Department of Environmental Quality. The following sections of Virginia Administrative Code are applicable:

- 9 VAC 5-50-60 et seq. governing fugitive dust emissions; and
- 9 VAC 5-130 et seq., for open burning.

In addition, a permit may be required for any fuel-burning equipment. For more information and coordination contact DEQ-TRO, Troy Breathwaite at (757) 518-2106. Also, contact local Newport News officials for information on any local requirements pertaining to open burning.

**5. Waste Management.** All solid waste, hazardous waste, and hazardous materials must be managed in accordance with all applicable federal, state, and local environmental regulations. Some of the applicable state laws and regulations are:

- Virginia Waste Management Act (Code of Virginia Section 10.1-1400 et seq.);
- Virginia Hazardous Waste Management Regulations (VHWMR) (9 VAC 20-60);
- Virginia Solid Waste Management Regulations (VSWMR) (9 VAC 20-81);
- Virginia Vegetative Waste Management Regulations (9 VAC 20-101 et seq.); and
- Virginia Regulations for the Transportation of Hazardous Materials (9 VAC 20-110).

Some of the applicable Federal laws and regulations are:

- Resource Conservation and Recovery Act (RCRA) (42 U.S.C. Section 6901 *et seq.*, and the applicable regulations contained in Title 40 of the Code of Federal Regulations); and
- U.S. Department of Transportation Rules for Transportation of Hazardous materials (49 CFR Part 107).

For additional information, contact DEQ-TRO, Milt Johnston at (757) 518-2151.

**5(a) Asbestos-Containing Material.** If applicable, the owner or operator of a demolition activity, prior to the commencement of the activity, is responsible to thoroughly inspect affected structures for the presence of asbestos, including Category I and Category II nonfriable asbestos containing material (ACM). Upon classification as friable or non-friable, all waste ACM shall be disposed of in accordance with the Virginia Solid Waste Management Regulations (9 VAC 20-80-640), and transported in accordance with the Virginia regulations governing Transportation of Hazardous Materials (9 VAC 20-110-10 et seq.). Contact the DEQ Division of Land Protection and Revitalization (formerly the Waste Division), Linda Richardson at (804) 698-4318 and the Department of Labor and Industry, Ronald L. Graham (804) 786-0574 for additional information.

**5(b) Lead-Based Paint.** If applicable, this project must comply with the U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) regulations, and with the Virginia Lead-Based Paint Activities Rules and Regulations. For additional information regarding these requirements contact the Department of Professional and Occupational Regulation, David Dick at (804) 367-8588.

6. Storage Tanks. The applicant must coordinate the removal, relocation or closure of any regulated petroleum ASTs or USTs with DEQ-TRO, Tom Madigan at (757) 518-2115 or temadigan@deq.virginia.gov in accordance with the requirements of the *Virginia Tank Regulations* (9 VAC 25-91-10 *et seq.* for ASTs and/or 9 VAC 25-580-10 *et seq.* for USTs).

The use of portable fuel AST(s) with a capacity of greater than 660 gallons and used for more than 120 days must be registered with DEQ using *AST Registration Form 7540-AST*. Tank registration may be accomplished by contacting DEQ-TRO, Tom Madigan at (757) 518-2115 or temadigan@deq.virginia.gov.

**7. Natural Heritage Resources.** Contact DCR-DNH, Rene Hypes at (804) 371-2708, to secure updated information on natural heritage resources if a significant amount of time passes before the project is implemented, since new and updated information is continually added to the Biotics Data System.

8. Wildlife Resources. Contact DGIF, Amy Ewing at (804) 367-2211, to develop project-specific measures as necessary to minimize project impacts upon wildlife resources.

**9. Waterworks Regulations.** The Virginia Department of Health administers both federal and state laws governing potable water. Contact VDH regarding any regulatory requirements under 12 VAC 5-590-10 *et seq.* that may be applicable to the proposed water main replacement project. In addition, potential impacts to public water distribution systems must be verified by the local utility. For more information and coordination, contact the Department of Health, Southeast Virginia Field Office #3 at (757) 683-2000.

Thank you for the opportunity to review the Draft Environmental Assessment and Federal Consistency Determination for the alternate water supply system and booster station at Joint Base Langley-Fort Eustis in the City of Newport News. Detailed comments of reviewing agencies are attached for your review. Please contact me at (804) 698-4325 or John Fisher at (804) 698-4339 for clarification of these comments.

Sincerely,

Elle Is

Ellie L. Irons, Program Manager Environmental Impact Review

enclosures

Ec: Amy M. Ewing, DGIF Keith R. Tignor, VDACS Roberta Rhur, DCR Barry Matthews, VDH Steve Coe, DEQ-DLPR Kotur S. Narasimhan, DEQ-DAPC Cindy Keltner, DEQ-TRO Tony Watkinson, VMRC Greg Evans, VDOF Buck Kline, VDOF Chip Ray, VDOT Roger W. Kirchen, DHR Dwight Farmer, HRPDC

Sheila Mcallister, City of Newport News Nick Nies, WR&A, LLP

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#### DEPARTMENT OF ENVIRONMENTAL QUALITY TIDEWATER REGIONAL OFFICE ENVIRONMENTAL IMPACT REVIEW COMMENTS

May 13, 2013

#### PROJECT NUMBER: 13-060F

MAY 1 3 2013 DEQ=Office of Environmental Impact Review

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PROJECT TITLE: Alternate Water Supply System and Booster Station

As Requested, TRO staff has reviewed the supplied information and has the following comments:

#### **Petroleum Storage Tank Cleanups:**

There have been no petroleum releases at or adjacent to the preferred alternative for the proposed project. If evidence of a petroleum release is discovered during implementation of this project, it must be reported to DEQ, as authorized by Virginia Code # 62.1-44.34.8 through 9 and 9 VAC 25-580-10 et seq. Contact Ms. Rebecca Gehring at (757) 518-2190 or Mr. Gene Siudyla at (757) 518-2117. Petroleum-contaminated soils and ground water generated during the implementation of this project must be properly characterized and disposed of properly.

#### Petroleum Storage Tank Compliance/Inspections:

Installation and operation of any regulated petroleum storage tank(s) either AST or UST must also be conducted in accordance with the Virginia Regulations 9 VAC 25-91-10 et seq and / or 9 VAC 25-580-10 et seq. Please contact Tom Madigan (757) 518-2115 for additional details.

The installation or use of any portable aboveground petroleum storage tank (>660 gallons – 9 VAC 25-91-10 et seq.) for more than 120 days for this project must be reported to the DEQ Tidewater Regional Office Petroleum Storage Tank Program attn: Tom Madigan – DEQ Tidewater Regional Office – 5636 Southern Blvd., Virginia Beach, VA 23462. Phone (757) 518-2115.

#### Virginia Water Protection Permit Program (VWPP):

A review of the submitted information indicates that the project as proposed will involve minor impacts to surface waters and VWP authorization is required. Provided that a VWP permit or a U.S. Army Corps of Engineers Nationwide Permit which has received Section 401 Water Quality Certification is obtained and complied with, the project will be consistent with the VWP Program.

#### Air Permit Program :

A permit to construct and operate under 9 VAC 5 Chapter 80, Article 6, may be required for the operation of the backup generator. In addition, the fugitive dust provisions of 9 VAC 5 Chapter 40 of the Commonwealth of Virginia's Regulations for the Control and Abatement of Air Pollution will apply.



#### DEPARTMENT OF ENVIRONMENTAL QUALITY TIDEWATER REGIONAL OFFICE ENVIRONMENTAL IMPACT REVIEW COMMENTS

#### May 13, 2013

#### PROJECT NUMBER: 13-060F

#### PROJECT TITLE: Alternate Water Supply System and Booster Station

#### Water Permit Program :

Water Permits - Construction activities will require a storm water construction permit from DCR. On July 1, 2013, this permitting program will transfer from DCR to DEQ, so if the permit application is submitted after July 1, 2013, the applicant will need to submit to DEQ, nit DCR.

Ground Water - No comments

#### Waste Permit Program :

All construction and demolition debris, including excess soil, must be characterized in accordance with the Virginia Hazardous Waste Management Regulations prior to disposal at an appropriate facility.

The staff from the Tidewater Regional Office thanks you for the opportunity to provide comments.

Sincerely,

Cindy Keltner Environmental Specialist II 5636 Southern Blvd. VA Beach, VA 23462 (757) 518-2167 Cindy.Keltner@deq.virginia.gov

#### Fisher, John (DEQ)

| From:    | Johnson, Mike (MRC)             |
|----------|---------------------------------|
| Sent:    | Tuesday, April 09, 2013 1:34 PM |
| To:      | Fisher, John (DEQ)              |
| Subject: | #13-060F                        |

Good afternoon John,

I have reviewed the documents provided for the Consistency Determination for the Alternate Water Supply and Booster Station on Joint Base Langley/Eustis. The documents provided indicate that the proposed construction elements of the project will not impact state-owned subaqueous bottom and therefore a permit from the Virginia Marine Resources Commission will not be required.

Please be advised that the Commission, pursuant to Section 28.2-1200 et seq of the Code of Virginia, has jurisdiction over any encroachments in, on, or over the beds of the bays, ocean, rivers, streams, or creeks which are the property of the Commonwealth. If changes are made to the proposed construction activities and these activities impact areas under the jurisdiction of this agency then a permit will be required and a Joint Permit Application should be submitted detailing the impacts to state-owned subaqueous bottom.

Thank you for the opportunity to comment.

Mike Johnson Habitat Management Division VMRC 2600 Washington Ave. Newport News, Va 23607 757-247-2255



David A. Johnson Director

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APR 2 9 2013

DEQ-Office of Environmental

Impact Review

COMMONWEALTH of VIRGINIA

# DEPARTMENT OF CONSERVATION AND RECREATION

203 Governor Street Richmond, Virginia 23219-2010 (804) 786-1712

#### MEMORANDUM

DATE: April 24, 2013

TO: John Fisher, DEQ

FROM: Roberta Rhur, Environmental Impact Review Coordinator

SUBJECT: DEQ 13-060F, Dept of the Army – Alternate Water Supply System and Booster Station, City of Newport News

#### **Division of Natural Heritage**

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.

#### Alternative 1: Shellabarger Drive

According to the information currently in our files, Hazel dodder (*Cuscuta coryli*, G5?/S2?/NL/NL) has been historically documented within the project site. Hazel dodder is a parasitic herb placed either under its own dodder family (Cuscutaceae) or within the morning glory (Convolvulaceae) family. It consists of an orange to yellow stem twining on a host plant which includes a variety of herbaceous and woody species (Weakley in prep.) Small, 4-5 parted, fleshy, white flowers form dense to loose clusters in mid to late summer. Found over much of the U.S. and Canada, hazel dodder is scattered around Virginia, with occurrences in the Coastal Plain, Ridge and Valley, and Northern Blue Ridge physiographic provinces. In Virginia it has been documented in highly variable, at least partially open, habitat including coastal marshes, dry greenstone glades in the Blue Ridge, and in dry forests over limestone in the Ridge and Valley. Threats include habitat destruction and herbicides. As some members of this genus can cause damage to cultivated plants, rare species of *Cuscuta* may be incidentally destroyed by efforts to protect crops (Cusick and Burns 1984). In order to accurately distinguish this rare dodder from more common species, surveys in Virginia need to be conducted during its blooming period, July-September.

To minimize adverse impacts to the aquatic ecosystem as a result of the proposed activities, DCR recommends the implementation of and strict adherence to applicable state and local erosion and sediment control/storm water management laws and regulations.

#### Alternative 2: Oakland Industrial Park

According to the information currently in our files, Hazel dodder has been historically documented downstream from the project site.

To minimize adverse impacts to the aquatic ecosystem as a result of the proposed activities, DCR recommends the implementation of and strict adherence to applicable state and local erosion and sediment control/storm water management laws and regulations.

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

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.

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.

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 <u>http://vafwis.org/fwis/</u> or contact Gladys Cason (804-367-0909 or <u>Gladys.Cason@dgif.virginia.gov</u>).

#### **Division of Stormwater Management**

#### Chesapeake Bay Local Assistance:

In the City of Newport News, the areas protected by the *Chesapeake Bay Preservation Act*, as locally implemented, require conformance with performance criteria. These areas include Resource Protection Areas (RPAs) and Resource Management Areas (RMAs) as designated by the local government. RPAs include tidal wetlands, certain non-tidal wetlands and tidal shores. RPAs also include a 100-foot vegetated buffer area located adjacent to and landward of these features and along both sides of any water body with perennial flow. RMAs, which require less stringent performance criteria, include one hundred year floodplains, highly erodible soils (including steep slopes), and a minimum 100-foot area landward of the inland boundary of the RPA.

Pursuant to the *Coastal Zone Management Act* (the Management Act) of 1972, as amended, Federal activities affecting Virginia's coastal resources or coastal uses must be consistent with the Virginia Coastal Zone Management Program (Section 307(c)(1) of the Management Act and 15 CFR Part 930, sub-part C of the *Federal Consistency Regulations*).

The Proposed Action includes installation of the following design features; meter vault, backflow preventer, water booster station, approximately 2,450 linear feet of buried 12"

pipe, and crush and run maintenance access road approximately 1,700 linear feet long and 12 feet wide. A secondary connection would provide redundant water service to account for potential future water outages, which would improve system reliability. In order to meet demands, construction shall be completed, with the alternate water supply system fully operational, no later than September 30, 2013. Limited clearing and land disturbance is proposed in areas that would be designated as RMA and RPA and subject to locally enforced CBPA regulations. These areas are subject to the general performance criteria of § 4 VAC 50-90-130 and must minimize land disturbance, preserve indigenous vegetation and

minimize impervious cover. If land disturbance is to exceed 2,500 square feet, the project must comply with the requirements of the *Virginia Erosion & Sediment Control Handbook*, Third Edition, 1992. Additionally, stormwater management criteria consistent with water quality protection provisions (§ 4 VAC 3-20-17 et. seq.) of the *Virginia Stormwater Management Regulations* (§ 4 VAC 3-20) shall be satisfied. The portions of the project within the RPA are also subject to the development criteria of § 4 VAC 50-90-140. Land disturbance, development or redevelopment activities within this area must be consistent with § 4 VAC 50-90-150 B 2.

The Chesapeake Bay Preservation Act and Regulations are incorporated in the Virginia Coastal Zone Management Program. Federal Consistency regulations implementing the Coastal Zone Management Act require that federal actions, and/or projects requiring federal approvals or assistance that may impact natural resources in a coastal zone, must be conducted in a manner consistent to the maximum extent practicable with the enforceable policies of a coastal state's federally approved coastal management program.

The 1998 Federal Agencies' Chesapeake Ecosystem Unified Plan requires the signatories to fully cooperate with local and state governments in carrying out voluntary and mandatory actions to comply with the management of stormwater. The signatories also committed to encouraging construction design that minimizes natural area loss on new and rehabilitated federal facilities, adopts low impact development and best management technologies for stormwater and erosion and sediment control, and reduces impervious surfaces. In addition, the Chesapeake 2000 agreement committed the government agencies to a number of sound land use and stormwater quality controls. The signatories additionally committed the agencies to lead by example with respect to controlling nutrient, sediment and chemical contaminant runoff from government properties. In December 2001, the Executive Council of the Chesapeake Bay Program issued Directive No. 01-1: Managing Storm Water on State, Federal and District-owned Lands and Facilities, which includes specific commitments for the signatories to lead by example with respect to stormwater on storm by the storm water control.

Provided adherence to the above requirements, the proposed activity would be consistent with the *Chesapeake Bay Preservation Act* and Regulations.

#### Stormwater Management:

The applicant and their authorized agents conducting regulated land disturbing activities on private and public lands in the state must comply with the Virginia Erosion and Sediment Control Law and Regulations (VESCL&R), Virginia Stormwater Management Law and Regulations including coverage under the general permit for stormwater discharge from construction activities, and other applicable federal nonpoint source pollution mandates (e.g. Clean Water Act-Section 313, Federal Consistency under the Coastal Zone Management Act). Clearing and grading activities, installation of staging areas, parking lots, roads, buildings, utilities, borrow areas, soil stockpiles, and related land-disturbance activities that result in the land-disturbance of equal to or greater than 2,500 for lands within designated RPAs and RMAs or equal to or greater than 10,000 square feet for all other areas, would be regulated by VESCL&R. Accordingly, the applicant must prepare and implement erosion and sediment control (ESC) plan to ensure compliance with state law and regulations. The applicant is ultimately responsible for achieving project compliance through oversight of on site contractors, regular field inspection, prompt action against non-compliant sites, and other mechanisms consistent with agency policy. [Reference: VESCL §10.1-567;].

The operator or owner of construction activities involving land disturbing activities equal to or greater than one acre are required to register for coverage under the General Permit for Discharges of Stormwater from Construction Activities and develop a project specific stormwater pollution prevention plan (SWPPP). Construction activities requiring registration also includes the land-disturbance of less than
one acre of total land area that is part of a larger common plan of development or sale if the larger common plan of development will ultimately disturb equal to or greater than one acre. The SWPPP must be prepared prior to submission of the registration statement for coverage under the general permit and the SWPPP must address water quality and quantity in accordance with the Virginia Stormwater Management Program (VSMP) Permit Regulations. General information and registration forms for the General Permit are available on DCR's website at

http://www.dcr.virginia.gov/soil and water/index.shtml

[Reference: Virginia Stormwater Management Law Act §10.1-603.1 et seq.; VSMP Permit Regulations §4VAC-50 et seq.]

For lands that fall within Chesapeake Bay areas:

The operator or owner of construction activities involving land disturbing activities equal to or greater than 2,500 square feet in areas designated as subject to the Chesapeake Bay Preservation Area Designation and Management Regulations adopted pursuant to the Chesapeake Bay Preservation Act are required to register for coverage under the General Permit for Discharges of Stormwater from Construction Activities and develop a project specific stormwater pollution prevention plan (SWPPP). The SWPPP must be prepared prior to submission of the registration statement for coverage under the general permit and the SWPPP must address water quality and quantity in accordance with the Virginia Stormwater Management Program (VSMP) Permit Regulations. General information and registration forms for the General Permit are available on DCR's website at

http://www.dcr.virginia.gov/soil and water/index.shtml

[Reference: Virginia Stormwater Management Law Act §10.1-603.1 et seq.; VSMP Permit Regulations §4VAC-50 et seq.]

The remaining DCR divisions have no comments regarding the scope of this project. Thank you for the opportunity to comment.

#### Literature Cited

Cusick, A.W. and J. Burns. 1984. *Cuscuta coryli* Engelm.Hazel Dodder fact sheet. Ohio Department of Natural Resources, Division of Natural Areas and Preserves. Available at: http://www.dnr.state.oh.us/Portals/3/Abstracts/Abstract\_pdf/C/Cuscuta\_coryli.pdf

Weakley, A. In prep. Flora of the southern and mid-Atlantic states. Working draft of 15 May 2011. University of North Carolina Herbarium, North Carolina Botanical Garden, University of North Carolina at Chapel Hill, NC.

# DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR PROGRAM COORDINATION

| ENVIRO  | MENTAL REVIEW COMMENTS APPLICABLE TO AIR QUALITY                                 |      |
|---|--|------|
| TO: John E. Fisher  | DEQ - OEIA PROJECT NUMBER: 13 - 060F RECEIVED                                    | l.   |
| PROJECT TYPE:   | STATE EA / EIR X FEDERAL EA / EIS SCC APR 10 2013                                |      |
|   | X CONSISTENCY DETERMINATION DEQ-Office of Environmenta<br>Impact Review          | al I |
| PROJECT TITLE: AL   | ERNATE WATER SUPPLY SYSTEM AND BOOSTER STATION                                   |      |
| PROJECT SPONSOR   | DOD / DEPARTMENT OF THE ARMY   |      |
| PROJECT LOCATION  | : X OZONE MAINTENANCE AND<br>EMISSION CONTROL AREA FOR NOX & VOC                 |      |
| REGULATORY REQU   | IREMENTSMAY BE APPLICABLE TO: X CONSTRUCTION                                     |      |
| 1.       9       9       VAC 5-40-5         2.       9       VAC 5-40-5         3.       9       VAC 5-40-5         3.       9       VAC 5-40-5         4.       X       9       VAC 5-130         5.       X       9       VAC 5-50-4         6.       9       VAC 5-50-4         7.       9       VAC 5-50-4         9       VAC 5-50-4       designates s         9.       9       VAC 5-80-4         10.       9       VAC 5-80-4         9       VAC 5-80-4       PSD areas.         11.       9       VAC 5-80-2         non-attainme       12.       9         12.       9       VAC 5-80-8         may be applicable       10 | 00 et seq. Of the regulations – Operating Permits and exemptions. This rule<br>o |      |
| COMMENTS SPECIFI  | TO THE PROJECT:  |      |

All precautions are necessary to restrict the emissions of volatile organic compounds (VOC) and oxides of nitrogen ( $NO_X$ ). For any permit needs, our Tidewater regional Office may be consulted.

Ks. Saul

(Kotur S. Narasimhan) Office of Air Data Analysis

DATE: April 10, 2013





## MEMORANDUM

| то:      | John Fisher, Environmental Program Planner   |  |
|----------|--|--|
| FROM:    | Steve Coe, Division of Land Protection & Revitalization Review Coordinator   |  |
| DATE:    | April 24, 2013   |  |
| COPIES:  | Sanjay Thirunagari, Division of Land Protection & Revitalization Review Manager; file  |  |
| SUBJECT: | Environmental Impact Statement: Project #13-060F Alternate Water Supply System with<br>Booster Station at Joint Base Langley-Eustis Newport News, VA 23604.                        |  |
|          | f Land Protection & Revitalization (DLPR) has completed its review of the Environmental<br>st for the construction/implementation of an Alternate Water Supply System with Booster |  |

Review Request for the construction/implementation of an Alternate Water Supply System with Booster Station at Joint Base Langley-Eustis Newport News, VA 23604.

Solid and hazardous waste issues were generally addressed in the submittal, and the submittal indicated a search of solid and hazardous waste databases. The DEQ DLPR staff has reviewed the submittal, conducted a cursory database search for zip code 23604, and has the following comments concerning possible waste issues associated with the project:

## RCRA sites: five

- 1) ID# VAR000005702 ASF No 92, Bldg 2407 Felker Airfield, Ft Eustis, VA 23604. Contact: Michelle Brown at 804-233-2181.
- ID# VAR000005694 ECS No 93, Bldg 2505 Jackson Avenue, Fort Eustis, VA 23604. Contact Michelle Brown at 804-233-2181.
- ID# VA0000076364 O&K Escalators Inc., 182 Enterprise Drive, Newport News, VA 23604. Conact Patricia Honey at 804-888-6666.
- ID# VA8213720321 U.S. Army Garrison Fort Eustis, B1208 Taylor Road, Fort Eustis, VA 23604. Contact James McKown at 757-878-4123.
- 5) ID# VA3210000946 U.S. E. L. Hamm & Assoc Ft Eustis, Trailer behind Bldg 1204, Fort Eustis, VA 23604. Contact Norman Giebink at 804-878-0977.

## **CERLCLA sites:** one

ID# VA6210020321 – Fort Eustis (U.S. Army), Newport News, VA 23604. NPL Status: Final NPL.

## Solid Waste sites: none

#### VRP sites: none

#### FUDs: one

Fort Eustis. FUDs # C03VA0029. FFID # VA9799F771.

#### Petroleum Release sites: three

- ID# 19944333 Fort Eustis, 1407 Washington Blvd, Fort Eustis, VA 23604. Event Date: 12/7/2006. Status: Closed.
- ID# 19942759 Fort Eustis, 1407 Washington Blvd, Fort Eustis, VA 23604. Event Date: 11/27/2006. Status: Closed.
- ID# 19952220 Fort Eustis, 1407 Washington Blvd, Fort Eustis, VA 23604. Event Date: 12/27/2006. Status: Closed.

Please note that the DEQ's petroleum contamination (PC) case files may identify petroleum releases that should be evaluated by the project engineer or manager to establish the exact location of the release and the nature and extent of the petroleum release and the potential to impact the proposed project. The facility representative should contact the DEQ's Tidewater Regional Office at 757-518-2000 (Tank Program) for further information and the administrative records of the PC cases which are determined to be in close proximity to the proposed project.

#### **GENERAL COMMENTS**

#### Soil, Sediment, and Waste Management

Any soil that is suspected of contamination or wastes that are generated must be tested and disposed of in accordance with applicable Federal, State, and local laws and regulations. Some of the applicable state laws and regulations are: Virginia Waste Management Act, Code of Virginia Section 10.1-1400 *et seq.*; Virginia Hazardous Waste Management Regulations (VHWMR) (9VAC 20-60); Virginia Solid Waste Management Regulations (VHWMR) (9VAC 20-60); Virginia Solid Waste Management Regulations (VSWMR) (9VAC 20-81); Virginia Regulations for the Transportation of Hazardous Materials (9VAC 20-110). Some of the applicable Federal laws and regulations are: the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. Section 6901 *et seq.*, and the applicable regulations contained in Title 40 of the Code of Federal Regulations; and the U.S. Department of Transportation Rules for Transportation of Hazardous Materials, 49 CFR Part 107.

#### Asbestos and/or Lead-based Paint

All structures being demolished/renovated/removed should be checked for asbestos-containing materials (ACM) and lead-based paint (LBP) prior to demolition. If ACM or LBP are found, in addition to the federal waste-related regulations mentioned above, State regulations 9VAC 20-81-620 for ACM and 9VAC 20-60-261 for LBP must be followed. For questions contact DEQ's Tidewater Regional Office, Lisa Silvia, at 757-518-2175.

### Pollution Prevention - Reuse - Recycling

Please note that DEQ encourages all construction projects and facilities to implement pollution prevention principles, including the reduction, reuse, and recycling of all solid wastes generated. All generation of hazardous wastes should be minimized and handled appropriately.

If you have any questions or need further information, please contact Steve Coe at (804) 698-4029.

### Environmental Impact Review - General Guidance for database searches

When the environmental impact report is written or compiled for specific sites, it should include an environmental investigation on and near the properties selected in order to identify any solid or hazardous waste sites or issues related to the (project area). The report author should analyze the data in the webbased Waste Division databases to determine if the project would affect or be affected by any sites identified in the databases. The databases include the Permitted Solid Waste Management Facilities, Virginia Environmental Geographic Information Systems (Solid Waste, Voluntary Remediation Program, and Petroleum Release sites), CERCLA Facilities, and Hazardous Waste Facilities databases.

The Permitted Solid Waste Management Facilities Database A list of active solid waste facilities in Virginia.

<u>CERCLA Facilities Database</u> A list of active and archived CERCLA (EPA Superfund Program) sites.

#### Hazardous Waste Facilities Database

A list of hazardous waste generators, hazardous waste transporters, and hazardous waste storage and disposal facilities. Data for the CERCLA Facilities and Hazardous Waste Facilities databases are periodically downloaded by the Waste Division from U.S. EPA's website.

<u>Virginia Environmental Geographic Information Systems (VEGIS)</u> The "What's in My Backyard" application displays cross-media geographical features in proximity to a selected site/address for different facility search parameters.

#### Accessing the DEQ Databases:

The report author should access this information on the DEQ website at

#### http://www.deq.virginia.gov/Programs/LandProtectionRevitalization/ReportsPublications/OriginalReports.aspx.

Scroll down to the databases which are listed under Real Estate Search Information heading.

Initially, the *solid waste information* can be accessed by clicking on the <u>Permitted Solid Waste</u> <u>Management Facilities</u> link and opening the file. You can search by city/county or region (zip code) for active permitted waste facilities. (Note: A targeted solid waste facility search can be accomplished through the **VEGIS** link - see information below re: VRP search).

The *Superfund information* will be listed by clicking on the <u>Search EPA's CERCLIS database</u> tab and clicking on the **Search Superfund Site Information** button (blue box). On this form, enter either 1) the zip code for the project site, or, 2) the name of the city or county and select Virginia in the State drop down box. Click "Search" at the bottom of the form. A facilities list will be appear.

The *hazardous waste* information can be accessed by clicking on the <u>Hazardous Waste Facilities</u> link. Go to the Geography Search section and fill in the 1) zip code of the project, or 2) the name of the city or county and VA in the state block, and click on "Search". The hazardous waste facilities in the locality will be listed.

The Voluntary Remediation Program (VRP), Solid Waste Facilities, and Petroleum Release Sites GPS databases can be accessed from the <u>www.deq.virginia.gov</u> website by clicking on VEGIS link under the Resources & Tools category. Then click on the <u>"What's in my backyard</u>" in the Mapping Applications block to the left. On the web map page, click on the <u>"Pick a Quick Search Here"</u> drop down arrow, and select "Address Search". In the adjacent block enter the zip code or address for the project site. Click on "Search". On the map you will see a green "balloon" indicating the site.

On the map area click on the "Tools" drop down arrow, and the select "Identify". A normal search looks like this: In the "Radius" block, type in [.5], and in the adjacent block select [miles] from the drop down options. Click on the "Layer" drop down arrow, select "VRP Sites", and then click on the green balloon. All VRP sites within the indicated range will appear in the Map/Results block to the left. Clicking on the block by the identified site will result in a second green balloon on the map. With multiple sites identified by the search, you can select/unselect each site to visualize its location, or change the radius of the search as needed.

At this time you can also search for "Solid Waste" sites and "Petroleum Releases" information for the project area by selecting these topics from the "Layer" options and then clicking on the green balloon on the map after each selection.

These database searches will include most waste-related site information for each locality based upon the radius of the address selected (such as .5 miles, .25 miles, or .1 mile). In many cases, especially when the project is located in an urban area, the database output for that locality will be extensive. This information is important to identify possible environmental concerns that may impact a new project.

# Fisher, John (DEQ)

| From:    | Ewing, Amy (DGIF)   |
|----------|---|
| Sent:    | Wednesday, May 01, 2013 11:38 AM                            |
| То:      | Fisher, John (DEQ)  |
| Cc:      | nhreview (DCR)  |
| Subject: | ESSLog# 33737_13-060F_Langley-Eustis Alternate Water Supply |

We have reviewed the subject project that proposes to construct alternate water supply at Langley-Eustis in Newport News, VA.

According to our records, bald eagle nests and concentration zones have been documented from the project area. Based on the scope and location of the proposed work, we do not anticipate it to result in adverse impacts upon this species. We recommend coordination with the USFWS regarding possible impacts upon bald eagles.

Warwick River, Skiffes Creek and the James River have been designated Anadromous Fish Use Areas. Based on the scope and location of the proposed work, we do not anticipate it to result in adverse impacts upon these resources.

This project is located within 2 miles of a documented occurrence of a state or federal threatened or endangered plant or insect species and/or other Natural Heritage coordination species. Therefore, we recommend coordination with VDCR-DNH regarding the protection of these resources.

To minimize the adverse impacts of linear utility project development on wildlife resources, we offer the following general recommendations: avoid and minimize impacts to undisturbed forest, wetlands, and streams to the fullest extent practicable; maintain naturally vegetated buffers of at least 100 feet in width around wetlands and on both sides of perennial and intermittent streams, where practicable; conduct significant tree removal and ground clearing activities outside of the primary songbird nesting season of March 15 through August 15; and, implement and maintain appropriate erosion and sediment controls throughout project construction and site restoration. We understand that adherence to these general recommendations may be infeasible in some situations. We are happy to work with the applicant to develop project-specific measures as necessary to minimize project impacts upon the Commonwealth's wildlife resources.

Assuming adherence to erosion and sediment controls, we find this project consistent with the Fisheries Management Section of the CZMA.

# Thanks, Amy Ewing

Environmental Services Biologist | VA Dept. of Game and Inland Fisheries | 4010 West Broad St. Richmond, VA 23230 | 804-367-2211 | www.dgif.virginia.gov

Carl E. Garrison III State Forester



APR 17 2013 DEQ-Office of Environmental Impact Review

# COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORESTRY 900 Natural Resources Drive, Suite 800 Charlottesville VA 22903 434.977.6555 ~ Fax: 434.296.2369 www.dof.virginia.gov

April 17, 2013

 TO:
 John Fisher, VDEQ

 FROM:
 Greg Evans, VDOF

 SUBJECT:
 DEQ #13-060F – Joint Base Langley-Eustis Alternate Water Supply System and Booster Station

## Virginia Department of Forestry Response to Environmental Impact Review Request

Thank you for the opportunity to comment on the Joint Base Langley-Eustis Alternate Water Supply System and Booster Station proposal on behalf of the Virginia Department of Forestry (DOF). The Department has the following comments:

- The forestland on the proposed site consists of mature hardwood forest but the loss should be minimal. According to the EIR, approximately 0.81 acres of forested land would be disturbed. While the proposed water line will traverse and bisect contiguous forest, the stated cleared width for the pipeline corridor is only 20 feet and should not create an adverse impact on the health of the forest ecosystem. Further, the water line will be buried when completed and the land above it managed in a grass state.
- 2. Best management practices are identified that when implemented will ensure that no trees outside the intended area of disturbance will be removed.
- Given the limited acreage of forest that would be disturbed. DOF does not request off-site mitigation.
- 4. DOF commends USAF policy stipulating that forest resources must be managed for long-term sustainability, and that management must be compatible with protecting federally listed threatened and endangered species, maintaining biodiversity, protecting the Chesapeake Bay watershed, and providing wildlife habitat enhancement and outdoor recreational activities. In addition, the forest management program must fully comply with all applicable federal laws, policies, and regulations pertaining to forest management.

Greg Evans Voluntary Mitigation Program Manager Forestland Conservation Division Virginia Department of Forestry 900 Natural Resources Drive, Suite 800 Charlottesville, VA 22903 434-220-9035

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## Fisher, John (DEQ)

| From:    | Albrecht, Edward (VDH)                                    |
|----------|---|
| Sent:    | Monday, April 22, 2013 10:28 AM                           |
| To:      | Fisher, John (DEQ)  |
| Cc:      | Matthews, Barry (VDH)                                     |
| Subject: | DEQ Project #: 13-060F Alternate Water Supply System JBLE |
|          |   |

| DEQ Project #: | 13-060F   |
|----------------|---|
| Name:          | Alternate Water Supply System and Booster Station |
| Sponsor:       | DOD/Department of the Army                        |
| Location:      | Newport News                                      |

VDH – Office of Drinking Water has reviewed the above captioned project. Below are our comments as they relate to proximity to public drinking water sources (groundwater wells, springs and surface water intakes). Potential impacts to public water distribution systems or sanitary sewage collection systems must be verified by the local utility.

There are 2 groundwater wells located within a 1 mile radius: The City of Newport News has two groundwater wells, Well 1B is 1,723 feet away and Well 1A is located 1,832 feet away from the project site.

There are 2 surface water intakes in Zone 1 (within a 5 mile radius): The City of Newport News Skiffes Creek surface water intake is 1.5 located miles upgradient of the project site; The City of Newport News Lee Hall surface water intake is located 1.23 miles away from the project site.

Submit an application for a construction permit with the local Field Office.

Edward Albrecht Virginia Department of Health, Office of Drinking Water 109 Governor Street, Sixth Floor Richmond, VA 23219 (P) 804-864-7495 Edward.Albrecht@vdh.virginia.gov



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APR 2 4 2013 DEQ-Office of Environmental Impact Review

# COMMONWEALTH of VIRGINIA

DEPARTMENT OF TRANSPORTATION 1700 NORTH MAIN STREET SUFFOLK, VIRGINIA 23434

Gregory A. Whirley Commissioner

April 24, 2013

MEMORANDUM

| TO:      | John Fisher, Department of Environmental Quality                            |
|----------|---|
| FROM:    | Eric L. Stringfield, Transportation Planning and Land Use Director          |
| SUBJECT: | Consistency Determination/Certification                                     |
| PROJECT: | DOD/Department of Army: Alternative Water Supply System and Booster Station |

LOCATION: City of Newport News

CC: Elizabeth Jordan, Chip Ray & James Cromwell

This report was reviewed by the Hampton Roads Planning Office for impacts to existing and proposed transportation facilities in relationship to the proposed construction and operation of an alternative water supply system and booster station. This construction is for the Fort Eustis portion of the Joint Base Langley-Eustis, Fort Eustis (JBLE-FE).

There are several projects under design in VDOT's Six Year Plan and the Hampton Roads 2034 Long Range Plan that improves traffic flow in this area. They include:

- UPC 98812 Route 60/143 Connector Study PE only James City County
- UPC 100200 Skiffes Creek Connector Study James City County
- UPC 13496 & 14598 Route 60 Relocation James City County & City of Newport News
- UPC 87201 Skiffes Creek Bridge/Rte 60 Relocation James City County
- UPC 57313 Rte 64 Widening from 4-8 lanes City of Newport News
- UPC 98570 Fort Eustis Boulevard guardrail over Lee Hall Reservoir City of Newport News
- UPC 91687 Replace Rte 105 (Fort Eustis Blvd.) Bridge over CSX Railroad- City of Newport News
- UPC 14952 Warwick Boulevard Install cantilever flashing lights and gates City of Newport News
- UPC100856 Oakland Industrial Park sidewalk City of Newport News

This report does not include a traffic analysis to validate traffic impacts. However, the anticipated traffic impact from the proposed redevelopment should be minimal and will not adversely impact traffic operations in this area. Therefore, it is the conclusion that this project will not have a negative impact on the transportation within the region.

If any additional information is required, notify Darryll D Lewis, P.E. at 757-925-1622 or darryll.lewis@vdot.virginia.gov.

dl

## Fisher, John (DEQ)

From: Sent: To: Subject: Kirchen, Roger (DHR) Monday, April 22, 2013 2:08 PM Fisher, John (DEQ) Alternative Water Supply System and Booster Station (DEQ #13-060F; DHR File No. 2013-0064)

Pursuant to Section 106 of the National Historic Preservation Act, DHR has been in direct consultation with the Army and Air Force regarding this project (see EA - Appendix A) and the parties have reached consensus that the Alternative Water Supply System and Booster Station project will result in no historic properties affected. DHR has no further comment at this time.

# Roger

Roger W. Kirchen, Manager Office of Review and Compliance Division of Resource Services and Review Department of Historic Resources 2801 Kensington Avenue Richmond, VA 23221 phone: 804-482-6091 (NEW!) fax: 804-367-2391 roger.kirchen@dhr.virginia.gov



RECEIVED APR 3 0 2013

DWIGHT L. FARMER, EXECUTIVE DIRECTOR/BECRETARY

Mr. John E. Fisher CHESAPEAKE Virginia Department of Environmental Quality Office of Environmental Impact Review 629 East Main Street, Sixth Floor FRANKLIN Richmond, VA 23219

(ENV: GEN)

**DEQ-Office of Environmental** Impact Review

GLOUCESTER

MEMBER JURISDICTIONS

HAMPTON

ISLE OF WIGHT

Dear Mr. Fisher:

Re:

April 29, 2013

Pursuant to your request, the staff of the Hampton Roads Planning District Commission has reviewed the Federal Consistency Determination and JAMES CITY Environmental Assessment for the following project, Alternate Water Supply System and Booster Station, at Joint Base Langley-Eustis, Fort Eustis, in the City NEWPORT NEWS of Newport News. We have consulted with City staff regarding this project.

DEQ #13-060F, Alternate Water Supply System and Booster Station

NORFOLK Based on this review, the proposal appears to be consistent with local and regional plans and policies.

Fame

We appreciate the opportunity to review this project. If you have any questions, please do not hesitate to call.

Sincerely, SOUTHAMPTON

POQUOSON

PORTSMOUTH

SUFFOLK

SURRY

**MRGINIA BEACH** 

WILLIAMSBURG

BJM/jcc

Copy: Michael King, NN

Dwight L. Farmer

**Executive Director/Secretary** 

YORK

# Coastal Zone Management Act (Coastal Zone Management Act) Consistency Determination

- 1. This document provides the Commonwealth of Virginia with the U.S. Army Fort Eustis portion of Joint Base Langley-Eustis (JBLE-FE), Consistency Determination under the Coastal Zone Management Act section 307©(1) [or (2)] and 15 CFR Part 930, sub-part C, for the proposed project of construction and operation of an alternate water supply system and booster station for the purposes of improving reliability of the water system in the instance of a break in the post's water main or maintenance on the Newport News supply line. This consistency determination assesses the construction aspects to determine consistency with the Virginia Coastal Resources Management Program. The Proposed Action consists of the following:
  - a. Old Dominion Utilities Service (ODUS) proposes to install a new water supply point (hereinafter called the "Proposed Action") for the Fort Eustis portion of JBLE. Construction of this project would include activities such as excavation, site grading, trenching, and pipe installation.

The Proposed Action includes the following design features:

- Meter vault
- Backflow preventer
- Water booster station
- Approximately 2,450 linear feet of buried 12" pipe
- Crush and run maintenance access road; approximately 1,700 linear feet long and 12 feet wide

JBLE-FE has experienced water outages as a result of past water main breaks and during required maintenance on the connecting Newport News water main. Construction of the alternate water supply system is needed to meet the water demand for JBLE-FE. A secondary connection would provide redundant water service to account for potential future water outages, which would improve system reliability.

| Applicable Enforceable Policies   | Federally Proposed Action's Effect  |
|---|---|
| Fisheries Management - The program stresses the conservation  |   |
| and enhancement of finfish and shellfish resources and the  |   |
| promotion of commercial and recreational fisheries to maximize  |   |
| food production and recreational opportunities. This program is<br>administered by the Marine Resources Commission (MRC)  |   |
| (Virginia Code §28.2-200 through §28.2-713) and the   |   |
| Department of Game and Inland Fisheries (DGIF) (Virginia  |   |
| Code §29.1-100 through §29.1-570).  | NO EFFECT:  |
| The State Tributyltin (TBT) Regulatory Program has been added<br>to the Fisheries Management program. The General Assembly<br>amended the Virginia Pesticide Use and Application Act as it<br>related to the possession, sale, or use of marine antifoulant<br>paints containing TBT. The use of TBT in boat paint constitutes<br>a serious threat to important marine animal species. The TBT<br>program monitors boating activities and boat painting activities<br>to ensure compliance with TBT regulations promulgated<br>pursuant to the amendment. The MRC, DGIF, and Virginia | described in the Water Resource Section of the EA document. No watercraft operations or painting of watercraft is involved. |

| Department of Agriculture and Consumer Services share<br>enforcement responsibilities (Virginia Code §3.1-249.59<br>through §3.1-249.62).   |  |
|---|--|
| <i>Subaqueous Lands Management</i> - The management program<br>for subaqueous lands establishes conditions for granting or<br>denying permits to use state-owned bottomlands based on<br>considerations of potential effects on marine and fisheries<br>resources, wetlands, adjacent or nearby properties, anticipated<br>public and private benefits, and water quality standards<br>established by the DEQ Water Division. The program is<br>administered by the MRC (Virginia Code §28.2-1200 through<br>§28.2-1213).   | <b>NO EFFECT:</b><br>No subaqueous land use is proposed under this action.   |
| <ul> <li>Wetlands Management - The purpose of the wetlands<br/>management program is to preserve tidal wetlands, prevent their<br/>despoliation, and accommodate economic development in a<br/>manner consistent with wetlands preservation.</li> <li>The tidal wetlands program is administered by the MRC<br/>(Virginia Code §28.2-1301 through §28.2-1320).</li> <li>The Virginia Water Protection Permit program administered by<br/>the DEQ includes protection of wetlands both tidal and non-<br/>tidal. This program is authorized by Virginia Code § 62.1-<br/>44.15.5 and the Water Quality Certification requirements of<br/>§401 of the Clean Water Act of 1972.</li> </ul> | <b>MINOR EFFECT:</b><br>The Proposed Action will impact approximately<br>0.003 acres of two small isolated Palustrine<br>Emergent wetlands on private property and may<br>require a Joint Permit Application be submitted<br>to the regulatory agencies. No wetlands will be<br>impacted on JBLE-FE. See figure 4 in attached<br>EA document.  |
| <i>Dunes Management</i> - Dune protection is carried out pursuant to<br>the Coastal Primary Sand Dune Protection Act and is intended to<br>prevent destruction or alteration of primary dunes. This program<br>is administered by the Marine Resources Commission (Virginia<br>Code §28.2-1400 through §28.2-1420).   | <b>NO EFFECT:</b><br>No primary dunes exist in the project site which<br>is primarily an upland area.  |
| <i>Non-point Source Pollution Control</i> - Virginia's Erosion and<br>Sediment Control Law requires soil-disturbing projects to be<br>designed to reduce soil erosion and to decrease inputs of<br>chemical nutrients and sediments to the Chesapeake Bay, its<br>tributaries, and other rivers and waters of the Commonwealth.<br>This program is administered by the Department of<br>Conservation and Recreation (DCR) (Virginia Code §10.1-560<br><i>et seq.</i> ).   | MINOR EFFECT:<br>Construction impacts associated with the<br>Proposed Action could have a short-term effect<br>on water resources by increasing storm water<br>runoff from the site and carrying sediment and<br>contamination loads into nearby waters during<br>heavy rain. Construction activities would<br>comply with the <i>Virginia Erosion</i> and Sediment<br>Control Regulations and the Virginia Stormwater<br>Management Regulations to avoid or minimize<br>erosion. See Water Resources Section of EA<br>Document. |
| <b>Point Source Pollution Control</b> - The point source program is<br>administered by the State Water Control Board pursuant to<br>Virginia Code §62.1-44.15. Point source pollution control is<br>accomplished through the implementation of the National<br>Pollutant Discharge Elimination System (NPDES) permit  | <b>NO EFFECT:</b><br>Construction activities such as fueling equipment<br>or fluids leaked from equipment have the   |

| program established pursuant to §402 of the federal Clean Water<br>Act and administered in Virginia as the VPDES permit program.<br>The Water Quality Certification requirements of §401 of the<br>Clean Water Act of 1972 is administered under the Virginia<br>Water Protection Permit program.   | potential to occur and could result in<br>groundwater contamination. BMP's would be<br>used to prevent spills or leaks for vehicles,<br>equipment, and containers. Additionally, Spills<br>or discharges of fuel, hydraulics, or other<br>hazardous materials would be reported<br>immediately by calling Fire and Emergency<br>Services and responded to in accordance with the<br>Fort Eustis Integrated Contingency Plan and the<br>Fort Eustis Spill Prevention, Control and<br>Countermeasures Plan. See Water Resources<br>Section of EA Document.  |
|---|---|
| <i>Shoreline Sanitation</i> - The purpose of this program is to regulate the installation of septic tanks, set standards concerning soil types suitable for septic tanks, and specify minimum distances that tanks must be placed away from streams, rivers, and other waters of the Commonwealth. This program is administered by the Department of Health (Virginia Code §32.1-164 through §32.1-165).  | <b>NO EFFECT:</b><br>No septic tanks will be constructed as part of the<br>Proposed Action.   |
| <i>Air Pollution Control</i> - The program implements the federal<br>Clean Air Act to provide a legally enforceable State<br>Implementation Plan for the attainment and maintenance of the<br>National Ambient Air Quality Standards. This program is<br>administered by the State Air Pollution Control Board (Virginia<br>Code §10.1-1300 through 10.1-1320).<br><i>Coastal Lands Management</i> is a state-local cooperative<br>program administered by the DCR's Division of Stormwater<br>Management – Local Implementation (previously the Division<br>of Chesapeake Bay Local Assistance) and 88 localities in<br>Tidewater, Virginia established pursuant to the Chesapeake Bay<br>Preservation Act; Virginia Code §§ 10.1-2100 through 10.1-<br>2114 and Chesapeake Bay Preservation Area Designation and<br>Management Regulations; Virginia Administrative code 9<br>VAC10-20-10 <i>et seq</i> . | NO EFFECT:<br>A Record of Non-Applicability (RONA) to the<br>General Conformity Rule has been drafted and<br>will be included with the EA document.<br>MINOR EFFECT:<br>The Proposed Action would add approximately<br>.52 acres of impervious surfaces within the limits<br>of construction. Grassed swales would be<br>utilized to address the additional impervious<br>surface. Additionally, appropriate stormwater<br>management and erosion and sediment control<br>plans utilizing BMPs will be followed in<br>compliance with State and Federal requirements.<br>See Water Resources Section of EA documents. |

Appendix F – U.S. Fish & Wildlife Project Review Package





# United States Department of the Interior

erior

FISH AND WILDLIFE SERVICE Ecological Services 6669 Short Lane Gloucester, Virginia 23061

Date: March 12, 2013

# **Online Project Review Certification Letter**

Project Name: ODUS Alternate Waterline

Dear Applicant:

Thank you for using the U.S. Fish and Wildlife Service (Service) Virginia Field Office online project review process. By printing this letter in conjunction with your project review package, you are certifying that you have completed the online project review process for the referenced project in accordance with all instructions provided, using the best available information to reach your conclusions. This letter, and the enclosed project review package, completes the review of your project in accordance with the Endangered Species Act of 1973 (16 U.S.C. 1531-1544, 87 Stat. 884), as amended (ESA), and the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668c, 54 Stat. 250), as amended (Eagle Act). This letter also provides information for your project review under the National Environmental Policy Act of 1969 (P.L. 91-190, 42 U.S.C. 4321-4347, 83 Stat. 852), as amended. A copy of this letter and the project review package must be submitted to this office for this certification to be valid. This letter and the project review package must package will be maintained in our records.

The species conclusions table in the enclosed project review package summarizes your ESA and Eagle Act conclusions. These conclusions resulted in "no effect" and/or "not likely to adversely affect" determinations for listed species and critical habitat and/or "no Eagle Act permit required" determinations for eagles regarding potential effects of your proposed project. We certify that the use of the online project review process in strict accordance with the instructions provided as documented in the enclosed project review package results in reaching the appropriate determinations. Therefore, we concur with the "no effect" and "no Eagle Act permit required" determinations for listed species and critical habitat and "no Eagle Act permit required" determinations for listed species and critical habitat and "no Eagle Act permit required" determinations for listed species and critical habitat and "no Eagle Act permit required" determinations for listed species and critical habitat and "no Eagle Act permit required" determinations for listed species and critical habitat and "no Eagle Act permit required" determinations for listed species and critical habitat and "no Eagle Act permit required" determinations for listed species and critical habitat and "no Eagle Act permit required" determinations for listed species and critical habitat and "no Eagle Act permit required" determinations for listed species and critical habitat and "no Eagle Act permit required" determinations for listed species and critical habitat and "no Eagle Act permit required" determinations for eagles. Additional coordination with this office is not needed.

Candidate species are not legally protected pursuant to the ESA. However, the Service encourages consideration of these species by avoiding adverse impacts to them. Please contact this office for additional coordination if your project action area contains candidate species.

Should project plans change or if additional information on the distribution of listed species, critical habitat, or bald eagles becomes available, this determination may be reconsidered. This certification letter is valid for one year.

Applicant

Page 2

Information about the online project review process including instructions and use, species information, and other information regarding project reviews within Virginia is available at our website http://www.fws.gov/northeast/virginiafield/endspecies/project\_reviews.html. If you have any questions, please contact Kimberly Smith of this office at (804) 693-6694, extension 124.

Sincerely,

/s/ Cynthia A. Schulz

Cindy Schulz Supervisor Virginia Field Office

Enclosures - project review package

# Species Conclusions Table

Project Name: JBLE

Date: 3/12/2013

| Notes / Documentation                   | IPAC species information (Habitat Requirements)<br>The project area is not in the proximity where it<br>would be flooded twice daily | There were no nests within 660 feet of the project. (the closest nest is approximately 6,800 feet from the project area) |                             |  |  |  |  |
|---|--|--|-----------------------------|--|--|--|--|
| ESA Section 7 / Eagle Act Determination | No effect  | No Eagle Act permit required   | No effect                   |  |  |  |  |
| Conclusion                              | no suitable habitat present  | Unlikely to disturb Bald Eagle<br>Nest<br>Does not intersect with eagle<br>concentration area                            | no critical habitat present |  |  |  |  |
| Species / Resource Name                 | Sensitive joint-vetch<br>(Aeschynomene virginica)  | Bald Eagle   | Critical Habitat Buffer     |  |  |  |  |



# **Natural Resources of Concern**

# 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:** JBLE



# **Natural Resources of Concern**

**Project Location Map:** 



**Project Counties:** 

Newport News, VA

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

MULTIPOLYGON (((-76.583857 37.1756404, -76.5829729 37.1755788, -76.5840029 37.1711727, -76.5830588 37.1707282, -76.5821567 37.1694291, -76.5821138 37.1685383, -76.5832725 37.1687434, -76.5832296 37.1691897, -76.58353 37.1697369, -76.5844312 37.1701814, -76.5852037 37.1704875, -76.583857 37.1756404)))

# **Project Type:**

Water Supply / Delivery



# **Natural Resources of Concern**

# Endangered Species Act Species List (USFWS Endangered Species Program).

There are a total of 1 threatened, endangered, or candidate species, and/or designated critical habitat on your species list. Species on this list are the species that may be affected by 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. Please contact the designated FWS office if you have questions.

# Species that may be affected by your project:

| Flowering Plants                                  | Status     | Species Profile | Contact                                      |  |
|---|------------|-----------------|--|--|
| Sensitive joint-vetch<br>(Aeschynomene virginica) | Threatened |                 | Virginia Ecological Services<br>Field Office |  |

# 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).

Most species of birds, including eagles and other raptors, are protected under the Migratory Bird Treaty Act (16 U.S.C. 703). Bald eagles and golden eagles receive additional protection under the Bald and Golden Eagle Protection Act (16 U.S.C. 668). 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.).

# 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



# **Natural Resources of Concern**

requirements to their project with the Regulatory Program of the appropriate U.S. Army Corps of Engineers District.

# The following wetlands intersect your project area:

| Wetland Types                     | NWI Classification Code | Approximate Acres |
|-----------------------------------|-------------------------|-------------------|
| Freshwater Forested/Shrub Wetland | PFOIR                   | 2.636621          |
| Freshwater Forested/Shrub Wetland | PFOIEh                  | 0.674905          |

# **Bald Eagle Nest**



Map and Data copyright of The Center for Conservation Biology @ ccbbirds.org

# **USFWS Bald Eagle Concentration Areas - Viginia**



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), and the GIS User Community

# **Sensitive Joint-Vetch**

Aeschynomene virginica

#### Description

The sensitive jointvetch s an annual legume native to the eastern United States. Populations currently exist in Maryland, New Jersey, North Carolina, and Virginia. The historical range for the species extended to Delaware and Pennsylvania. In Virginia, populations are found along the Potomac, Mattaponi, Pamunkey, Rappahannock, Chickahominy, and James Rivers and their tributaries. This plant usually attains a height of three to six feet in a single growing season, but may grow as tall as eight feet. The flowers are yellow, streaked with red and the fruit is a pod, turning dark brown when ripe.

#### **Life History**

The joint-vetch occurs in fresh to slightly brackish tidal river systems. within the intertidal zone where populations are flooded twice daily. It typically occurs at the outer fringe of marshes or shores; its presence in marsh interiors may be a result of nutrient deficiencies, ice scouring, or muskrat herbivory. The sensitive jointvetch is found in localities where plant diversity is high and annual species are prevalent. Bare to sparsely vegetated substrates appear to be a habitat feature of critical importance for establishment and growth of this species. Plants flower from July through September and into October in some years. Fruits are produced from July through late October, concurrent with flowering.

#### Conservation

The sensitive jointvetch was federally listed as a threatened species on June 19, 1992. Threats to the species include sedimentation, competition from nonnative plant species, dams, dredging, filling, recreational activities,

shoreline stabilization, shoreline structures, road and bridge construction, commercial and residential development, water withdrawal projects, water quality degradation, agricultural practices, introduced pest species, mining, timber harvest, over-visitation, declines in muskrat populations, rise in sea level (this may also be a result of natural cycles), and collection. Natural threats are often identified with disturbances, such as wave and ice action associated with severe storm events, competition, herbivory, channel migration, sea level rise and natural sedimentation processes. Adequate habitat conservation for this species will only be achieved through on-site protection of marshes supporting plant populations when coupled with protection of the natural ecological processes responsible for creating and maintaining habitat for the sensitive joint-vetch.

#### What you can do to help

Avoid the use of herbicides in or near waterways. If you are planning construction or stabilization activities along the shoreline in one of the counties indicated on the attached map, please contact the U.S. Fish and Wildlife Service.

#### References

Davison, S.E. and L.P. Bruderle. 1984. Element stewardship abstract for *Aeschynomene virginica* sensitive joint vetch. The Nature Conservancy. Arlington, Virginia.

Hershner, C. and J.E. Perry. 1987. Population status of potentially threatened vascular plants from coastal plain tidal rivers in Virginia. College of William and Mary, Virginia Institute of Marine Science, Gloucester Point, Virginia.



Rouse, G.D. 1994. Sensitive jointvetch life history and habitat study, 1993 Field Season, Mattaponi and Rappahannock River systems, Virginia. Schnabel Environmental Services. Richmond, Virginia.

U.S. Fish and Wildlife Service. 1995. Sensitive joint-vetch (Aeschynomene virginica) recovery plan. Hadley, Massachusetts.

U.S. Fish and Wildlife Service Virginia Field Office 6669 Short Lane Gloucester, Virginia 23061 804/693 6694

Federal Relay Service for the deaf and hard-of-hearing 1 800/877 8339

U.S. Fish & Wildlife Service 1 800/344 WILD http://www.fws.gov

#### October 2010



Appendix G – Public Hearing Affidavit





# APR - 4 2013

WHITMAN, REQUARDT AND ASSOCIATES, LLP

Legal Notice

PUBLIC NOTICE Notice of Availability Draft Environmental Assessment (EA) and Draft Finding of No Significant Impact

(FNSI)

# 8024365

# **COMMONWEALTH OF VIRGINIA CITY OF NEWPORT NEWS**

This day, personally appeared before me, George Hunt, and made oath as follows:

1. He is employed in the Office Services Department of the Daily Press, LLC; a newspaper publishing company in the City of Newport News, Virginia.

The attached advertisement was published for 2 insertion(s) in the Daily Press,

March 19, 2013

and ending on

March 20, 2013

March 22, 2013 Date

and Draft Environmental Assessment (Ley end Draft Environmental Assessment (Ley end Draft Finding of No Significant Impact (KNSI) The U.S. Army has prepared a draft EA that considers the proposed construction and operation of an alternate water supply system and booster station at Joint Base Langley-Liustis, Fort Eustis, This draft EA has been prepared to evaluate the Proposed Action, the alternative sites for the Proposed Action Alternative, implementation of the Proposed Action is not expected to result in significant environmental impacts, indicating that a FNSI would be appropriate. An Environmental Policy Action in accordance with the National Environmental Policy Act. Copies of the draft EA and draft FNSI are available for review and comment online at http://www.peninsulawarrior.com or at the following Library BLDG 1313, Fort Eustis, VA 23606, and Christopher Newyort University Library, 1 University Elace Newyort News, VA 23606, comments on the draft EA and draft FNSI should be submitted to Mr. Timothy Christensen, Chief, Conservation Branch, Environmental Element, preferably via email at Timothy P. Christensen.civ @ mail.mill or Via mail to Whitman Requardt and Associates, LLP Attr: Nicolas Nies, 9030 Stony Polint Parkway, Richmond, Virgina 23235. Requests for copies and/or comments may also be submitted by e-mail to Nicholas Nies at nies @ wrail to comments may also be submitted by e-mail to Nicholas Nies at nies @ wrails.com

George Hunt

Subscribed and sworn before me

This 22<sup>nd</sup> day of March, 2013.

My commission expires: December 31, 2016.

Wette R. Causey

NOTARY PUBLIC

Registration Number: 7513218



