

Appendix X

Wastewater and Storm Water Management

1. Purpose. This appendix establishes policy, responsibilities and procedures for the control and abatement of water pollution.

2. Key Applicable Regulations.

a. The Federal Water Pollution Control Act, commonly known as the Clean Water Act (CWA), governs the control of water pollution in the nation. The CWA objective is to restore and maintain the chemical, physical and biological integrity of the nation's waters.

b. The National Pollutant Discharge Elimination System (NPDES) permit program requires that wastewater/storm water discharges into water bodies from point sources such as storm water runoff from industrial activities be regulated by discharge permit.

c. Virginia Erosion and Sediment Control Law, Regulation and Certification Regulation (VESCL&R) requires that all construction projects involving land disturbing activities implement Best Management Practices (BMP) to reduce and/or eliminate

d. 9 VAC 30-50 Code of Virginia governs the discharge of wastewater and storm water.

e. 9 VAC 25-180-10 Code of Virginia governs General Construction Storm Water Permits.

f. Army Regulation (AR) 200-1, *Environmental Protection and Enhancement*, mandates compliance with the CWA and applicable state and local requirements.

3. Policy.

a. Assist the installation mission by ensuring that our training environment will maintain its high quality and continue to support training operations; ensure that storm water and wastewater meet or exceed water quality standards; protect beneficial uses of all surface water bodies; and ensure that Fort Eustis achieves and maintains compliance with all applicable environmental laws and regulations. This policy applies to:

(1) All bodies of water, natural or manmade, including reservoirs, pools, ponds, lakes, wells, wetlands, streams, rivers, ditches and underground aquifers.

(2) All wastewater collection systems, treatment facilities and effluents.

(3) Monitor, evaluate and minimize any adverse effects of mission activities on water resources and water quality.

4. Responsibilities. Responsibilities for compliance with the above stated policy items, and with the goals established by the CWA and other federal, state and local laws and regulations are stated below.

a. The Directorate of Public Works, Facility Support Division will:

(1) Manage the infrastructure in compliance with all federal, state and local regulations.

(2) Operate and maintain all pretreatment facilities.

(3) Submit the required discharge monitoring report to ENRD.

b. The Environmental and Natural Resources Division (ENRD) will:

- (1) Coordinate wastewater and storm water pollution abatement, and surface water quality.
- (2) Conduct water monitoring at selected representative locations to evaluate impacts of training and other activities on water quality installation-wide.
- (3) Review master plans, construction plans and activities, and other activities for controls to surface water runoff that minimize erosion and the discharge of pollutants.
- (4) Conduct studies, analyze data, identify and eliminate/minimize all sources of pollutants.
- (5) Develop and coordinate policies and procedures for water resources management that reflect Army guidance and pertinent provisions of water pollution control laws.
- (6) Apply for and obtain applicable permits required by federal, state and local regulations, including NPDES discharge permits and Hampton Roads Sanitation District permits.
- (7) Coordinate with federal, state, regional, and local water quality control agencies and authorities.
- (8) Provide technical guidance to installation and sub-installation.
- (9) Develop long-range programs and policies for wastewater treatment to achieve water quality objectives and goals of the CWA and other pertinent laws and regulations.
- (10) With Facilities Support Division and Business Management Division, manage the identification, budgeting, reporting, engineering, design and construction of projects intended to control and monitor wastewater discharges in accordance with applicable federal, state, regional and local water quality standards.

c. The Facilities Support Division will operate wastewater treatment facilities in accordance with all applicable laws and regulations, and will:

- (1) With ENRD, develop long-range programs and policies for wastewater treatment to achieve water quality objectives and goals of the CWA and other pertinent laws and regulations.
- (2) Submit discharge monitoring reports (DMR) and other required reports in accordance with permit schedules.
- (3) Construct, operate, and maintain wastewater treatment facilities, storm water treatment facilities, and their associated collection systems at Fort Eustis in accordance with applicable laws, regulations and directives.

d. The Engineering Services Division will:

- (1) Maintain inventories and drawings of storm water and wastewater collection systems.
- (2) Coordinate with ENRD for proposed projects regarding wastewater and storm water to allow notification of federal and state regulatory agencies comment.
- (3) Contact ENRD (878-4123) for guidance when any proposed action or project has the potential (or if there is a question as to the potential) to affect a water resource.

5. Water Quality Regulations, Standards And Procedures. The actions described below are major aspects of water resource management on Fort Eustis. Compliance with applicable requirements is mandatory for all organizations and personnel on the installation. Additional details are available from ENRD.

a. Water Pollution Abatement.

(1) Storm water pollution prevention:

(a) ENRD will conduct annual inspections of unit/agency facilities and activities in the cantonment area for storm water pollution prevention practices. A report of the inspection will be provided to the unit/agency for information and correction of any deficiencies noted.

(b) Storm water pollution prevention training will be provided for all AECs.

(c) Vehicle maintenance and washing activities are not permitted in housing areas, barracks areas, or parking lots.

(d) All exterior vehicle washing will be conducted at an approved vehicle washracks on post.

(2) Control of industrial wastewater discharges:

(a) All new discharges from industrial processes into the sanitary wastewater system require approval by ENRD.

(b) Operation of grease racks and oil/water separators, and other motor pool activities that could potentially cause water pollution will take all practical measures to eliminate all unpermitted discharges.

(c) Water and soap from dining facility outdoor washing of garbage cans, field kitchen equipment or other items will not be allowed to run into streets or storm drains. Only that area designated for washing which empties into the sanitary wastewater system will be used. Grease and garbage will not be dumped into storm drains.

(d) No discharges will be allowed into the sanitary or storm water systems without prior approval from ENRD.

(e) Hazardous materials will be stored and handled in a manner that will minimize the potential for spills which could release material into storm drains or the sanitary wastewater system. The storage and handling of hazardous materials is prescribed in Appendix G, *Hazardous Material Management*, this regulation.

(f) Control of discharges to the sanitary wastewater system. All connections that discharge into the sanitary wastewater system require approval by ENRD.

(3) Sedimentation and Erosion Control:

(a) ENRD will provide program administration.

(b) All projects involving land disturbing activities greater than 2,500 square feet will develop and submit a Sedimentation and Erosion Control Plan. The plan must be developed in accordance with the Virginia Erosion and Sedimentation Control Handbook, 3rd Edition 1992 and 2.d. of this appendix.

(c) Two copies of the plan will be submitted to ENRD for review and approval.

(d) The project manager for the project will submit the plan 45 days prior to commencement of construction.

(e) Upon review, ENRD will provide a letter of approval or a response outlining deficiencies and what is required for an approved plan.

(f) Land disturbing activities will not be initiated prior to plan approval. Failure to comply may result in a Stop Work Order and/or potential fines.

(g) Exemption to this requirement will only be granted by the plan approving authority.

(h) The project manager will maintain a copy of the approved plan on site.

(i) Once the plan has been approved and prior to commencement of construction, control measures such as silt fence and tree protection may be installed.

(j) Once the control measures have been installed, they must be maintained in accordance with 2.c. of this appendix.

(k) Responsibilities for maintenance and inspection of control structures must be addressed in the plan. Inspections are required on all projects. Inspection will be performed at a minimum of bi-weekly, within 48 hours of a runoff producing storm event and at project completion.

(l) Inspection records will be maintained at the site.

(m) ENRD will perform periodic inspection of all projects.

(4) Storm Water General Construction Permits

(a) Construction activities greater than five acres (Note: In March 2003, the size will be changed to one acre in size) are required to have a General Construction Permit prior to commencement of land disturbing activity.

(b) The organization responsible for physical construction is responsible for obtaining the permit from the Virginia Department of Environmental Quality. Additional information can be found in the Permitting Section of this regulation.

(c) A copy of the permit and Termination Notice issued at completion of project will be forwarded to DPW, ENRD (ATTN: Storm Water Programs).

PERMITS

Hampton Roads Sanitation District (HRSD) Permit

The HRSD permit regulates all domestic and industrial wastewater generated and discharged into the sanitary sewer collection system at Forts Eustis and Story. Domestic discharges are broadly characterized, while industrial discharges are specifically identified and permitted. All changes in industrial discharges must be approved by HRSD prior to discharge into the sanitary sewer. Discharges that have not been approved will result in a Notice of Violation for unpermitted or illegal discharge. In addition to the NOV, HRSD may assess fines based upon the severity of the activity.

The permit period is three years and the application for renewal must be submitted six months prior to expiration of the permit.

Virginia Pollutant Discharge Elimination System (VPDES) Permit

The VPDES permit allows Fort Eustis and Story to discharge storm water into waters of the state. Each discharge point is classified as residential or industrial. Industrial activities are categorized and based upon activity may be a monitored site. During rain events, samples are collected and analyzed for parameters set by the Virginia Department of Environmental Quality. The permit further requires the development, implementation and annual update of a Storm Water Pollution Prevention Plan. This plan identifies all industrial activities and the Best Management Practices employed to reduce or eliminate contaminants into state waters.

The permit period is four years and the application for renewal must be submitted six months prior to expiration of the permit.

Storm Water General Construction Permit

In accordance with 9 VAC 25-180-10, the aforementioned permit must be obtained for construction activities greater than 5 acres in size. (Note: In March 2003, the size will be changed to one acre in size.) The permit shall be obtained from the Virginia Department of Environmental Quality (DEQ), Attention: Carolyn Putnum at (757) 518-2000. The application for this permit can be obtained from the DEQ website, www.deq.state.va.us/forms/strmcons.html. The fee for obtaining the permit is \$240.00. Once the DEQ receives the completed application, approval can be expected in approximately one week. Contractors applying for this permit are encouraged to submit their Sedimentation and Erosion Control Plan (SECP) for approval prior to making application, as the permit application addresses the plan and whether approval for the SECP has been received. Once the permit is received, a copy should be forwarded to the Directorate of Public Works, Environmental and Natural Resources Division (Attention: Storm water Program).

At the completion of the permitted construction project, the contractor shall apply to the DEQ for "Notice of Termination." This shall be accomplished when the site has reached final stabilization and all storm water discharges from the construction activity that are authorized by the permit are eliminated or where the operator of the construction site has changed. Notice of Termination must be submitted within 30 days after final stabilization has been achieved or when the contractor is no longer the operator. A copy of the Notice to Terminate shall be submitted to the Directorate of Public Works, Environmental and Natural Resources Division (Attention: Storm Water Program).

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