

## CHAPTER 4: WASTEWATER

### 1. Purpose

This chapter sets forth the procedures to be followed for disposal of wastewater.

### 2. Scope

The procedure applies to the Fort Greely, Alaska (FGA) Garrison and the Missile Defense Complex (MDC). This procedure governs the characteristics of wastewater discharged to sanitary sewer systems and to septic tanks. This procedure also covers the discharges of oil/water separators, and the disposal of contained water at FGA Garrison and the MDC.

Except where noted, this procedure does not apply to activities controlled by Doyon Utilities, LLC.

### 3. Responsibilities

#### a. Garrison Commander

The Garrison Commander is the responsible official for environmental compliance at FGA and provides overall policy and guidance associated with environmental compliance. The Commander will consult regularly with the FGA Environmental Office (FGAENV) to insure that the installation's environmental policies and procedures are consistent with federal, state and Army requirements and are properly implemented. The Commander will consult regularly with all installation tenant organizations and departments and facilitate resolution of conflicts regarding environmental matters that cannot be resolved at lower levels.

#### b. FGA Department of Public Works (DPW)

##### (1) DPW Director/Contract Management

The DPW Director manages all DPW activities at FGA. The DPW oversees and directs the Base Operations Contractor (BASEOPS) activities for the following:

- (a) Wastewater discharges to the FGA Cantonment sanitary sewer system through direct connections to the system and direct discharges into the headworks
- (b) Wastewater discharges to the FGA Cantonment's and MDC's septic tanks
- (c) Oil/water separator discharges
- (d) Disposal of storm water/snow melt on loading racks, in sumps and secondary containment structures.

(2) DPW Environmental Division (FGAENV)

FGAENV advises DPW, tenants, and contractors of environmental requirements and provides assistance in achieving and maintaining compliance. As the Garrison Commander's environmental representative, FGAENV is the point of contact for interface with federal, state, and local environmental regulatory agencies on environmental compliance matters associated with Garrison and tenant activities, except for those managed by Doyon Utilities (DU). In the event of a non-compliant activity, FGAENV shall seek resolution. If a non-compliant activity is operated by DU, FGAENV shall assist when requested to achieve resolution.

c. Missile Defense Complex (MDC)

The Missile Defense Agency and 49th Space Battalion manage operations and activities at the MDC. They will insure that all contractors and personnel providing services or conducting operations at the MDC comply with this procedure and any related federal and state environmental requirements. They will promptly consult with FGAENV and/or the Garrison Commander, regarding any special considerations (e.g., security) or other issues that may affect environmental compliance at the MDC.

d. Tenants, Contractors, FGA Waste Generating Activities

Tenants, contractors, military, Department of Defense civilians, and all FGA waste generating activities are required to comply with the applicable provisions of this procedure. Tenants, contractors, and FGA activities shall discharge only domestic sewage and nonhazardous industrial wastewater to the FGA wastewater system and septic tanks.

e. Doyon Utilities (DU)

The FGA Cantonment wastewater treatment system, including collection, treatment, disposal, monitoring, and reporting, is owned and operated by DU. The majority of the septic tank systems throughout the FGA Cantonment property including Old Post, Mid Post, and Visitor Control are owned and maintained by DU. FGAENV does not supervise or review the activities of DU. When prudent, DU informs the DPW of any problems with the operation of the plant and facilities associated with the entire collection and treatment process. DU is responsible for notifying DPW and the FGA community whenever the treatment operations have the potential to pose a health hazard or inconvenience to the FGA community.

#### 4. Operations

##### Wastewater Related

a. Wastewater Discharges to Sanitary Sewer System

- (1) Discharges to drains connected to the FGA wastewater treatment system and to the headworks are restricted to domestic sewage and nonhazardous industrial wastewater.
- (2) Hazardous industrial wastewater (other than as defined below for an oil/water separator) is prohibited for discharge to floor drains or any other opening to the sewer system, headworks, septic tanks, and oil/water separators.
- (3) Organizations are required to consult with DU and FGAENV as to the acceptability of adding a new discharge and/or a new pollutant to the sewer system, headworks, and septic tanks. Information shall be provided on the chemical composition (e.g. MSDS), volume, and concentration for new discharges and/or pollutants.

b. Oil/Water Separators (OWSs)

- (1) Only oily residue from vehicle washing at wash racks connected to an OWS is permitted to be discharged to an OWS.
- (2) Use of detergents and any type of emulsifier is prohibited for any water entering an OWS.
- (2) The OWSs on FGA Cantonment draining into the FGA sewer system include the following:
  - (a) Bldg 605, CRTC Vehicle Maintenance
  - (b) Bldg 615, CAJV/DPW Heavy Equipment Maintenance
  - (c) Bldg 626, MWR Auto & Hobby Shop
  - (d) Bldg 637, Hazardous Waste Storage Facility
  - (e) Bldg 634, 49<sup>th</sup> Vehicle Maintenance Shop (2 OWSs)
  - (f) Bldg 658, Boeing HSS Maintenance Shop

- (4) All OWSs on the MDC drain into septic tanks.

c. Septic Tanks and Leach Fields

- (1) Hazardous wastewater is prohibited for discharge to septic tanks.
- (2) Wastewater discharge to septic tanks is restricted to domestic waste, nonhazardous industrial wastewater and water from oil/water separators.

- (3) State of Alaska approvals are required for both construction and operation of a septic tank and leach field.
- (4) Septic Tanks and Leach Fields on FGA Cantonment and MDC
  - (a) Mid Post, Bldg 349, Maintenance (BASEOPS)
  - (b) Main Post, Skeet Range (BASEOPS)
  - (c) MDC, Readiness and Control Bldg (R&C)
  - (d) MDC, Entry Control Facility (ECF) #1
  - (e) MDC, Missile Assembly Bldg (MAB)
  - (f) MDC, DSCS
  - (g) MDC, Mechanical Electrical Bldg (MEB)
  - (h) MDC, IDT Storage Facility (ISFAC)
  - (i) MDC, Entry Control Facility (ECF) #2

d. Contained Water

- (1) Rain and snow melt collected on FGA Cantonment and MDC fuel farm loading racks and secondary containment structures is allowed to be drained to the surrounding soil provided the water does not have an oily sheen. If the water has an oily sheen, then the water shall be removed by the hazardous waste contractor for discharge through an oil/water separator.
- (3) Discharges contained in sumps and holding tanks shall be removed by the hazardous waste contractor and correctly disposed. Water collected in sumps and holding tanks shall be approved by DU prior to being discharged to the wastewater collection system (sanitary sewer) (See Section 4.d.3).
- (3) Disposal of contained water shall be in accordance with DEC General Permit No. 2003-DB0089. FGA and MDC are required under the permit to comply with all terms and conditions. Contained water is defined in the permit as "water isolated from the environment in a manmade container or a lined impoundment structure." Contained water includes but is not limited to: "hydrostatic test water or chlorinated water from tanks, pipelines, swimming pools, and other containers that meet state water quality standards..."

## 5. Surveillance

### Maintenance

- a. At least annually, the hazardous waste contractor shall pump out all OWS on the MDC and on the FGA Cantonment that are not owned by DU. All residues shall be managed by the hazardous waste contractor.
- b. At least annually, BASEOPS is required to pump out all septic tanks and holding tanks on the MDC and on the FGA Cantonment that are not owned by DU. BASEOPS shall coordinate with DU for septage disposal.
- c. All leach fields for septic tanks on the MDC, and those on the Cantonment under the control of BASOPS shall be observed monthly to confirm septic tank effluent is not pooling on the surface of the fields. Leach fields with inadequate drainage are a potential human health hazard. In the event inadequate drainage is discovered at a leach field, the finding is to be reported to FGAENV within 24 hours of discovery.

## 6. Record Keeping

- a. All inspections and maintenance on OWS, septic tanks, and leach fields shall be documented in the operating record and be available upon request at each site.
- b. All records and information resulting from wastewater activities not under the control of DU shall be retained at FGA for review by Alaska Department of Conservation (ADEC) and U.S. Environmental Protection Agency (USEPA) for five years. If requested by ADEC and USEPA, FGA shall submit certified copies of records.

## 7. Reporting

### BASEOPS

BASEOPS shall make notification to FGAENV in a timely manner concerning activities that are conducted inconsistent with the requirements of this procedure.

## 8. Training

### BASOPS

BASOPS shall ensure personnel have the training required to perform the tasks required by this procedure.

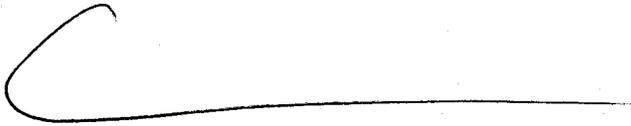
## 9. References

- a. State of Alaska Wastewater Disposal Regulations, 18 AAC 72

b. State of Alaska Department of Environmental Conservation Waste Disposal General Permit No. 2003-DB0089

**10. Approval**

Chapter 4 – Wastewater of Fort Greely's Environmental Procedures Manual is hereby approved as revised. All previous versions of this Chapter are superseded and are no longer in effect.



Christine Boerst  
Director  
Directorate of Public Works



Date