Fort Hood Storm Water Management Plan

Rev. 2

September 2008

Prepared in accordance with
TPDES General Permit TXR040000

Prepared by
Directorate of Public Works
Environmental Division
Water Program

Table of Contents

Figures

Tables

Appendices

Signatory Requirements

This Storm Water Management Plan (SWMP) was prepared in accordance with the provisions of the Texas Pollutant Discharge Elimination System (TPDES) TXR040000 General Permit for eligible discharges that reach the Waters of the United States. In addition, this management plan will incorporate all requirements for public participation included in Part II.D.12 of the TPDES TXR040000 General Permit.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Roderick Chisholm 5 FEB 08

Roderick A. Chisholm, Date
Director of Public Works

1 Introduction

This Storm Water Management Plan (SWMP) describes the procedures that Fort Hood will implement to comply with the requirements of the Texas Pollutant Discharge Elimination System (TPDES) General Permit No. TXR040000 for Small Municipal Separate Storm Sewer Systems (MS4).

1.1 Background Information and Other Requirements

In November 1990, the United States Environmental Protection Agency (USEPA) implemented the National Pollutant Discharge Elimination System (NPDES) Phase I storm water regulations. The Phase I regulations required medium and large MS4s, communities of 100,000 people or more within urbanized areas (UA), to obtain NPDES permits to discharge storm water runoff to the environment. In 1999 the USEPA initiated Phase II which required small MS4s (populations of less than 100,000 people within a UA) to obtain NPDES permits to discharge storm water runoff. The purpose of the Phase II storm water regulations is to provide a flexible approach for reducing environmental harm caused by storm water discharges that were not previously regulated.

In the state of Texas, the Texas Commission on Environmental Quality (TCEQ) has been authorized by the USEPA to implement all storm water regulations. The TCEQ developed the general permit for small MS4s, which was signed by the Commission on August 13, 2007. According to the general permit, a small MS4 that is fully or partially located within a UA, as determined by the 2000 Decennial Census by the U.S. Bureau of Census, must obtain authorization from the TCEQ to discharge storm water runoff. Based upon the 2000 Decennial Census, the majority of the main cantonment of Fort Hood lies within the UA (Fig. 1).

The MS4 general permit requires Fort Hood to develop a comprehensive storm water management program that reduces the discharge of pollutants to the maximum extent practicable, protects water quality, and satisfies the requirements of the MS4 general permit. This SWMP outlines the best management practices (BMP), measurable goals, and target dates that Fort Hood proposes to implement for the six minimum control measures (MCM) listed below:

- Public Education and Outreach
- Public Involvement/Participation
- Illicit Discharge Detection and Elimination
- Pollution Prevention/Good Housekeeping for Municipal Operations
- Construction Site Storm Water Runoff Control
- Post-Construction Storm Water Management in New Development and Redevelopment

Each MCM contains mandatory components that must be addressed in the SWMP in order to obtain authorization under the general permit. Records must be maintained to document all activities preformed to implement this SWMP, and Fort Hood must submit annual reports to the TCEQ. The annual reports document the BMPs implemented during the previous calendar year, evaluates the effectiveness of the BMPs at reducing storm water pollution, and identifies any changes to the SWMP that are proposed for the next year.

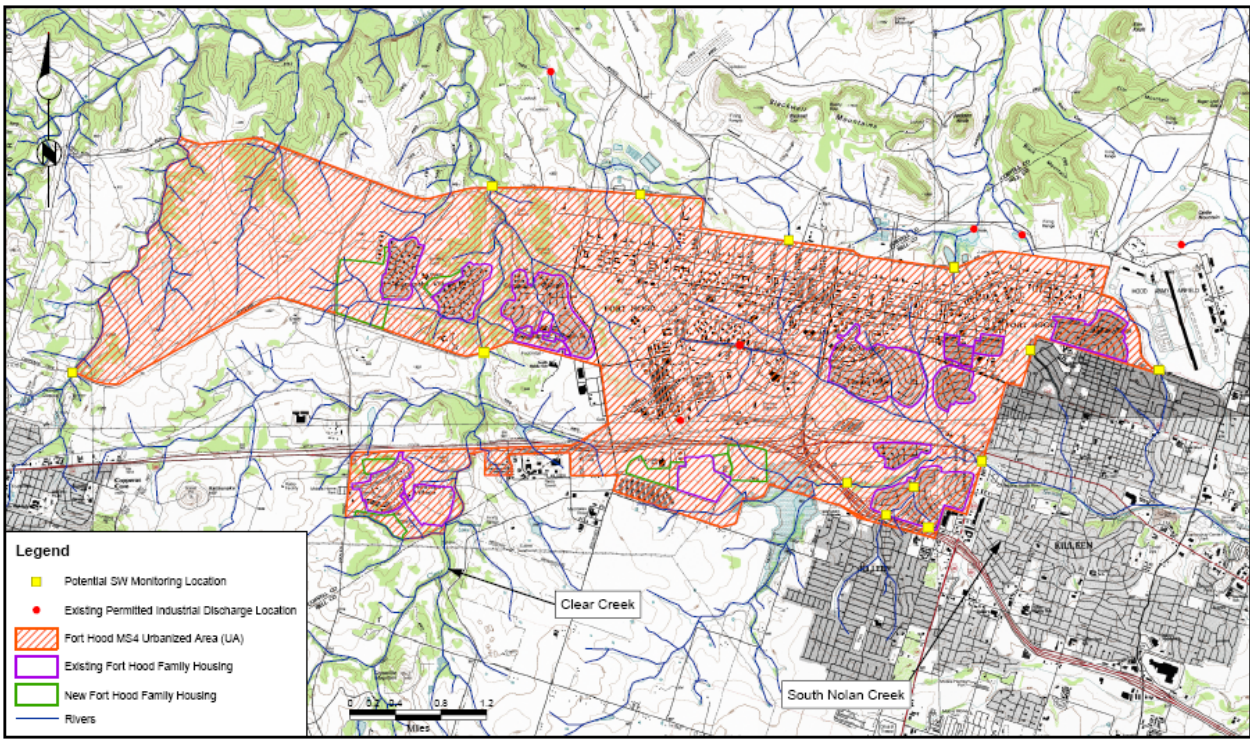

Figure 1 – Fort Hood Urbanized Area Map

1.2 Rationale Statement

Fort Hood, being a military installation, possesses unique characteristics that set it apart from an urban municipality. Fort Hood's primary mission is to provide a power projection platform in support of the full spectrum of military operations. Fort Hood is also committed to providing responsible stewardship of natural resources and complying fully with federal and state environmental regulations.

The Fort Hood Garrison staff can issue policies and regulations, which upon approval by the leadership become enforceable across the installation. In lieu of city ordinances, the military infrastructure also permits stringent policy implementation so that violations can be dealt with in a rapid and effective manner. Fort Hood is aware that environmental concerns play a major role in the ability to train its Soldiers. These significant characteristics were taken into account during the development of this plan to meet the requirements of the general permit without negatively impacting the mission or operational capabilities of the installation.

1.3 Installation Characteristics/Setting

Fort Hood is located northwest of the City of Killeen in Central Texas. The Installation is approximately 70 miles north of Austin, 70 miles south of Waco, and 130 miles south of Dallas. Fort Hood consists of 214,778 acres in Bell and Coryell Counties. See Figure 2 for a map of the general location of Fort Hood.

Fort Hood is an armored training installation. The primary land use on the installation is for combat training including maneuver, live fire, and impact areas. Two airfields are also located on Fort Hood. One is used for helicopters only and the other serves both fixed-wing and rotary aircraft. Robert Gray Army Airfield was recently transformed into a joint use regional airport serving commercial aircraft as well. Approximately 191,000 acres are used for combat training operations, and the other 24,000 acres include the airfields, residential communities, military motor pools and administrative buildings, Garrison support facilities, and some commercial (shopping and dining) activities.

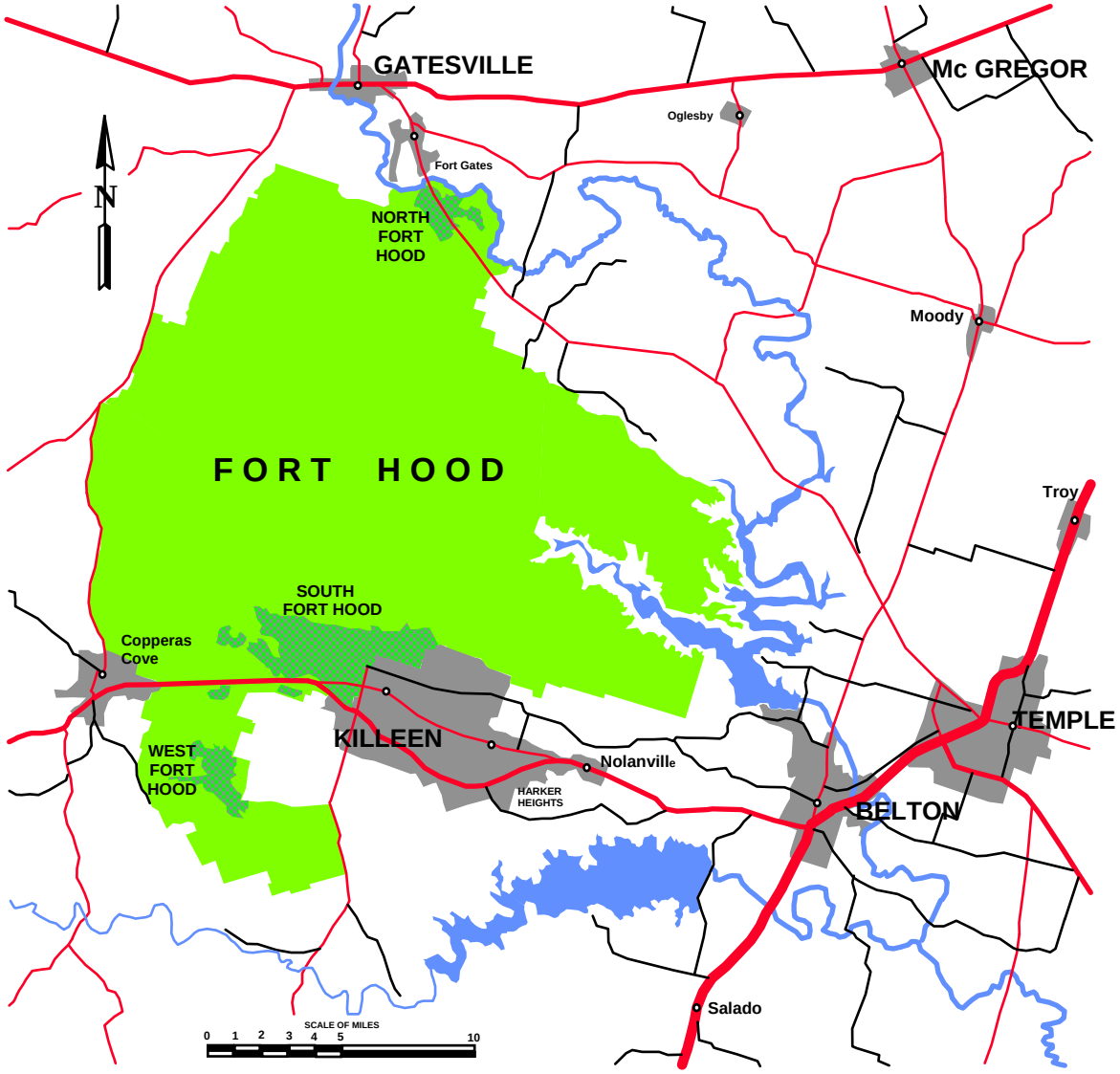

Figure 2 – General Location Map of Fort Hood

1.3.1 Terrain

Topographic features on the installation include valleys, buttes, and mesas. The terrain consists of partly dissected plains that rise from remnants of old plateaus. Geologic formations are rock layers consisting of thin- to medium-bedded, hard, continuous limestone strata. The soil cover in the area is generally shallow to moderately deep, clay-rich, and underlain by limestone bedrock. Elevations range from 590 feet to 1200 feet with most below 850 feet. Most slopes are in the two to five percent range, although some slopes in excess of 45 percent occur as bluffs along the side of mesas and hills.

1.3.2 Drainage Features

Fort Hood is in the Brazos River Basin on the eastern boundary of the Comanche Plateau. Fort Hood is completely contained by the Leon and Lampasas River watersheds. These watersheds include two federal reservoirs (Belton and Stillhouse Hollow Lakes), which provide flood control, public water supplies, and recreational opportunities. The majority of the installation is in the Cowhouse Creek drainage area and upstream of Lake Belton. However, a portion of the cantonment area is in the Nolan Creek sub-watershed that drains into the Leon River below Belton Lake. North Fort Hood drains into the Leon River above Belton Lake and a portion of West Fort Hood drains into tributaries of the Lampasas River. Figure 3, on the following page, provides a detailed map of the Fort Hood watersheds.

1.3.3 Urbanized Area

The Fort Hood UA, shown in Figure 1, is adjacent to and west of the City of Killeen and northeast of the City of Copperas Cove, along the US Highway 190 corridor. It encompasses almost the entire main cantonment area, commonly referred to as South Fort Hood, in addition to the residential areas on West Fort Hood.

1.4 Organization Overview

Fort Hood is “The Army’s premiere installation to train and deploy heavy forces”, and is the only installation in the United States currently capable of stationing and training two Armored Divisions. In addition to the 1st Calvary Division and the 4th Infantry Division, Fort Hood is also home to numerous other tenant organizations including several Reserve and National Guard units. Approximately 44,900 active duty Soldiers are stationed at Fort Hood, along with 17,000 family members that reside on the installation. In addition, about 13,500 civilian personnel (civil service and contractors) are employed here.

Fort Hood’s management structure is divided into two separate entities, Mission and Garrison. The Mission supports the training, mobilization, deployment, and sustainment of ready forces. The Garrison provides services and maintains infrastructure to support the mission and the well being of the Department of the Army (DA) family. All regulated activities under the TPDES

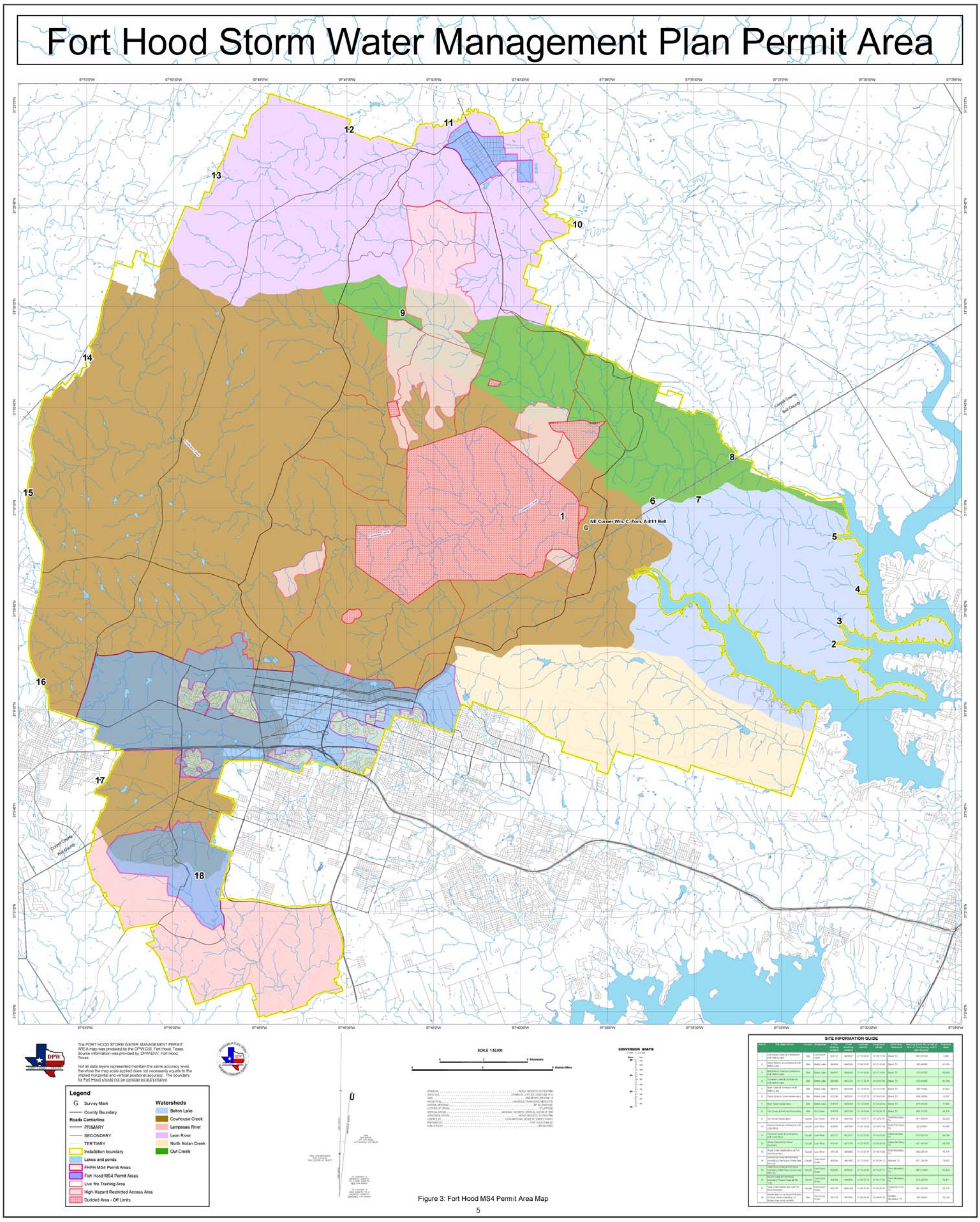

Figure 3: Fort Hood MS4 Permit Area Map

Figure 3 – Fort Hood MS4 Permit Area Map

General Permit No. TXR040000 fall under the command of the Garrison. The Directorate of Public Works (DPW) Division conducts all municipal operations on Fort Hood and is in charge of implementing the SWMP. Figure 4 shows the overall organization of the Garrison, DPW Division.

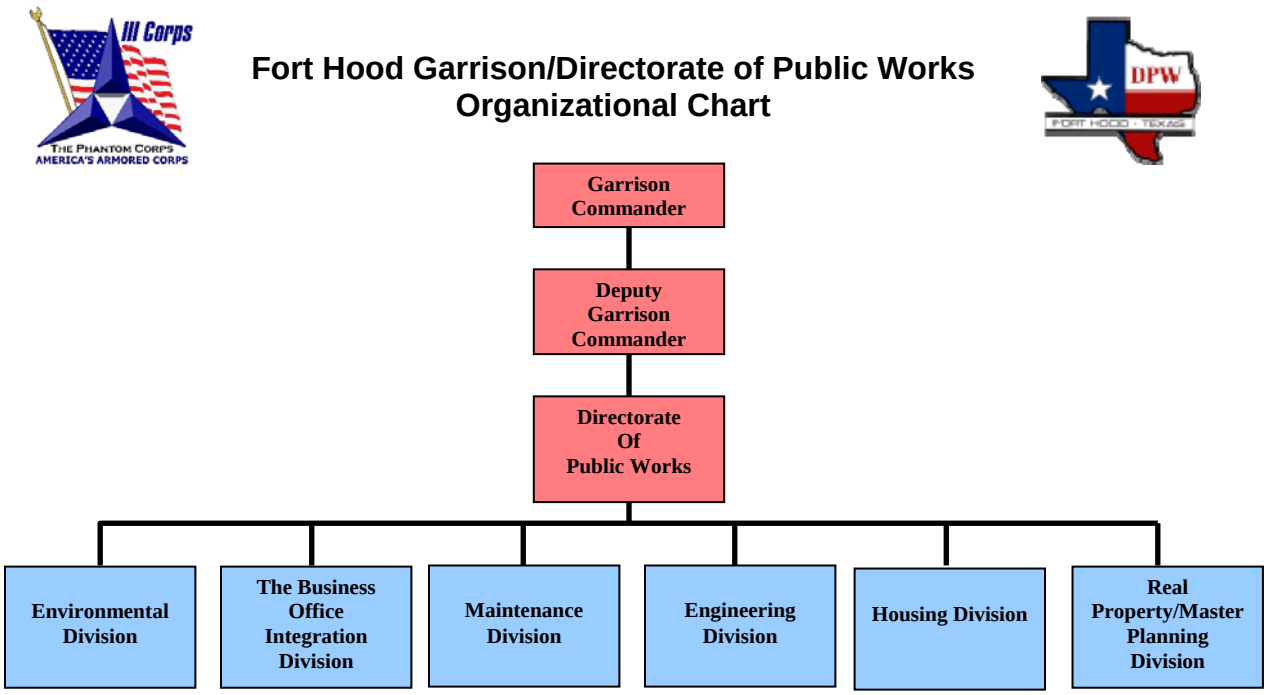

Figure 4 – Organizational Chart

1.4.1 Garrison Commander

The Garrison Commander's (GC) responsibilities are equivalent to that of the Mayor of a city. The GC's primary responsibilities include providing services to the Soldiers and their family members including housing, maintenance, public works, morale and welfare, and the overall well being of the DA family. The Deputy GC is tasked with aiding the GC in meeting the goals and missions of the Garrison organization.

1.4.2 Directorate of Public Works

The Directorate of Public Works (DPW) responsibilities are equivalent to that of a City Manager. DPW's mission is to provide quality maintenance, construction, engineering, protection, and housing services for the Fort Hood community. The DPW manages six divisions including the Environmental Division, the Business Office Integration Division, the Maintenance Division, the Engineering Division, the Housing Division, and the Real Property/Master Planning Division. Together these divisions provide the Fort Hood community with excellent facilities and innovative services through a customer focused, quality driven, efficient, and responsive team.

1.4.3 Environmental Division

The Directorate of Public Works Environmental Division (DPW-ENV) manages the conservation, restoration, protection, and enhancement of the environment and its natural resources. The primary responsibilities of the DPW-ENV include the environmental compliance of water, air, and hazardous materials, natural resources (fish, wildlife, and land management), energy, archaeological resources, pollution prevention, and recycling.

1.4.4 The Business Office Integration Division

The Business Office Integration Division (DPW-BOID) provides the management of directorate resources, information technology, human resources, and provides organizational strategic planning. The primary responsibilities of the DPW-BOID include providing financial planning, analysis, programming support, and industrial engineering services. DPW-BOID provides oversight to the customer service program, including improvement of business practices and evaluation of customer feedback.

1.4.5 Maintenance Division

The Maintenance Division (DPW-MNT) consists of tradesmen and craftsmen who perform maintenance and repair such as heating, ventilation, and air conditioning (HVAC), carpentry, electrical, and plumbing to buildings and facilities throughout Fort Hood. Trained crews also provide maintenance and repair to paved and unpaved roads, overhead high voltage electrical systems, traffic control devices, and utilities (i.e. water, waste water, and natural gas). Employees also fabricate and install all signs, install and repair locks, and manage fleet maintenance.

1.4.6 Engineering Division

The Engineering Division (DPW-ENG) is comprised of two major branches, the Engineering branch and the Services branch. The goal of DPW-ENG is to provide the best engineering, project management, and services to the Fort Hood community. Primary responsibilities include planning, programming, designing/developing, assisting with acquisition, and administering and closing out contracts.

1.4.7 Housing Division

The Fort Hood Family Housing Division (FHFH) manages approximately 6,000 houses in 13 residential subdivisions located throughout Fort Hood. FHFH's mission is to provide quality housing and housing services to soldiers and their families. FHFH conducts maintenance on all houses, streets, and storm drains located within the residential subdivisions. For the purpose of this SWMP, FHFH will create a separate SWMP and gain permit authorization to meet the

requirements of the TPDES General Permit No. TXR040000. DPW and FHFH will work together by sharing efforts to meet the requirements of the general permit. The individual responsibilities of each operator are described in Sections 3 though 8 of this SWMP.

1.4.8 Real Property Planning Division

The Real Property Planning Division (DPW-RPPD) is comprised of two major branches, the Real Property branch and the Planning branch. The goal of the Real Property branch is to place the Soldiers into the best facilities possible to meet organizational requirements. Real Property's staff performs inventory management, property authorization inspection functions, and all real Estate actions to include leases, permits, land transfers, easements, and licenses.

The Planning branch plans for future expansion and community integration of the DA family, quality of life, environmental, and mission needs. The staff directs and plans installation development to blend with the local community development and supports the Army customer by planning and programming Military Construction, Army (MCA), Operations and Maintenance, Army (OMA), and Non-appropriated Fund (NAF) projects.

1.5 Permit Coverage Area

According to the TPDES General Permit No. TXR040000, the only area of Fort Hood where this plan must be implemented is within the boundary of the UA (see Figure 1). Additional areas could be designated by TCEQ outside of the UA, but they have not done so yet. However, it would be extremely difficult and troublesome to try to implement this plan only on some areas of the installation and not others. Therefore, management has decided that with the exception of most military training areas, a 55 acre tract of land held in trust for Native American Tribes, and the 13 residential subdivisions covered under the FHFH SWMP, the requirements of this plan will be applied uniformly across the remainder of the installation to all organizations and activities that could impact the quality of our storm water discharges (see Figure 3).

2 General Permit Requirements

Since some of Fort Hood is located within a UA, we are required to obtain coverage under TPDES General Permit No. TXR040000. In order to obtain coverage, Fort Hood must prepare a SWMP, then submit a copy of the SWMP along with a permit application to the TCEQ. This section summarizes the requirements of the general permit.

2.1 Application for Coverage

In order to apply for coverage under the general permit, Fort Hood must submit to the TCEQ a Notice of Intent (NOI) form, provided by the TCEQ, and a signed copy of this SWMP, within 180 days of the issuance date of the general permit. The NOI must contain the necessary information requested about the MS4 operator and the physical characteristics of Fort Hood.

The SWMP must include a time line that demonstrates a schedule for implementation of the program within five years of the date of the general permit.

2.2 Public Participation

After submittal of the NOI and SWMP, Fort Hood will receive written instructions from the TCEQ. Once Fort Hood has received these instructions, a notice must be published at least once in a newspaper of general circulation in both Bell and Coryell counties. The notice must describe the TCEQ's preliminary evaluation of the NOI and the SWMP.

In addition, Fort Hood must provide the public an opportunity to submit comments on the NOI and SWMP, or request a public meeting. A copy of the NOI and the SWMP will be made available to the public for review and comment at the Killeen main library in Bell County and at the Gatesville public library in Coryell County. A public meeting will be held if the TCEQ determines there is significant public interest. The public comment period begins on the first date the notice is published and ends 30 days later or at the closing of the public meeting, whichever is later.

2.3 Allowable Non-Storm Water Discharges

The following non-storm water sources may be discharged from the MS4 and are not required to be addressed in the MS4s Illicit Discharge Detection and Elimination or any other MCM. Fort Hood has determined that these are not substantial sources of pollutants to the MS4.

- Water line flushing (non-superchlorinated)
- Runoff or return flow from landscape irrigation, lawn irrigation, and other irrigation utilizing unamended potable water, groundwater, or surface water sources
- Discharges from potable water sources
- Diverted stream flows
- Rising ground waters and springs
- Uncontaminated ground water infiltration
- Uncontaminated pumped ground water
- Foundation and footing drains
- Air conditioning condensate
- Water from crawl space pumps
- Individual residential vehicle washing
- Flows from wetlands and riparian areas
- De-chlorinated swimming pool discharges

- Street wash water
- Discharges or flows from fire fighting activities (fire fighting activities do not include washing of vehicles, run-off water from training activities using chemical additives or burning materials, test water from fire suppression systems, and similar activities)
- Other similar, incidental non-storm water discharges, unless the TCEQ develops permits or regulations addressing those discharges.

All other non-storm water discharges are prohibited from being discharged into or from the storm water conveyances on Fort Hood.

2.4 Development of the SWMP

The general permit states that "a SWMP must be developed and implemented, to the extent allowable under state and local law, for storm water discharges that reach waters of the United States". All storm water on or discharging from the boundaries of Fort Hood are covered under this plan, except for locations already covered by the Multi Sector General Permit for Storm Water Discharges from Industrial Activities (TXR050000). The SWMP must be developed to prevent pollution in storm water to the maximum extent practicable (MEP) and to effectively prohibit illicit discharges to the system. The MS4 operator (DPW) must use existing programs or BMPs, or develop and implement new ones, to fulfill the requirements of the following six Minimal Control Measures.

2.4.1 Public Education and Outreach

Fort Hood must develop a public education program to distribute educational materials to the community, or conduct equivalent outreach activities. This education program should inform the public about the impacts that storm water pollution can have on water quality, hazards associated with illegal discharges, or the improper disposal of wastes, and ways the public can minimize their negative impacts on storm water quality. The following groups must be considered when developing BMPs for this MCM.

- Residents
- Visitors
- Public service employees
- Businesses
- Commercial and industrial facilities
- Construction site personnel

2.4.2 Public Involvement /Participation

Fort Hood must develop a program that includes opportunities for a wide variety of constituents to participate in the development, implementation, and future revisions of the SWMP.

2.4.3 Illicit Discharge Detection and Elimination

Fort Hood must establish a program to detect and eliminate illicit discharges to the MS4. An ordinance or other regulatory mechanism must be utilized to prohibit and eliminate illicit discharges. A storm sewer map must be developed that lists all outfalls and receiving waters, and a method to regularly update the map.

2.4.4 Construction Site Storm Water Runoff Control

Fort Hood must develop, implement, and enforce a program to reduce pollutants in storm water runoff from permitted construction activities. The program must include an ordinance or other regulatory mechanism to require erosion and sediment controls, sanctions to ensure compliance (as allowed by law), and site inspection and enforcement procedures.

2.4.5 Post Construction Storm Water Management in New Development and Redevelopment

Fort Hood must develop and implement a program to effectively manage the quantity and quality of storm water discharging from the MS4. This program must use an ordinance or other regulatory mechanism to address post-construction runoff from new development and re-development (alterations of a property that changes the footprint of a site or building in such a way that there is equal to or greater than one acre of land disturbance). Fort Hood must develop an implement a program that emphasizes strategies which include a combination of structural and/or non-structural BMPs appropriate for the community. The overall goal of this MCM is to ensure adequate long-term operation and maintenance of the MS4.

2.4.6 Pollution Prevention/Good Housekeeping for Municipal Operations

Fort Hood must establish an operation and maintenance program, including an employee training component, which has the ultimate goal of preventing or reducing pollutant runoff from municipal operations. While Fort Hood is considered a federal military installation and therefore is not a traditional municipality, Garrison operations here have many traits in common with typical municipal activities. The following are some examples of those operations and areas.

- Park and open space maintenance
- Street, road, or highway maintenance

- Fleet and building maintenance
- Storm water system maintenance
- New construction and land disturbances
- Municipal parking lots
- Vehicle and equipment maintenance and storage yards
- Waste transfer stations
- Stockpiled material storage locations

A training program must be developed for all employees responsible for municipal operations subject to this permit, to include training materials directed at preventing and reducing storm water pollution. The maintenance of structural controls (storm drain inlets, culverts, pipes, ponds, etc.) must be performed at a frequency determined by DPW and consistent with maintaining the effectiveness of the controls. In addition, a section within the SWMP must include procedures for the proper disposal of waste removed from the MS4, and waste collected as a result of maintenance on storm water controls.

2.5 Recordkeeping and Reporting

Fort Hood is required to retain a copy of the general permit, all data used to complete the Notice of Intent and records of public participation in the process. A copy of the SWMP and the NOI must also be retained at a location that is readily accessible to the TCEQ. In addition, Fort Hood must also make the NOI and this plan available to the general public if requested to do so in writing. The copies must be made available within 10 working days of receipt of a written request.

2.5.1 Annual Report

Fort Hood will keep a record of all activities conducted to provide documentation of the development, implementation, and evaluation of the SWMP. An annual report describing the actions taken to meet the permit requirements must be submitted to the TCEQ by March 31st for each year of the permit term. The annual report must address the previous calendar year and must include the following information.

- The status of compliance with permit conditions, an assessment of the appropriateness of the identified BMPs, progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, the measurable goals for each MCM, and an evaluation of the success of the implementation of the measurable goals
- Status of any additional control measures implemented by the permittee (if applicable)
- Any MCM activities initiated before permit issuance may be included, under the appropriate headings, as part of the first year's annual report

- A summary of the results of any information (including monitoring data) collected and analyzed during the reporting period, and used to assess the success of the program at reducing the discharge of pollutants to the MEP
- A summary of the storm water activities the MS4 operator plans to undertake during the next reporting cycle
- Proposed changes to the SWMP, including changes to any BMPs or any identified measurable goals that apply to the program elements
- The number of municipal construction activities authorized under this general permit and the total number of acres disturbed
- The number of non-municipal construction activities that occurred within the jurisdiction of the permittee (as noticed by the permittee by the construction operator)
- Notice that the MS4 operator is relying on another government entity to satisfy some of its permit obligations (if applicable)

2.5.2 Non-compliance Notification

Fort Hood must also report any non-compliance issues which may endanger human health, safety, or the environment. The non-compliance issues must be reported by phone or fax to the TCEQ regional office within 24 hours of becoming aware of the non-compliance. If reported by phone, a written report of each non-compliance must be submitted within five working days of becoming aware of the non-compliance. Each written report should be made using form TCEQ-0501, and must include the following information.

- A description of the non-compliance issue
- The potential danger to human health, safety, or the environment
- The period of non-compliance, including exact dates and times
- If the non-compliance issue has been corrected
- The anticipated time the non-compliance issue is expected to continue, and
- Steps taken or planned to reduce, eliminate, and prevent recurrence of the non-compliance issue, and to mitigate adverse effects

3 MCM-1 Public Education and Outreach on Storm Water Impacts

According to the TPDES General Permit No. TXR040000, Fort Hood must develop a public education program that distributes educational materials to the public or conducts equivalent outreach activities on storm water discharges that enter the MS4. The educational program must be developed to inform the following groups:

- Residents
- Visitors
- Public Service Employees
- Businesses
- Commercial and Industrial Facilities
- Construction Site Personnel

Fort Hood will implement the following BMPs to satisfy the requirement for this MCM.

3.1 MCM-1; BMP-1: Training Courses

Fort Hood will develop training courses that will educate Soldiers, municipal employees, contractors, and commercial and industrial businesses on the impacts of daily activities on storm water quality. Fort Hood will develop/update the following training courses:

- Storm water pollution prevention module for the Environmental Compliance Officer Training (ECO) course.
- Construction site operator compliance course
- Industrial site storm water pollution prevention training
- Fats, Oils, & Grease (FOG) training course for dining facilities (DFAC) and restaurants

3.2 MCM-1; BMP-2: Educational Materials

Educational materials will be developed by Fort Hood to educate the Fort Hood community on the impacts that every day activities can have on storm water quality. The DPW-ENV division and the FHFH division will work together to create materials that will cover topics such as automotive maintenance, lawn care maintenance, household disposal of fats, oils and grease, household hazardous waste, pet waste management, and watershed maintenance. Some of the materials that Fort Hood will use to achieve the implementation of the BMP include flyers, posters, newsletter inserts, newspaper articles, and television promotions. Fort Hood will conduct the following activities to implement BMP-3.2.

- Create, distribute, and display posters educating the public on storm water awareness
- Develop newspaper articles to be published in the Fort Hood Sentinel
- Give presentations and distribute educational handouts at the Community Service Council (CSC) meetings
- Develop storm water awareness articles for the monthly housing newsletter for on-post residents.

3.3 MCM-1; BMP-3: Environmental Outreach Events

Fort Hood conducts numerous outreach events and attends several outreach events within the surrounding communities. DPW-ENV personnel will attend these outreach events in order to promote environmental awareness as well as storm water pollution prevention awareness. To implement BMP-3, DPW-ENV will provide a storm water awareness display at various events that may include:

- Earth Day (once per year)
- Visits to area schools
- Hood Howdy (twice per year)
- Recycle Day (once per year)

3.4 MCM-1; BMP-4: DPW-ENV Storm Water Website

The Fort Hood Garrison webpage hosts links to organizations within the Garrison, including the Directorate of Public Works (DPW). The DPW website contains information about each division within the organization and their mission on Fort Hood. The environmental division will prepare a storm water website that educates the Fort Hood general public on storm water awareness and best management practices to maintain or improve storm water quality. The website will contain downloadable brochures, links to educational websites, and other information to educate the Fort Hood community about the importance of keeping our storm water clean.

3.5 MCM-1 Schedule

Fort Hood will use the schedule on the following page (Table 1) to implement the BMPs for MCM-1.

3.6 Responsible Parties

DPW-ENV will be responsible for tracking and recording all BMP implementation to meet the measurable goals for MCM-1. The measurable goals will be tracked by the DPW-ENV Storm Water Quality Specialist using an MS4 storm water software database and other programs as applicable. BMP effectiveness will be evaluated using the evaluation criteria stated in Table 1. The BMP effectiveness will be recorded in the annual report.

Table 1.1 Fully Implemented BMPs for MCM-1

BMP	Measurable Goals	Evaluation Criteria	Responsible Party
3.1 ECO Course	• Conduct 1 ECO course per quarter	• Conduct 1 ECO class per quarter and record attendance	DPW-ENV
3.1 Industrial Site Storm Water Pollution Prevention training	• Conduct annual pollution prevention training for personnel at industrial sites	• Annual training completed and documented	DPW-ENV
3.2 Construction Site Storm Water Pollution Prevention Poster	• Issue educational outreach poster to construction site personnel for display at construction sites	• Posters issued to construction sites and displayed	DPW-ENV
3.3 Earth Day Event	• Conduct educational booth with handouts at annual Earth Day event	• Provide educational display with handouts at Earth Day event and record	DPW-ENV
3.3 Conduct Visits to area schools	• Visit area schools and provide educational display with handouts	• Provide educational display with handouts and record	DPW-ENV

Table 1.2 BMP Implementation Schedule for MCM-1

Target Date	BMP	Measurable Goals	Evaluation Criteria	Responsible Party
Year 2	3.1 Training Courses	• Develop a FOG training course	• FOG training course developed, reviewed, and finalized.	DPW-ENV
	3.2 Educational Materials	• Develop educational posters and flyers for handout • Distribute educational posters and flyers • Develop newspaper article and publish in Sentinel	• Complete posters and flyers for handout • Distribute posters and flyers and document • Publish one article in Sentinel	DPW-ENV; DPW-FHFH

	3.3 Outreach events	• Provide display at Hood Howdy	• Provide educational display at one Hood Howdy event	DPW-ENV
	3.4 Storm water website	• Develop storm water website	• Complete storm water website and post on internet	DPW-ENV; DPW-BOID
Year 3	3.1 Training Courses	• Conduct FOG training at 1 DFAC per quarter • Develop construction site operator compliance course	• Complete FOG training and document • Develop construction site operator compliance course, review, and finalize.	DPW-ENV
	3.2 Educational Materials	• Distribute educational posters and flyers • Develop newspaper article and publish in Sentinel • Discuss storm water quality and distribute educational handouts at the CSC meeting • Develop 2 storm water awareness articles for monthly housing newsletter	• Distribute posters and flyers and document • Publish 2 articles in Sentinel • Attend one CSC meeting, distribute materials and document • Publish 2 articles in monthly housing newsletter	DPW-ENV; DPW-FHFH
	3.3 Outreach events	• Provide display at Hood Howdy • Provide display at Recycle Day	• Provide educational display at two Hood Howdy events • Provide educational display with handouts at Recycle Day	DPW-ENV
	3.4 Storm water website	• Review and update storm water website	• Website updated with most current information	DPW-ENV; DPW-BOID
Year 4	3.1 Training Courses	• Conduct FOG training at 1 DFAC per quarter • Construction site operator compliance course	• Complete FOG training and document • Complete one construction site operator compliance course per year and document attendance	DPW-ENV
	3.2 Educational	• Distribute educational posters and	• Distribute posters and flyers	DPW-ENV; DPW-

	Materials	flyers • Develop newspaper article and publish in Sentinel • Discuss storm water quality and distribute educational handouts at the CSC meeting • Develop 2 storm water awareness articles for monthly housing newsletter	and document • Publish two articles in Sentinel • Attend one CSC meeting, distribute materials and document • Publish 2 articles in monthly housing newsletter	FHFH
	3.3 Outreach events	• Provide display at Hood Howdy event • Provide display at Recycle Day	• Provide educational display at two Hood Howdy events • Provide educational display with handouts at Recycle Day	DPW-ENV
	3.4 Storm water website	• Review and update storm water website	• Website updated with most current information	DPW-ENV; DPW-BOID
Year 5	3.1 Training Courses	• Conduct FOG training at 1 DFAC per quarter • Construction site operator compliance course	• Complete FOG training and document • Complete one construction site operator compliance course per year and document attendance	DPW-ENV
	3.2 Educational Materials	• Distribute educational posters and flyers • Develop newspaper article and publish in Sentinel • Discuss storm water quality and distribute educational handouts at the CSC meeting • Develop 2 storm water awareness articles for monthly housing newsletter	• Distribute posters and flyers and document • Publish two articles in Sentinel • Attend one CSC meeting, distribute materials and document • Publish 2 articles in monthly housing newsletter	DPW-ENV; DPW-FHFH
	3.3 Outreach	• Provide display at Hood Howdy	• Provide educational display at	DPW-ENV

	events	event • Provide display at Recycle Day	two Hood Howdy events • Provide educational display with handouts at Recycle Day	
	3.4 Storm water website	• Review and update storm water website	• Website updated with most current information	DPW-ENV; DPW-BOID

4 MCM-2 Public Involvement/Participation

According to the TPDES General Permit No. TXR040000, Fort Hood must develop a public involvement and participation program that will allow the Fort Hood community to participate in the development and implementation of the storm water management program. At a minimum, Fort Hood must comply with all State and local public notice requirements when implementing this program. The following BMPs will be implemented to satisfy the requirement for this MCM.

4.1 MCM-2; BMP-1: Public Meetings

Fort Hood will hold public meetings that will allow the community to participate in the development and implementation of the SWMP. The SWMP will be available to the public for review and comment via a link in the Phantom Distro. Hard copies of the SWMP will also be available at a designated location that will be posted in the Sentinel. Fort Hood will conduct the following activities to implement BMP 4.1.

- Environmental Quality Control Committee (EQCC) meetings
- Community Service Council meetings
- Sustainability water team meetings
- Phantom Distro & Sentinel Article

4.2 MCM-2; BMP-2: Volunteer Projects

Fort Hood will develop volunteer projects that will involve the Fort Hood and surrounding communities. The DPW-ENV division and the DPW-FHFH division will work together to create volunteer efforts for the community. Fort Hood will also provide support materials for the volunteer activities to interested parties. The volunteer projects will allow the public to become involved in storm water awareness programs and will educate the public on the hazards of trash and other pollutants to the environment. To implement BMP 4.2, Fort Hood will conduct the following activities:

- Family Groups volunteer projects
- Boy Scouts volunteer projects

4.3 MCM -2; BMP-3: Installation Waste Disposal & Cleanup Programs

Fort Hood will develop new or expand existing opportunities to clean up the installation and better manage hazardous materials and other potential pollutants. To implement BMP 4.3, Fort Hood will conduct the following activities:

- Spring/Fall Cleanup
- Household Hazardous Waste Turn-In

4.4 MCM-2 Schedule

Fort Hood will use the schedule shown in Table 2 to implement the BMPs for MCM-2.

4.5 Recordkeeping and Evaluation Techniques

DPW-ENV will be responsible for tracking and recording all BMP implementation to meet the measurable goals for MCM-2. The measurable goals will be tracked by the DPW-ENV Storm Water Quality Specialist using an electronic database or other methods as appropriate. BMP effectiveness will be evaluated using the evaluation criteria described in Table 2. The BMP effectiveness will be recorded in the annual report.

Table 2.1 Fully Implemented BMPs for MCM-2

BMP	Measurable Goals	Evaluation Criteria	Responsible Party
4.3 Spring/Fall cleanup	• Conduct annual spring/fall cleanup activities for the installation	• Complete Fall/Spring cleanup activities and document	DPW-ENV; DPW-FHFH

Table 2.2 BMP Implementation Schedule for MCM-2

Target Date	BMP	Measurable Goals	Evaluation Criteria	Responsible Party
Year 1	4.1 Public Meetings	• Provide introduction to SWMP at an EQCC; • Conduct sustainability water team meetings	• Introduce the SWMP at EQCC and document • Conduct one sustainability team meeting and document	DPW-ENV
Year 2	4.1 Public Meetings	• Update the Garrison Commander about the status of the SWMP at the EQCC • Conduct sustainability water team meetings • Phantom Distro and Sentinel Article about SWMP	• Provide presentation at EQCC on status of SWMP and document • Conduct two sustainability water team meetings and document • Post article on Phantom Distro and in Sentinel; provide website for Public comments; update SWMP as necessary	DPW-ENV
	4.2 Volunteer Projects	• Investigate opportunities for volunteer participation in cleanup programs.	• Develop opportunities for volunteer participation in cleanup programs and distribute to Fort Hood community for review.	DPW-ENV; DPW-FHFH
	4.3 Installation Waste Disposal & Cleanup Programs	• Develop household hazardous waste turn-in	• Develop the household hazardous waste turn in program and document	DPW-ENV

Year 3	4.1 Public Meetings	• Update the Garrison Commander about the status of the SWMP at the EQCC • Conduct sustainability water team meetings	• Provide presentation at EQCC on status of SWMP and document • Conduct a sustainability water team meeting every quarter and document	DPW-ENV
	4.2 Volunteer Projects	• Develop Boy Scout volunteer projects • Develop family groups volunteer activities	• Develop volunteer activities for Boy Scouts in the community and document. • Develop volunteer activities for family groups in the community and document	DPW-ENV; DPW-FHFH
	4.3 Installation Waste Disposal & Cleanup Programs	• Conduct household hazardous waste turn-in	• Conduct household hazardous waste turn in and document materials received	DPW-ENV
Year 4	4.1 Public Meetings	• Update the Garrison Commander about the status of the SWMP at the EQCC • Conduct sustainability water team meetings	• Provide presentation at EQCC on status of SWMP and document • Conduct a sustainability water team meeting every quarter and document	DPW-ENV
	4.2 Volunteer Projects	• Conduct Boy Scout volunteer activities • Conduct family groups volunteer activities	• Conduct volunteer activities for Boy Scouts in the community and document • Conduct volunteer activities for family groups in the community and document	DPW-ENV; DPW-FHFH
	4.3 Installation Waste Disposal & Cleanup Programs	• Conduct household hazardous waste turn in	• Conduct household hazardous waste turn in and document materials received	DPW-ENV
Year 5	4.1 Public	• Update the Garrison Commander	• Provide presentation at EQCC	DPW-ENV

	Meetings	about the status of the SWMP at the EQCC • Conduct sustainability water team meetings • Phantom Distro and Sentinel Article about SWMP	on status of SWMP and document • Conduct a sustainability water team meeting every quarter and document • Post article on Phantom Distro and in Sentinel; provide website for Public comments; update SWMP as necessary	
	4.2 Volunteer Projects	• Conduct Boy Scout volunteer activities • Conduct family groups volunteer activities	• Conduct volunteer activities for Boy Scouts in the community and document • Conduct volunteer activities for family groups in the community and document	DPW-ENV; DPW-FHFH
	4.3 Installation Waste Disposal & Cleanup Programs	• Conduct household hazardous waste turn in	• Conduct household hazardous waste turn in and document materials received	DPW-ENV

5 MCM-3 Illicit Discharge, Detection, and Elimination

According to the TPDES General Permit No. TXR040000, Fort Hood must develop a program to detect and eliminate illicit discharges to the MS4. The SWMP must include the process that will be used to effectively prohibit illicit discharges and at a minimum must establish an ordinance or other regulatory mechanism that will prohibit illicit discharges. The SWMP must also include a map of the storm sewer system that lists the location of all outfalls, the names and locations of all waters of the U.S. that receive discharges from the outfalls, and any additional information needed by the permittee to implement its SWMP.

5.1 MCM-3; BMP-1: Regulatory Mechanism

Fort Hood regulation FH 200-1 addresses environmental rules and regulations for the installation. FH 200-1 is a regulatory mechanism for Soldiers and civilians on the installation and has been reviewed by the Judge Advocate General (JAG) and signed by the Garrison Commander. FH 200-1 will be updated to address illicit discharges to the environment and procedures that Soldiers and civilians must take to prevent storm water pollution.

5.2 MCM-3; BMP-2: Mapping of MS4

Fort Hood will map the MS4 and create a GIS database for all outfalls located on the Installation. The map will also include the names and locations of all natural drainage features including identified jurisdictional waters, wetlands, and other surface water bodies. Current GIS databases will be used to located outfalls and drainage features, as well as field surveys conducted by DPW employees or contractors. The GIS maps will be updated by DPW staff based upon database and field survey results.

5.3 MCM-3; BMP-3: Dry Weather Surveys

Fort Hood will conduct surveys of the MS4 during dry weather to look for illicit discharges. Fort Hood personnel will visually inspect major outfalls for the presence of pollutants, record any information that will be useful in determining the illicit discharge, trace the source of the dry weather flow, and address the problem to eliminate the discharge. The illicit discharge will be eliminated based upon good housekeeping checks and balances or structural correction. A database will be maintained for all illicit discharges that are identified and corrective actions taken to eliminate them.

5.4 MCM-3; BMP-4: Spill Response Program

Fort Hood currently responds to all spills that occur on the Installation including Petroleum Oil and Lubricant (POL) spills, hazmat spills, and sanitary sewer overflows. A spill response

program is already in place that provides for the containment of spilled materials and the clean up of affected areas. Reporting and recordkeeping is only an integral part of that existing program and will be periodically reviewed for effectiveness through the SWMP.

5.5 MCM-3; BMP-5: Evaluate Allowable Non-Storm Water Discharges

Fort Hood will allow the non-storm water discharges listed in Section 2.3 of this SWMP. According to the TXR040000 general permit, the non-storm water discharges listed in this SWMP do not need to be considered by the MS4 operator as an illicit discharge requiring elimination unless the operator of the MS4 or the executive director identifies the discharge as a significant source of pollutants. During routine inspections or illicit discharge, detection and elimination (IDDE) surveys, Fort Hood will document any listed allowable non-storm water discharges that are found to be contributing a significant amount of pollutants to the MS4.

5.6 MCM-3; BMP-6: Enviromental Compliance Assessment Team Routine Drive Through Checks

The Environmental Compliance Assessment Team (ECAT) conducts routine drive through (RDT) visits of motor pool facilities to inspect for illicit discharges from dry weather flows or improper good housekeeping practices. If illicit discharges are detected, the ECAT representative will contact the appropriate leadership to ensure the illicit discharge is eliminated and corrected. ECAT representatives will follow up with training for the activity to ensure appropriate procedures are in place to prevent future similar illicit discharges. In addition, the ECAT team conduct routine checks of common illegal dumping locations. If an illegal dump is located on Fort Hood, the Installation Game Wardens are contacted and appropriate procedures are taken to determine the responsible parties and eliminate future illegal dumping. If appropriate, legal actions will be taken against individuals responsible for the illegal dump site.

5.7 MCM-3; BMP-7: HAZMAT Disposal Opportunities

The Classification Unit (CU) is a permitted 90 day storage facility located on Fort Hood. The CU contains a household hazardous waste collection center (HHWCC). The HHWCC is a specially designed building with secondary containment flooring and explosion resistant construction. Materials brought to the HHWCC are separated accordingly, tracked, reissued if possible, and/or properly disposed of. In addition, the CU is a used oil collection center where residents, and civilian employees or contractors working on Fort Hood can dispose of used oil.

5.8 MCM-3; BMP-8: Recycle Programs

All military, contractor, and civilian personnel on Fort Hood are required to recycle under III Corps & Fort Hood Reg 200-1 and 420-6. The Recycle Program's mission is to reduce the amount of materials sent to the landfill, generate funds through the sale of materials, and support

environmental stewardship at Fort Hood. The recycle center recycles numerous materials such as but not limited to cardboard, light metal, used paper, plastics, and aluminum.

5.9 MCM-3; BMP-9: Used Fluids Collection

The bioremediation facility (Bio Site) is a petroleum recycling facility located on Fort Hood. The Bio Site uses vacuum trucks to capture petroleum based products that are used at industrial facilities and motor pools located throughout Fort Hood. The used product is sold to off-site vendors for recycled petroleum products.

5.10 MCM-3 Schedule

Fort Hood will use the schedule in Table 3 to implement the BMPs for MCM-3.

5.11 Recordkeeping and Evaluation Techniques

DPW-ENV will be responsible for tracking and recording all BMP implementation to meet the measurable goals for MCM-3. The measurable goals will be tracked by the DPW-ENV Storm Water Quality Specialist using an electronic database or other methods as appropriate. BMP effectiveness will be evaluated using the evaluation criteria described in Table 3. The BMP effectiveness will be recorded in the annual report.

Table 3.1 Fully Implemented BMPs for MCM-3

BMP	Measurable Goals	Evaluation Criteria	Responsible Party
5.4 Spill Response Program	• Continue spill response program and document spill information	• Respond to spills on the installation and record spill information	DPW-ENV; DPW-MNT
5.6 ECAT & Game Warden RDT Checks	• Continue to conduct RDT checks for illicit discharges in motorpool facilities and common illegal dumping locations	• RDTs completed and recorded	DPW-ENV
5.7 HAZMAT Disposal Opportunities	• Continue to operate and promote the use of the HHWCC	• HHWCC operable to Soldiers, civilians employees, and contractors	DPW-ENV
5.8 Recycle Programs	• Continue to operate the recycle yard and require recycling on Fort Hood; Promote recycling awareness	• Recycle program operable and recycling awareness promoted	DPW-ENV
5.9 Used Fluids Collection	• Continue to operate the Bio Site and collect used fluids from industrial facilities and motorpools located on Fort Hood.	• Bio Site operable and used fluids collected	DPW-ENV

Table 3.2 BMP Implementation Schedule for MCM-3

Target Date	BMP	Measurable Goals	Evaluation Criteria	Responsible Party
Year 1	5.5 Evaluate Allowable Non-Storm Water Discharges	• Record complaints and instances where non-storm water flows contained pollutants; Eliminate any allowable non-storm water flows in Section 2.3 of this SWMP that were deemed significant sources of pollutants; Include any changes to Section 2.3 of this SWMP in the annual report	• Document instances of significant pollution from allowable non-storm water sources.	DPW-ENV; DPW-MNT

Year 2	5.1 Regulatory Mechanism	• Review an update FH 200-1 for illicit discharges	• FH 200-1 updated and signed by Garrison Commander	DPW-ENV
	5.2 Mapping of MS4	• Map at least 50% of the MS4	• 50% of the MS4 mapped	DPW-ENV
	5.3 Dry Weather Surveys	• Develop IDDE program	• Inspection procedures complete and added to the SWMP	DPW-ENV, DPW-MNT
	5.5 Evaluate Allowable Non-Storm Water Discharges	• Record complaints and instances where non-storm water flows contained pollutants; Eliminate any allowable non-storm water flows in Section 2.3 of this SWMP that were deemed significant sources of pollutants; Include any changes to Section 2.3 of this SWMP in the annual report	• Document instances of significant pollution from allowable non-storm water sources.	DPW-ENV; DPW-MNT
Year 3	5.2 Mapping of MS4	• Map remainder of the MS4 drainage system	• MS4 mapping project complete and GIS database updated	DPW-ENV
	5.3 Dry Weather Surveys	• Implement IDDE program	• Initial inspection complete and work order submitted to eliminate illicit discharges	DPW-ENV
	5.5 Evaluate Allowable Non-Storm Water Discharges	• Record complaints and instances where non-storm water flows contained pollutants; Review dry weather survey reports of non-storm water flows that were deemed significant sources of pollutants; Include any changes to section 2.3 of this SWMP in the annual report.	• Document instances of significant pollution from allowable non-storm water sources.	DPW-ENV; DPW-MNT
Year 4	5.3 Dry Weather	• Revise and/or continue	• Complete projects from	DPW-ENV

	Surveys	implementation of IDDE program	previous year and submit work orders for newly identified illicit discharges	
	5.5 Evaluate Allowable Non-Storm Water Discharges	• Record complaints and instances where non-storm water flows contained pollutants; Review dry weather survey reports of non-storm water flows that were deemed significant sources of pollutants; Include any changes to section 2.3 of this SWMP in the annual report.	• Document instances of significant pollution from allowable non-storm water sources.	DPW-ENV; DPW-MNT
Year 5	5.1 Regulatory Mechanism	• Review and update FH 200-1 for illicit discharges	• FH 200-1 updated and signed by the Garrison Commander	DPW-ENV
	5.3 Dry Weather Surveys	• Revise and/or continue implementation of IDDE program	• Complete projects from previous year and submit work orders for newly identified illicit discharges	DPW-ENV
	5.5 Evaluate Allowable Non-Storm Water Discharges	• Record complaints and instances where non-storm water flows contained pollutants; Review dry weather survey reports of non-storm water flows that were deemed significant sources of pollutants; Include any changes to section 2.3 of this SWMP in the annual report.	• Document instances of significant pollution from allowable non-storm water sources.	DPW-ENV; DPW-MNT

6 MCM-4 Construction Site Storm Water Runoff Control

Fort Hood must develop, implement, and enforce a program to reduce pollutants in storm water runoff to the MS4 from construction activities covered by the construction general permit. The program must include the development and implementation of an ordinance or other regulatory mechanism to require erosion and sediment controls, as well as sanctions to ensure compliance with the program. Fort Hood must also develop procedures for site plan review to incorporate consideration of potential water quality impacts, receipt and consideration of information submitted by the public, and site inspection and enforcement of control measures.

6.1 MCM-4; BMP-1: Regulatory Mechanism

Fort Hood regulation FH 200-1 addresses construction storm water management on the installation. FH 200-1 will be updated to require all construction sites on Fort Hood to comply with the requirements of the TPDES Construction General Permit No. TXR150000. FH 200-1 will also require all construction sites to install erosion and sediment controls prior to any land disturbing activities and to comply with the Memorandum of Instruction (MOI) for the Construction Site Storm Water Inspection Program. The MOI establishes procedures for Fort Hood DPW personnel to conduct inspections of construction sites on Fort Hood and monitor compliance with storm water regulations. In addition, the MOI describes procedures for contractors to submit corrective actions for deficiencies found during inspections by returning a Reply by Endorsement (RBI) letter.

6.2 MCM-4; BMP-2: Construction Site Storm Water Inspection Program

Through the Fort Hood Construction Site Storm Water Inspection Program DPW-ENV personnel currently conduct routine inspections of all construction activities on Fort Hood that require coverage under the construction general permit. This BMP has been ongoing on Fort Hood since 2003 it is already fairly mature. Implementation will mainly involve continued implementation of the inspection program plus formal reviews every other year.

6.3 MCM-4; BMP-3: Project Review Board

Fort Hood currently holds project review board meetings for the design of most construction or renovation projects that occur on the installation. Plans and project scopes are submitted to the project review board in order to allow different organizations the opportunity to comment on projects and note any discrepancies. This process has been on-going for many years and will continue, allowing the submission of comments on erosion control and storm water issues.

6.4 MCM-4; BMP-4: SWPPP Review/Approval Process

The Fort Hood DPW-ENV division currently requires that every construction activity on Fort Hood that is covered under the construction general permit must submit a copy of their SWPPP to the DPW-ENV storm water quality specialist for review and comment. The SWPPP must be submitted with a signed Notice of Intent (NOI) or Construction Site Notice (CSN) at least two days prior to any land disturbance activity. The DPW-ENV storm water quality specialist will review each SWPPP and provide comments on deficiencies found or make suggestions on more appropriate erosion control BMPs. Over the next 5 years, DPW-ENV will develop a SWPPP review/approval process that will not allow a construction activity to complete any land disturbing activities until a SWPPP has been reviewed and approved by the DPW-ENV department. The construction activity will have to gain the signatures of the appropriate DPW-ENV personnel that review the SWPPP in order to obtain permission to start construction activities.

6.5 MCM-4; BMP-5: Construction Site Operator Compliance Course

Fort Hood will develop and implement a training program on the requirements of the construction general permit and how to prevent the discharge of pollutants from construction activities. The course will be developed to educate site operators, inspectors, general workers, and contracting officer representatives (CORs), and other DPW or USACE personnel. The training will cover topics such as the preparation and implementation of a SWPPP and how to choose, install, and maintain BMPs for erosion and sediment control.

6.6 MCM-4; BMP-6: Construction Site Storm Water Web Site

The DPW website contains information about each division within the organization and their mission on Fort Hood. The environmental division will prepare a construction site storm water website that educates the Fort Hood general public on construction site storm water awareness. The website will also provide forms and documents such as the TPDES Construction General Permit No. TXR150000, NOI, CSN, and any additional forms used to comply with the permit. In addition, the website will host links to educational websites such as the TCEQ, EPA, International Erosion Control Association (IECA), and other educational construction site storm water websites. The website will also provide a link for the general public to provide information about construction activities to Fort Hood.

6.7 MCM-4 Schedule

Fort Hood will use the schedule in Table 4 to implement the BMPs for MCM-4.

6.8 Recordkeeping and Evaluation Techniques

DPW-ENV will be responsible for tracking and recording all BMP implementation to meet the measurable goals for MCM-4. The measurable goals will be tracked by the DPW-ENV Storm Water Quality Specialist using an electronic database and other methods as appropriate. BMP effectiveness will be evaluated using the evaluation criteria stated in Table 4. The BMP effectiveness will be recorded in the annual report.

Table 4.1 Fully Implemented BMPs for MCM-4

BMP	Measurable Goals	Evaluation Criteria	Responsible Party
6.2 Construction Site Storm Water Inspection Program	• Inspect construction sites on Fort Hood as per the MOI	• Inspections performed at required intervals; Document and review performance of construction sites by inspection scores	DPW-ENV
6.3 Project Review Board	• Review and comment on projects issued to review board	• List number of projects reviewed and commented on	DPW-ENV
6.4 SWPPP Review/Approval Process	• Review and comment on SWPPPs issued to DPW-ENV	• List number of SWPPPs reviewed	DPW-ENV

Table 4.2 BMP Implementation Schedule for MCM-4

Target Date	BMP	Measurable Goals	Evaluation Criteria	Responsible Party
Year 2	6.1 Regulatory Mechanism	• Update FH 200-1 for construction sites to comply with the MOI	• FH 200-1 updated and signed by the Garrison Commander	DPW-ENV
	6.6 Construction Site Storm Water Website	• Update the existing Construction Site Storm Water Website with current information for the construction industry; Provide a link for receipt of information from the general public	• Website updated with current information and link for receipt of information	DPW-ENV
Year 3	6.5 Construction Site Erosion and Sediment Control Training	• Develop construction site operator compliance course • Draft training requirements for construction site personnel	Training course fully developed and ready for implementation	DPW-ENV
	6.6 Construction Site	• Continue to provide information	• Website updated with current	DPW-ENV

	Storm Water Website	on Construction Site Storm Water Website	information	
Year 4	6.5 Construction Site Erosion and Sediment Control Training	• Implement construction site operator compliance course	• Courses completed on a needed basis and records of the individuals trained documented	DPW-ENV
	6.6 Construction Site Storm Water Website	• Continue to provide information on Construction Site Storm Water Website	• Website updated with current information	DPW-ENV
Year 5	6.1 Regulatory Mechanism	• Update FH 200-1 and MOI to include training requirements for personnel	• FH 200-1 updated and signed by Garrison Commander • MOI updated and signed by DPW	DPW-ENV
	6.5 Construction Site Erosion and Sediment Control Training	• Implement construction site operator compliance course	• Courses completed on a needed basis and records of the individuals trained documented	DPW-ENV
	6.6 Construction Site Storm Water Website	Continue to provide information on Construction Site Storm Water Website	• Website updated with current information	DPW-ENV

7 MCM-5 Post-Construction Storm Water Management in New Development and Redevelopment

Fort Hood must develop, implement, and enforce a program to address storm water runoff from new development and redevelopment projects. The program must ensure that permanent, post construction controls will be in place as needed to prevent or minimize negative water quality impacts. At a minimum, Fort Hood must develop and implement strategies which include a combination of appropriate structural and/or non-structural BMPs appropriate for the community. Fort Hood must use an ordinance or other regulatory mechanism to address post-construction runoff from new development and redevelopment, and ensure adequate long-term operation and maintenance of BMPs. The operation and maintenance of these BMPs is addressed in Section 6.0.

7.1 MCM-5; BMP-1: Low Impact Development (LID) Program & Leadership in Energy and Environmental Design (LEED) Program

Fort Hood will develop and implement a LID program to provide both required and recommended strategies and BMPs to better manage post-construction storm water flows. Required elements of the LID program will be added to the Installation Design Guide (IDG).

The LEED program is the nationally accepted benchmark for the design, construction, and operation of high performance green buildings. The LEED program encourages the use of LID techniques, including storm water quality control design to achieve a sustainable construction design. LEED checklists for new construction projects will be used, in part, to document the use of permanent post-construction storm water controls.

7.2 MCM-5; BMP-2: Installation Design Guide

Fort Hood currently has an IDG that is used to aide engineers, contractors, and designers in the construction projects on Fort Hood. The IDG designates the minimum requirements that need to be met in order to construct projects on Fort Hood, and incorporates construction techniques such as LID, green buildings, and energy efficient construction designs. However, the IDG currently only encourages engineers and contractors to use LID techniques whenever possible, but does not make their use mandatory. The IDG will be updated to include mandatory design parameters for storm water drainage for all new development and redevelopment projects.

7.3 MCM-5; BMP-3: Regulatory Ordinance

Fort Hood regulation FH 200-1 addresses storm water pollution prevention for the installation. FH 200-1 will be updated to require all projects that disturb one or more acres of land to address permanent post-construction storm water controls. The regulation will require all new development and redevelopment projects to follow requirements in the IDG.

7.4 MCM-5; BMP-4: Structural Control Maintenance Program

Fort Hood will develop and implement a program to inspect and assess the structural storm water controls located throughout the installation. Maintenance activities will be conducted along inlets, ditches, pipes and channels for structural improvements when noted through visual inspections, work orders from units/activities, or citizen complaints. The maintenance activities will include removing floatables, sediment, and other pollutants from storm drains, and repairing structural damage of existing controls.

7.5 MCM-5 Schedule

Fort Hood will use the schedule in Table 5 to implement the BMPs for MCM-5.

7.6 Recordkeeping and Evaluation Techniques

DPW-ENV will be responsible for tracking and recording all BMP implementation to meet the measurable goals for MCM-5. The measurable goals will be tracked by the DPW-ENV Storm Water Quality Specialist using an electronic database and other methods as appropriate. BMP effectiveness will be evaluated using the evaluation criteria stated in Table 5. The BMP effectiveness will be recorded in the annual report.

Table 5. BMP Implementation Schedule for MCM-5

Target Date	BMP	Measurable Goals	Evaluation Criteria	Responsible Party
Year 1	7.4 Structural Control Maintenance Program	• Respond to complaints and work orders for structural control maintenance	• Complete work orders for structural maintenance of controls	DPW-ENV; DPW-MNT
Year 2	7.4 Structural Control Maintenance Program	• Develop and implement inspection program for structural control maintenance	• Inspection program developed and implemented	DPW-ENV; DPW-MNT
Year 3	7.1 LID & LEED	• Develop a written program that includes strategies and BMPs appropriate for Fort Hood	• LID Program requirements documented and approved by DPW	DPW-ENV; DPW-RPPD
	7.4 Structural Control Maintenance Program	• Implement a regularly scheduled program to maintain structural controls	• Schedules developed for structural control maintenance	DPW-ENV; DPW-MNT
Year 4	7.2 Installation Design Guide	• Update the IDG to incorporate requirements of the LID Program	• IDG updated and approved by the DPW	DPW-RPPD; DPW-ENV
	7.4 Structural Control Maintenance Program	• Continue regularly scheduled program to maintain structural controls	• Schedules completed for structural control maintenance	DPW-ENV; DPW-MNT
Year 5	7.3 Regulatory Ordinance	• Update FH 200-1 to mandate use of IDG for permanent post-construction storm water controls	• FH 200-1 updated and signed by Garrison Commander	DPW-ENV
	7.4 Structural Control Maintenance Program	• Continue regularly scheduled program to maintain structural controls	• Schedules completed for structural control maintenance	DPW-ENV; DPW-MNT

8 MCM-6 Pollution Prevention/Good Housekeeping for Municipal Operations

According to the TPDES General Permit No. TXR040000, Fort Hood must develop an operation and maintenance program that has the ultimate goal of preventing or reducing pollutant runoff from municipal operations. The SWMP must be developed to include pollution prevention/good housekeeping measures for municipal operations, the development of a municipal employee training program, a storm water structural control maintenance program, a waste disposal program for wastes removed from the MS4, and a list of all municipal operations that are subject to TPDES storm water regulations.

8.1 MCM-6; BMP-1: Street Sweeping Maintenance Program

Fort Hood currently has one sweeper and operator to conduct periodic sweeping of the streets located in the main cantonment. Fort Hood will review the current street sweeping program and evaluate its effectiveness. If needed, additional funds or resources will be requested and sweeping schedules will be revised.

8.2 MCM-6; BMP-2: Environmental Compliance Assessment Team Inspections

The Fort Hood Environmental Compliance Assessment Team (ECAT) conducts semi-annual compliance assessments of all activities located on Fort Hood in all areas related to environmental management/compliance. These assessments ensure that good housekeeping measures are conducted during day-to-day operations in order to comply with all environmental laws and regulations. Each assessment results in a separate written report that is composed of a memorandum containing an overview of findings and recommendations. Assessment reports are comprehensive, but concise documents written to define problems or recognize commendable efforts. Each activity is required to Reply by Endorsement (RBI) within 30 days if any discrepancies are found. The RBI must state the root cause of the discrepancy, corrective actions planned and completed, and preventive actions taken to prevent future discrepancies.

8.3 MCM-6; BMP-3: Municipal Operations Training

Fort Hood will develop a storm water pollution prevention educate municipal employees on how they can help prevent the discharge of pollutants in storm water runoff. After employees requiring this training are identified, course materials will be developed. Records will be maintained to show that the training was provided to each municipal employee that needed it on an annual basis.

8.4 MCM-6; BMP-4: Industrial Activities Training

Fort Hood currently conducts annual storm water training for employees of all permitted industrial storm water sites on Fort Hood. The training educates all military, contractor, and civilian personnel on good housekeeping techniques and activities that can help prevent storm water pollution in the industrial workplace. Some of the topics the training covers include but are not limited to standard operating procedures, regular maintenance and upkeep of work areas, and spill response procedures.

8.5 MCM-6; BMP-5: Classification Unit

The Classification Unit (CU) is a permitted 90 day storage facility located on Fort Hood. The CU currently processes used products, hazardous materials/wastes, and used containers. The containers are cleaned, bailed, and recycled. The CU also contains a household hazardous waste collection center (HHWCC). The HHWCC is a specially designed building with secondary containment flooring and explosion resistant construction. Materials brought to the HHWCC are separated accordingly, tracked, reissued if possible, and/or properly disposed of. All military units and industrial activities are required to use the CU under III Corps & Fort Hood Reg 200-1.

8.6 MCM-6; BMP-6: Recycle Program

All military, contractor, and civilian personnel on Fort Hood are required to recycle under III Corps & Fort Hood Reg 200-1 and 420-6. The Recycle Program's mission is to reduce the amount of materials sent to the landfill, generate funds through the sale of materials, and support environmental stewardship at Fort Hood. The recycle center recycles numerous materials such as but not limited to cardboard, light metal, used paper, plastics, and aluminum.

8.7 MCM-6; BMP-7: Bioremediation Facility

The bioremediation facility (Bio Site) is a petroleum recycling facility and a petroleum contaminated soil composting facility located on Fort Hood. The Bio Site uses vacuum trucks to capture petroleum based products that are used at industrial facilities and motor pools located throughout Fort Hood. The used product is sold to off-site vendors for recycled petroleum products. The Bio Site also composts petroleum contaminated soil by placing the soil in a controlled environment that allows the biological decomposition of organic materials through microbial activity which occurs in the presence of free oxygen. All military units and industrial activities are required to use the Bio Site under III Corps & Fort Hood Reg 200-1.

8.8 MCM-6; BMP-8: Structural Control Maintenance Program

Fort Hood will develop and implement a program to inspect and assess the structural storm water controls located throughout the installation. Maintenance activities will be conducted along

inlets, ditches, pipes and channels for structural improvements when noted through visual inspections, work orders from units/activities, or citizen complaints. The maintenance activities will include removing floatables, sediment, and other pollutants from storm drains, and repairing structural damage of existing controls.

8.9 MCM-6; BMP-9: Inventory of Municipal Operations and Industrial Activities

Fort Hood will inventory all municipal operations and industrial activities located on the installation. The inventory will be tracked in a list format and will be updated on a regular basis to incorporate all new municipal and industrial activities that are developed on Fort Hood. The industrial activities that generate storm water on Fort Hood are listed in Appendix A. The municipal operations that are subject to the operation, maintenance, or training program of this MCM are listed in Appendix B.

8.10 MCM-6; BMP-10: Disposal of Waste Removed from the MS4

All wastes including accumulated soil, sediment, and floatables removed from the MS4 will be disposed of appropriately. All solid, non-organic waste will be separated and disposed of in an approved refuse container. All refuse will be gathered by Inland Service Corporation, Inc., and taken to the Fort Hood landfill which is classified as a Type I landfill for the disposal of municipal solid wastes. All dredged spoils, accumulated sediments, and organic floatables will be properly disposed of or reused for fill materials on a case by case basis. The accumulated sediment will be characterized according to Regulatory Guidance RG-69 from the TCEQ. Based upon characterization results, Fort Hood will determine whether the accumulated soil can be reused, disposed of, or taken to the Bio Site for composting.

8.11 MCM-6 Schedule

Fort Hood will use the schedule in Table 6 to implement the BMPs for MCM-6.

8.12 Recordkeeping and Evaluation Techniques

DPW-ENV will be responsible for tracking and recording all BMP implementation to meet the measurable goals for MCM-6. The measurable goals will be tracked by the DPW-ENV Storm Water Quality Specialist using an electronic database and other methods as appropriate. BMP effectiveness will be evaluated using the evaluation criteria stated in Table 6. The BMP effectiveness will be recorded in the annual report.

Table 6.1 Fully Implemented BMPs for MCM-6

BMP	Measurable Goals	Evaluation Criteria	Responsible Party
8.2 ECAT Inspections	• Continue to conduct ECAT inspections of all units/activities; Review results of inspections during sustainability meetings; Update procedures as necessary	ECAT inspections conducted on all units/activities	DPW-ENV
8.4 Industrial Activities Training	• Continue to implement annual industrial storm water training; Review training course and update as necessary.	• Industrial storm water training completed; process reviewed and updated as needed	DPW-ENV
8.5 Classification Unit	• Continue to operate and require the use of the CU; Promote the use of the HHWCC	• CU operable to Soldiers and industrial operations and HHWCC promoted	DPW-ENV
8.6 Recycle Program	• Continue to operate the recycle yard and require recycling on Fort Hood; Promote recycling awareness	• Recycle program operable and recycling awareness promoted	DPW-ENV
8.7 Bioremediation Facility	• Continue to operate and require the use of the Bio Site; Promote the use of the Bio Site	• Bio Site operable and promoted	DPW-ENV

Table 6.2 BMP Implementation Schedule for MCM-6

Target Date	BMP	Measurable Goals	Evaluation Criteria	Responsible Party
Year 1	8.8 Structural Control Maintenance Program	• Respond to complaints and work orders for structural control maintenance	• Complete work orders for structural maintenance of controls	DPW-ENV; DPW-MNT
	8.9 Inventory of Municipal Operations/Industrial Facilities	• Update inventory of all municipal operations and industrial facilities on Fort Hood	• Complete inventory and update	DPW-ENV
Year 2	8.1 Street Sweeping Maintenance Program	• Complete current street sweeping program; Survey the effectiveness of the street	• Current street sweeping program conducted, Street sweeping program surveyed,	DPW-MNT; DPW-ENV

		sweeping program and identify areas for improvement	goals in place for improvement	
	8.3 Municipal Operations Training	• Identify resources needed for program and personnel for training; Begin development of training program	• Resources and personnel identified; Development of training program started	DPW-ENV
	8.8 Structural Control Maintenance Program	• Develop and implement inspection program for structural control maintenance	• Inspection program developed and implemented	DPW-ENV; DPW-MNT
	8.9 Inventory of Municipal Operations/Industrial Facilities	• Update inventory of all municipal operations and industrial facilities on Fort Hood	• Complete inventory and update	DPW-ENV
	8.10 Disposal of Waste Removed from the MS4	• Develop an SOP for disposing of wastes removed from storm water structural controls	• Draft SOP developed and review process started	DPW-ENV
Year 3	8.1 Street Sweeping Maintenance Program	• Request funding for additional resources as necessary; Develop programmatic routes and schedules for street sweeping program	• Schedules and routes established	DPW-MNT; DPW-ENV
	8.3 Municipal Operations Training	• Continue development of training program; establish training schedule; conduct first training session	• First training session completed	DPW-ENV
	8.8 Structural Control Maintenance Program	• Implement a regularly scheduled program to maintain structural controls	• Schedules developed for structural control maintenance	DPW-ENV; DPW-MNT
	8.9 Inventory of Municipal Operations/Industrial Facilities	• Update inventory of all municipal operations and industrial facilities on Fort Hood	• Complete inventory and update	DPW-ENV
	8.10 Disposal of	• Implement SOP for disposing of	• Complete review process;	DPW-ENV

	Waste Removed from the MS4	wastes from structural storm water controls	SOP signed and implemented	
Year 4	8.1 Street Sweeping Maintenance Program	• Implement additional routes and schedules and monitor the effectiveness of the program	• Additional routes and schedules implemented	DPW-MNT; DPW-ENV
	8.3 Municipal Operations Training	• Implement semi-annual training schedule; Survey the effectiveness of the training course	• 2 training classes conducted; Class survey conducted after class	DPW-ENV
	8.8 Structural Control Maintenance Program	• Continue regularly scheduled program to maintain structural controls	• Schedules completed for structural control maintenance	DPW-ENV; DPW-MNT
	8.9 Inventory of Municipal Operations/Industrial Facilities	• Update inventory of all municipal operations and industrial facilities on Fort Hood	• Complete inventory and update	DPW-ENV
	8.10 Disposal of Waste Removed from the MS4	• Implementation complete; Review waste disposal process for effectiveness	• Process reviewed and updated as needed	DPW-ENV
Year 5	8.1 Street Sweeping Maintenance Program	• Monitor the effectiveness of the program and update as necessary	• Program reviewed and updated if needed	DPW-MNT; DPW-ENV
	8.3 Municipal Operations Training	• Continue to implement semi-annual training schedule; Review class survey and update class as necessary	• 2 training classes conducted; Course survey reviewed and class updated if needed	DPW-ENV
	8.8 Structural Control Maintenance Program	• Continue regularly scheduled program to maintain structural controls	• Schedules completed for structural control maintenance	DPW-ENV; DPW-MNT
	8.9 Inventory of Municipal Operations/Industrial Facilities	• Update inventory of all municipal operations and industrial facilities on Fort Hood	• Complete inventory and update	DPW-ENV

APPENDIX A

FORT HOOD INDUSTRIAL ACTIVITIES

Fort Hood Activities that May Generate Industrial Storm Water, September 2008

Sector(s)		SIC Code(s)		Location	Activity	Bldg
L. Landfills, Land Application Sites, and Open Dumps		5093		South Fort Hood	IMMU	None
J. Mineral Mining and Dressing		1499		West Range Road and Cowhouse Creek	DPW Soil Mining Pit	None
K. Hazardous Waste Storage	N. Scrap and Waste Recycling Sites	HZ	5093	South Fort Hood	Classification Unit	1349
N. Scrap and Waste Recycling		5093		South Fort Hood	DRMO	4281
N. Scrap and Waste Recycling		5093		South Fort Hood	Recycle Center	4621
N. Scrap and Waste Recycling		5093		South Fort Hood	Fluid Recycling Center	1948
N. Scrap and Waste Recycling		5093		South Fort Hood	Solvent Recycling Unit	1946
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Aircraft Maintenance	707
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Aircraft Maintenance	708
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Aircraft Maintenance	6940
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Motor Pool	6950
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Motor Pool	6951

Sector(s)		SIC Code(s)		Location	Activity	Bldg
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Motor Pool	6952
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Motor Pool	6953
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Aircraft Engine Repair	6970
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Aircraft Engine Repair	6972
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Aircraft Maintenance	6975
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Aircraft Maintenance	6978
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Aircraft Maintenance	7007
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Aircraft Maintenance	7012
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Paint Booth	7013
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Aircraft Maintenance	7021
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Aircraft Maintenance	7022
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Aircraft Maintenance	7027
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Motor Pool	7053
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Rapid Refuel Point	7072

Sector(s)		SIC Code(s)		Location	Activity	Bldg
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Motor Pool	7080
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Motor Pool	7082
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Motor Pool	7084
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Motor Pool	7086
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Motor Pool	7088
S. Maintenance Areas at Air Transport Sites		4581		HAAF	Motor Pool	7090
L. Landfills, Land Application Sites, and Open Dumps		LF		South Fort Hood	Active Landfill	56133
S. Maintenance Areas at Air Transport Sites		4581		RGAAF	Motor Pool	90023
S. Maintenance Areas at Air Transport Sites		4581		RGAAF	Aircraft Maintenance	90033
S. Maintenance Areas at Air Transport Sites		4581		RGAAF	Aircraft Maintenance	90051
S. Maintenance Areas at Air Transport Sites		4581		RGAAF	Motor Pool	90052
S. Maintenance Areas at Air Transport Sites		4581		RGAAF	Aircraft Maintenance	90094
S. Maintenance Areas at Air Transport Sites		4581		RGAAF	Aircraft Maintenance	90098

Sector(s)		SIC Code(s)		Location	Activity	Bldg
S. Maintenance Areas at Air Transport Sites		4581		RGAAF	Motor Pool	90135
S. Maintenance Areas at Air Transport Sites		4581		RGAAF	South Ramp Tank Farm	90201
S. Maintenance Areas at Air Transport Sites		4581		RGAAF	Motor Pool	91037
S. Maintenance Areas at Air Transport Sites		4581		RGAAF	Rapid Refuel Point	90104
S. Maintenance Areas at Air Transport Sites		4581		RGAAF	Motor Pool	90141
Q. Water Transportation		4493		BLORA	BLORA Maintenance Shop	20118
AB. Transportation Equipment, Industrial or Commercial Machinery Manufacturing Facilities		3511, 3519, 3795		DOL	DOL Maintenance Complex	88037
P. Land Transportation and Warehousing		4011		Rail Head	Rail Head Maintenance Shop	89260
P. Land Transportation and Warehousing		5171		DOL	Bulk Fuel Storage	88008
C. Agricultural Chemicals		2879		Golf Course	Golf Course Maintenance	52386

APPENDIX B

FORT HOOD MUNICIPAL OPERATIONS

Municipal Operations that are Subject to Operation, Maintenance, or Training

Department	Location	Activity	Bldg
Classification Unit (CU)	CU-Yard	Hazardous Material Handling and Storage	1348
Recycle Center	72nd and Railhead	Recycle Metal, Paper, Plastic, etc.	4626
Bio Site	37th and North Avenue	Recycling of fluids, solvents, and POLs	1953
Custodial Services	78th and Engineer Dr.	Manages all custodial activities on Fort Hood	4612-A
Backflow Devices	78th and Engineer Dr.	Manages all activities dealing with backflow prevention devices.	4612-A
Landfill Services	78th and Engineer Dr. and 77th and Warehouse Ave.	Manages all activities dealing with the landfill on Fort Hood.	4612-A & 4219
HVAC Services	78th and Engineer Dr.	Manages all HVAC activities on Fort Hood	4612-A
Washer and Dryer Services	78th and Engineer Dr.	Manages all washer and dryer units located on Fort Hood.	4612-A
Pest Control Services	78th and Engineer Dr. and Rod and Gun Club Loop	Manages all pest control activities on Fort Hood.	4612-A & 1939
Chemical Latrine Services	78th and Engineer Dr.	Manages all services involved with chemical latrines.	4612-A
Ground Maintenance and Auto Doors Services	78th and Engineer Dr.	Manages all ground maintenance activities and Auto Door services on Fort Hood.	4612-A

Department	Location	Activity	Bldg
General Maintenance Division	Various maintenance shops throughout Fort Hood	Conducts all general maintenance activities on Fort Hood.	4213, 4209, 7035, 94030, 25030
Electrical Maintenance Division	Santa Fe Ave., west of 72nd	Conducts all electrical maintenance activities.	4490
Roads and Grounds Division	Warehouse Ave. – DPW-Motor pool	Conducts all roads and grounds maintenance on Fort Hood	4489
Utility System Maintenance	77th street between Engineer Dr. and Warehouse Ave.	Conducts all maintenance of utility systems on Fort Hood.	4209
Fabrication Shop	77th street between Engineer Dr. and Warehouse Ave.	Fabricates projects made from wood.	4216
Sign Shop	77th street between Engineer Dr. and Warehouse Ave	Fabricates signs for roads, buildings, etc.	4207
Sheet Metal Shop	77th street between Engineer Dr. and Warehouse Ave	Fabricates projects made from sheet metal.	4208
Transportation Motor Pool	56th and North Ave	Conducts maintenance of fleet vehicles and buses	25029
Material Stockpile Storage Yard	South Range Rd. and West Range Rd.	Houses stored materials such as used asphalt, sand, topsoil, road base, etc.	N/A
Sewage Dump Station	72nd and Railhead Dr.	Dump station for sewage pump trucks	4667
FHFH/Actus Lend Lease Maintenance Yard	72nd and Warehouse Ave.	Conducts Maintenance activities for all residential housing units on Fort Hood	4318

Department	Location	Activity	Bldg
Fort Hood Landfill	Clarke Rd. and Turkey Run Rd.	Daily dumping of solid municipal wastes	56133
Golf Course	Clear Creek Rd. and Battalion Ave.	Conducts mowing, maintenance of lawn mowers, applies fertilizers to greens	52386
DMWR Swimming Pools	Various swimming pools throughout Fort Hood	Maintenance of swimming pools using chemicals, etc.	137, 192, 5774, 1676, 2476, 2237, 52930, 91072