



**DEPARTMENT OF THE ARMY**  
US ARMY INSTALLATION MANAGEMENT COMMAND  
HEADQUARTERS, US ARMY GARRISON, FORT STEWART / HUNTER ARMY AIRFIELD  
954 WILLIAM H. WILSON AVENUE  
FORT STEWART, GEORGIA 31314

REPLY TO  
ATTENTION OF

DEC 11 2009

Office of the Garrison Commander

CERTIFIED MAIL

Ms. Lisa A. Perrett  
Georgia Environmental Protection Division  
Watershed Protection Branch  
NonPoint Source Program / Stormwater Unit  
4220 International Parkway, Suite 101  
Atlanta, Georgia 30354

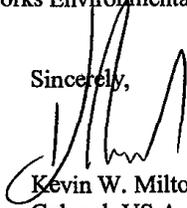
Dear Ms. Perrett:

Reference Georgia Environmental Protection Division comments dated September 11, 2009, received September 21, 2009, on the previously submitted (June 26, 2009) Fort Stewart and Hunter Army Airfield Notices of Intent for coverage under the General National Pollutant Discharge Elimination System (NPDES) Stormwater Permit No. GAG480000 (Authorization to Discharge under the NPDES; Stormwater Discharges Associated with Small Municipal Separate Storm Sewer Systems at Military Facilities). The Installation provides the enclosed Phase II Municipal Separate Storm Sewer Systems (MS4) Notices of Intent for Fort Stewart and Hunter Army Airfield revised in accordance with comments provided in your letter dated September 11, 2009.

I certify under penalty of law that these documents 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 that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

If additional information is required, please contact Ms. Tressa Rutland, Mr. Brent Rabon or Mr. Russell Moncrief, Directorate of Public Works Environmental Division, at (912) 767-2010.

Sincerely,



Kevin W. Milton  
Colonel, US Army  
Commanding

Enclosures



DEPARTMENT OF THE ARMY  
US ARMY INSTALLATION MANAGEMENT COMMAND  
HEADQUARTERS, US ARMY GARRISON, FORT STEWART / HUNTER ARMY AIRFIELD  
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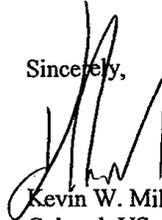
Ms. Lisa A. Perrett  
Georgia Environmental Protection Division  
Watershed Protection Branch  
NonPoint Source Program / Stormwater Unit  
4220 International Parkway, Suite 101  
Atlanta, Georgia 30354

Dear Ms. Perrett:

Reference Georgia Environmental Protection Division (GA EPD) comments dated September 11, 2009, received September 21, 2009, on the previously submitted (June 26, 2009) Fort Stewart and Hunter Army Airfield Notices of Intent for coverage under the General National Pollutant Discharge Elimination System (NPDES) Stormwater Permit No. GAG480000 (Authorization to Discharge under the NPDES; Stormwater Discharges Associated with Small Municipal Separate Storm Sewer Systems at Military Facilities). Fort Stewart / Hunter Army Airfield provides the enclosed written designation of duly authorized representative in response to General Comment No. 1 in your letter dated September 11, 2009.

If additional information is required, please contact Ms. Tressa Rutland, Mr. Brent Rabon or Mr. Russell Moncrief, Directorate of Public Works Environmental Division, at (912) 767-2010.

Sincerely,



Kevin W. Milton  
Colonel, US Army  
Commanding

Enclosure

**DESIGNATION OF DULY AUTHORIZED REPRESENTATIVE**

General National Pollutant Discharge Elimination System (NPDES) Stormwater Permit No. GAG480000 (Authorization to Discharge under the NPDES; Stormwater Discharges Associated with Small Municipal Separate Storm Sewer Systems at Military Facilities) contains Condition IV.L.1 (Signatory Requirements) as follows.

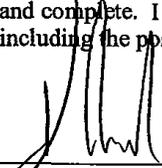
All information submitted to Georgia Environmental Protection Division (EPD), or that this permit requires the permittee to maintain, shall be signed by either a principal executive officer of the Federal Agency, a senior executive officer having responsibility for the overall operation of a unit of the Federal Agency, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

- a. The authorization is made in writing by the principal executive officer or senior executive officer described above and submitted to EPD.
- b. The authorization specifies either an individual or a position having responsibility for the overall operation of the facility's Stormwater Management Plan such as the position of manager, operator, superintendent, or position of equivalent responsibility.
- c. If an authorization is no longer accurate because of a different individual or position having been authorized, then a new authorization must be submitted to EPD prior to or together with any report, information, or application signed by the authorized representative.

The following Fort Stewart / Hunter Army Airfield representatives are duly authorized in accordance with Condition IV.L.1 of NPDES General Permit No. GAG 480000.

- Directorate of Public Works (DPW) – Director
- DPW Environmental Division (Env. Div.) – Chief
- DPW Env. Div. Prevention and Compliance Branch – Chief

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 that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

  
\_\_\_\_\_  
Kevin W. Milton  
Colonel, U.S. Army  
Commanding

8 DEC 08  
Date

**STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

**GEORGIA NOTICE OF INTENT (GaNOI)**

General NPDES Permit No. GAG480000 for  
Small Municipal Separate Storm Sewer Systems (MS4)  
At Military Facilities

**I. General Information**

A. Name of small MS4: United States Army Garrison Hunter Army Airfield

B. Ownership Status

1. Check the military branch having ownership of the MS4:

- a.  Air Force
- b.  Army
- c.  Marine
- d.  Georgia National Guard
- e.  Navy

2. If the operator of the MS4 is different from the owner, please provide the name of the operator: Directorate of Public Works

C. County where MS4 is located: Chatham

D. Name of responsible official: Directorate of Public Works  
Title: DPW Environmental Division, Prevention and Compliance Branch  
Mailing Address: 1550 Frank Cochran Drive, Building 1137  
City: Fort Stewart State: GA Zip Code: 31314-4928  
Telephone Number: (912) 767-2010

E. Designated stormwater management program contact:  
Name: Russell T. Moncrief  
Title: Stormwater Program Manager  
Mailing Address: Directorate of Public Works [DPW] Environmental Division, Prevention and Compliance Branch, 1550 Frank Cochran Drive, Building 1137  
City: Fort Stewart State: GA Zip Code: 31314-4928  
Telephone Number: (912) 767-2010/0271  
Email Address: Russell.Moncrief@us.army.mil

**II. Sharing Responsibility**

- A. Has another entity agreed to implement a control measure on your behalf?  
Yes \_\_\_ No X (If no, skip to Part III).

**III. Base Realignment and Closure (BRAC)**

- A. Is your facility scheduled for closure under the BRAC action?  
Yes \_\_\_ No X (If no, skip to Part IV)
- B. If your facility is scheduled for closure, please provide the schedule, including a list of any stormwater activities that will cease prior to base closure, the date(s) for cessation of these activities, and the date by which final closure of the military facility will occur: N/A

**IV. Known or Suspected Water Quality Problems**

- A. The name(s) of the receiving waters to which your MS4 discharges (attach a separate list if necessary):
1. Lamar Canal
  2. Harmon Canal
  3. Casey Canal (upper name for Hayners Creek)
  4. Forest River (Little Ogeechee River)
  5. Vernon River
- B. Indicate any receiving water stream segments to which your MS4 discharges, which are included on the latest 303(d) list (attach a separate list of impaired stream segments if necessary):
1. Hayners Creek on 303d list of streams (Fish Consumption, Fecal, and Dissolved Oxygen) from Montgomery Crossroad to Vernon River.
  2. Little Ogeechee River on 303d list of streams (Fecal and Dissolved Oxygen) from Little Ogeechee Pond to below US Hwy. 17 near Burroughs.
  3. Casey Canal on 303d list of streams (Fish Consumption, Fecal, and Dissolved Oxygen) from Head of Canal to Montgomery Crossroad, Savannah.
- C. Indicate any stream segments to which your MS4 discharges which have a finalized Total Maximum Daily Load (TMDL) (attach a separate list of the stream segments and TMDLs if necessary):

1. Same as "B" above.
- D. For those stream segments with a TMDL, indicate if you are participating in an approved TMDL Implementation Plan or have BMPs in place to address the pollutant(s) of concern:

**Non-Structural BMPs:**

1. Annual TMDL Sampling performed since CY2006 of receiving waters for listed TMDLs where Industrial Activities discharge.
2. Weekly construction site Erosion & Sedimentation Inspections performed, documenting compliance with Erosion & Sedimentation Pollution Control Plans and NPDES permitting for Construction Activities.

**Structural BMPs:**

1. Automatic Stormwater Samplers collect samples from major receiving channels of the collection system for each rain event, recording rainfall and stream levels. Samples are visually analyzed for color, odor, turbidity, floating solids, settled solids suspended solids, foam and oil sheen. Photo documentation of these samples and visual analysis are placed in the Installation Master Stormwater Pollution Prevention Plan.
2. The Georgia Stormwater Manual & Coastal Stormwater Supplement are utilized for Construction Designs/Projects. Project sites are required to install structural BMPs that are applicable for each site, such as retention/detention basins, bio-retention cells, infiltration ditches, vegetated swales, etc...for compliance with the Pre/Post NPDES permitting requirements.
3. Implementation of Low Impact Development Pilot Projects which demonstrates LID techniques to be utilized, for meeting NPDES Permitting requirements, of water quality for stormwater runoff.

**V. Industrial Activities**

- A. Are any industrial activities requiring coverage under the Georgia NPDES General Permit No. GAR000000 for Storm Water Discharges Associated with Industrial Activities located within your facility?  
Yes X No \_\_\_\_ (If No, Skip to Part VI)
- B. If yes, please list the industrial activities requiring coverage and the corresponding SIC Code: 0811, 0851, 1541, 1542, 2411, 2711, 4011,

4013, 4119, 4214, 4581, 5093, 5171, 4941, 4952, 4853, 4939, 4959,  
7623, 7692, and 7699.

**VI. Minimum Control Measures**

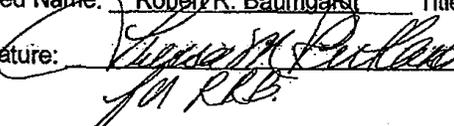
The NOI must include at least two BMPs for each of the six minimum control measures:

- A. Public Education and Outreach
- B. Public Involvement/Participation
- C. Illicit Discharge Detection and Elimination
- D. Construction Site Stormwater Runoff Control
- E. Post-Construction Stormwater Management in New Development and Redevelopment
- F. Pollution Prevention/Good Housekeeping

**VII. Certification Statement**

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 gathered and evaluated the information submitted. Based upon 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 that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed Name: Robert R. Baumgarst Title: Director, Public Works

Signature:  Date: 12/17/09

Version 11/08

## Appendix A

### Public Education and Outreach on Stormwater Impacts

NPDES Permit Part IV.B.1 Requirement: You must implement a public education program to distribute educational materials to the base community or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the base community can take to reduce pollutants in storm water runoff.

#### **A. Best Management Practice (BMP) #1**

1. Target audience\*: Soldiers, Tenant Organizations, and Civilian working community.
2. Description of BMP: Hunter Army Airfield has implemented an Environmental Compliance Officer/Environmental Compliance Non-Commissioned Officer (ECO/ECNCO) training course for educating Military Soldiers and Civilian Employees at motorpools and other activity areas. The training is a collaborative effort among the Resource Conservation and recovery Act (RCRA), Stormwater, and Water and Wastewater Programs of EPCB. Training is provided onsite by the EPCB RCRA team and makes use of the train-the-trainer concept. Courses are scheduled 5 times per year and cover the following subjects: good housekeeping BMPs, stormwater compliance, hazardous material/waste handling and storage, and erosion/sedimentation control.
3. Measurable Goal(s): Provide ECO/ECNCO course minimum twice per year. Maintain copies of the ECO/ECNCO training attendance rosters. Provide total number of attendees annually.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): Immediately
  - c. Frequency of actions (if applicable): Course scheduled 5 times a year; total number of attendees provided in annual report
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: DPW Environmental Prevention & Compliance Branch-RCRA Section Leader-instructors, Stormwater Program Manager, and site personnel.

\* For a military facility, the target audience shall be considered to be both the resident population and employee population within the fence line of the facility.

**B. BMP #2**

1. Target audience: Soldiers, Family Members, Tenant Organizations, Civilian working community, and surrounding local communities.
2. Description of BMP: All Hunter Army Airfield Environmental Divisions Programs and Branches are involved with outreach to students and other individuals in the community during Earth Day, and other local events. Approximately 541 students at schools and 900 individuals at Earth Day Events are impacted on an annual basis. EPCB participates in the surrounding communities Earth Day celebrations, where school age children and the public are educated on stormwater and environmental practices. At these events, EPCB sets up a booth, where environmental-oriented book stickers, refrigerator magnets, posters, brochures, and flyers related to stormwater and illicit discharges are handed out to school children, and storm drain model displays and portable samplers are demonstrated. All Fort Stewart Environmental Divisions Programs and Branches are involved with outreach to students and others in the community during Earth Day, and other local events.
3. Measurable Goal(s): Participate in one (1) local community event each year.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): Immediately
  - c. Frequency of actions (if applicable): At least once annually
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager, Stormwater and Public Relations personnel.

**C. BMP #3**

1. Target audience: Soldiers, Family Members, Tenant Organizations, Civilian working community, and surrounding local communities.
2. Description of BMP: Dissemination of informational posters, literature, and brochures. Informational posters and brochures have been created regarding stormwater and illicit discharges, which are posted in strategic locations for visibility by EPCB to educate and outreach to community areas such as motorpools, recreational areas, the library, the Army and Air Force Exchange Service (AAFES) - Post Exchange (PX), Auto Care Center, and other shopping areas. Poster topics include recycling, accepted pet waste disposal methods, "fat-free" sewers, and the proper disposal of wastes from maintenance and shop rags.
3. Measurable Goal(s): Strategically place 10 stormwater posters and photo document with date/time stamp annually in aforementioned appropriate areas. Distribute 200 ea brochures and literature of stormwater/illicit discharge information in public forums annually.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): Immediately
  - c. Frequency of actions (if applicable): one time annually
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager and stormwater personnel.

**D. BMP #4**

1. Target audience: Soldiers, Tenant Organizations, and Civilian working community, and Regional Stakeholders.
2. Description of BMP: An Environmental Library is maintained at the EPCB office in Building 1137. The Environmental Library contains relative documents (permits, plans, policies, technical guidance, project summary reports, stormwater maps, and sampling data) regarding all aspects of the Stormwater Program at Fort Stewart and Hunter Army Airfield. EPCB personnel are responsible for keeping the library materials up-to-date with the most current documentation. The Environmental Library serves as a central environmental repository to educate the community on all aspects of the Stormwater Program and projects at Fort Stewart and Hunter Army Airfield.
3. Measurable Goal(s): Review and update stormwater materials in the Environmental Library annually.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): Immediately
  - c. Frequency of actions (if applicable): On-going review update at least once annually
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager

**E. BMP #5**

1. Target audience: Regional community and other environmental policy groups
2. Description of BMP: EPCB personnel also participate in the Metropolitan Planning Commission and other regional stakeholder meetings on a regular basis as part of outreach and coordination with the local community. These meetings enable EPCB to work with local water-quality professionals and other stakeholders in looking at regional water concerns and watershed planning.
3. Measurable Goal(s): Participate in one (1) County Metropolitan Planning Commission Meeting and/or other local/regional public education and outreach stakeholder meetings annually.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): Immediately
  - c. Frequency of actions (if applicable): Once annually
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager

**F. BMP #6**

1. Target audience: Installation and surrounding community
2. Description of BMP: Pertinent environmental information will be shared with on/off-base residents and employees via advertisements and public service announcements on the Rock of the Marne television station and the Frontline Installation Newspaper. EPCB will increase their usage of the “Rock of the Marne” television and the “Frontline” Installation Newspaper for publicizing upcoming events and changes or updates to important policies and procedures.
3. Measurable Goal(s): Submit one article per year to run in the Installation Frontline Newspaper.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): Immediately
  - c. Frequency of actions (if applicable): Submit one article per year for the Installation Frontline Newspaper
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager and Public Relations personnel, and Installation Public Affairs Office.

**G. BMP #7**

1. Target audience: Soldiers and Family Members (Residents Housing)
2. Description of BMP: Residential town hall and owners meetings. Residents participate in Government Military Housing (GMH)/DPW Housing Division [GMH] town hall and owners meetings, where environmental issues may be reported and/or discussed, including stormwater management, illicit discharges, fat-free sewers, and pet waste disposal, among others. The meetings give the residential community a voice and a stake in environmental stewardship at the Installation.
3. Measurable Goal(s): Disseminate 200 stormwater informational literature and brochures at Installation residential “town hall” owners meetings twice annually.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): November 2009
  - c. Frequency of actions (if applicable): twice annually
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager, Stormwater, Public Relations, DPW Housing Division and GMH personnel.

## **Appendix B**

### **Public Involvement / Participation**

NPDES Part IV.B.2 Requirement: You must, at a minimum, encourage all sectors of the base community to participate in the implementation of a public involvement/participation program.

#### **A. Best Management Practice (BMP) #1**

1. Target audience: Garrison, Military Units, Directorates, Tenant Organizations
2. Description of BMP: Forum meetings are utilized to key in on areas where additional involvement and/or participation from the Military Units, Tenant Organizations, and other Directorates, (such as Housing Division & Residents, Morale Welfare and Recreation, and Services Division) are needed to assist with all aspects of environmental compliance.
3. Measurable Goal(s): Attend and participate in two (2) Environmental Quality Control Committee (EQCC) forum meetings with Garrison Commander and other sectors of the Installation community annually.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): Immediately
  - c. Frequency of actions (if applicable): 2 times a year
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: Garrison, Directorate of Public Works, and DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager and Public Relations personnel.

**B. BMP #2**

1. Target audience: Soldiers, Family Members, Residents, Tenant Organizations, and Civilian working community.
2. Description of BMP: A Command Policy Letter has been established for Installation wide participation in the recycling program. The recycling program currently processes paper, plastics, aluminum, glass, POL, and batteries. There are designated drop off locations, curbside pick up for residents, and at each facility (not residential-except for Single Soldiers Barracks) a blue recycling dumpster is placed along side the brown waste dumpster, which are picked up weekly and taken to the Installation recycling center for processing. At each EQCC meeting an award of monetary value is presented to Active Units which have excelled with the program.
3. Measurable Goal(s): Awarded two (2) Military Units annually for successful implementation of the program. Maintain number of weekly curbside pickups of recyclable materials. Track total amount of material recycled.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): Immediately
  - c. Frequency of actions (if applicable): Award two (2) Military Units awarded annually and total amount of material recycled.
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: DPW Environmental Prevention & Compliance Branch/Recycling Program and Stormwater Program Manager.

**C. BMP #3**

1. Target audience: Soldiers, Residents, Tenant Organizations, and Civilian working community.
2. Description of BMP: Community concerns and complaints (e.g., illegal dumping, polluting activities, etc.) are registered through the GMH, DPW Housing & Services Division's, and/or the EPCB phone lines. Promotional items distributed at various community events are printed with the EPCB phone number.
3. Measurable Goal(s): Respond to 100% of complaints within 24 hrs. Track and report annually the number of complaints received.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): Immediately
  - c. Frequency of actions (if applicable): Ongoing-document-total number of complaints/time efficiency responses annual totals.
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: GMH, DPW, RCI and DPW Services and Environmental Prevention & Compliance Branches/Stormwater Program Manager.

**D. BMP #4**

1. Target audience: Director, Public Works, DPW Engineering, Services, Residential Housing and Environmental Division's, Tenant Organizations, Soldiers, Industrial Activities.
2. Description of BMP: Implementation of storm drain identification program. Presently the Phase I Industrial Activities are identifying storm drains with either an fish stencils painted in yellow or painting areas surrounding inlets with yellow paint to prevent the dumping of illicit substances into the stormwater collection systems. EPCB will implement a storm drain identification program with the assistance of Installation Tenant organizations, other divisions, and Military Units by stenciling with identifying markings such as fish stencils, yellow paint, or medallions noting drain discharges to a fresh water stream in administrative areas, parking lots and residential areas.
3. Measurable Goal(s): Identify and mark twenty-five (25) Phase II MS4 storm drains per year in residential housing areas, parking lots, and administrative areas. Once all storm drains have been identified and marked will refurbish as needed.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately-Phase I Industrial Activities presently identified by stenciling or yellow paint
  - b. Implementation Date (if applicable): June 2010
  - c. Frequency of actions (if applicable): annually
  - d. Month/Year of each action (if applicable): on-going
5. Person (position) responsible for overall management and implementation of the BMP: DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager, stormwater personnel, Military Units and Installation Tenant Organizations.

\* For a military facility, the target audience shall be considered to be both the resident population and employee population within the fence line of the facility.

**Note:** The MS4 is not limited to implementing only 2 BMPs for each minimum control measure. If additional BMPs are chosen, then you should attach additional sheets as needed.

## Appendix C

### Illicit Discharge Detection and Elimination

NPDES Permit Part IV.B.3 Requirement: You must develop, implement and enforce a program to detect and eliminate illicit discharges into your small MS4. You must:

- A) Develop, if not already completed, a storm sewer system map, showing the location of all outfalls and the names and location of all waters of the State that receive discharges from those outfalls\*;
- B) Effectively prohibit, through a regulatory mechanism, non-storm water discharges into your storm sewer system and implement appropriate enforcement procedures and actions;
- C) Develop and implement a plan to detect and address non-storm water discharges, including illegal dumping, to your system; and
- D) Inform the base community of hazards associated with illegal discharges and improper disposal of waste.

#### **A. Storm Sewer Map**

1. Does the MS4 have a completed storm sewer map showing the location of all outfalls and the names and location of all waters of the State that receive discharges from those outfalls? Yes   X   No \_\_\_\_\_

\*\*Preliminary mapping has been completed by FY09; however, additional work and updating of existing mapping is needed.

2. If the storm sewer system map must be developed, provide a schedule for completion (e.g. 30% of system to be mapped each year): 20% of the MS4 outfalls will be mapped per year

Final completion date/ date for submittal to EPD (No later than two years from the issuance date of the Permit: 15 July 2013)

\*For military facilities, the map should identify the following features: [please see enclosures for bullets noted below]

- Delineation of the physical area of the facility (e.g. fence line);
- Areas of the facility covered by an existing NPDES Permit; and
- Any outfalls covered by an existing NPDES Permit.

**B. Regulatory Mechanism Evaluation**

1. Does the MS4 have a regulatory mechanism that effectively prohibits illicit discharges? Yes   X   No \_\_\_\_\_

If yes, submit a copy as an addendum to this form. (**Appendix E-1 Army Regulation 200-1 Section 4-2 Water Resources**)

2. If an evaluation of the regulatory mechanism must be completed, or the MS4 is aware that the regulatory mechanism will require revision, then a schedule for development of the document should be provided:

Task  
N/A

Interim Date  
N/A

Final completion date/ date for submittal to EPD (No later than two years after issuance date of the Permit): N/A

**C. Best Management Practice (BMP) #1**

1. Target audience: DPW Environmental Prevention & Compliance Branch
2. Description of BMP: EPCB will implement and develop an illicit discharge prevention program utilizing several strategies. The illicit discharge detection component of the program will center on developing a comprehensive geographic information system (GIS) mapping database of the MS4 Populated Area. The Arc-GIS-based mapping system will include coverage of stormwater utilities (piping, ditches, retention/detention basins, and drain inlets), watersheds, Phase II outfalls, and current stream sampling locations. Elements of the GIS system will be developed from existing facility plans and schematics, aerial photography, satellite imagery, field inspections, ground-truth studies, and U.S. Geological Survey (USGS) quadrant maps. In many cases, existing electronic data are converted from a variety of file formats to Arc-GIS formats. Other elements will also be added to the database, including land use, geology, and water-quality information. The GIS system will allow EPCB to review cross-connections, dry-weather discharges, and potential illegal dumping points. All Phase II outfalls will be field-verified using global positioning system units.
3. Measurable Goal(s): Complete map by 2013; approximately 40% by completed by 2011, approximately 60% completed by 2012 and 100% by 2013.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Existing-Immediately
  - b. Implementation Date (if applicable): Continual as needed
  - c. Frequency of actions (if applicable): 40% 2011  
60% 2012  
100% 2013
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager, GIS technician, and DPW Engineering Division.

**D. BMP #2**

1. Target audience: DPW Environmental Prevention & Compliance Branch
2. Description of BMP: Dry Weather Visual inspections Phase II MS4 Outfalls, Development of IDDE Plan for NSWDC inspections, testing, monitoring, and designed fixes, Outfall Reconnaissance Inventory (ORI), Development of ORI Standard Operating Procedures and existing Stormwater SOP revisions.

(a). EPCB will develop an IDDE Plan for all Installation outfalls, including an outfall reconnaissance inventory (ORI) of outfalls and discharge points. An initial dry weather screening of drainage ditches, piping, and high-risk areas for illicit discharges will be completed for visual signs of illicit discharges, which ultimately discharge to the Phase II MS4 outfalls. Discharges will be observed for rate of flow, color, oil sheen, floatables, stains from illicit dumping, and odor. If NSWDCs are discovered, the team will back track the system to determine the source and samples will be collected and analyzed per the IDDE Guidelines for parameter sampling. Once the source is determined the findings with recommendations for eliminating the discharge will be submitted to DPW Services Division. In certain cases, advanced screening techniques may need to be employed (e.g., dye tests, smoke tests, and camera inspections). The ORI will focus on specific outfalls and serve as an added tool in the development of a database of potential illicit discharges. From the results of the ORI, efforts to eliminate and prevent illicit discharges will be focused on specific areas or activities, allowing EPCB to further develop education and outreach strategies. EPCB will develop ORI Standard Operating Procedures that enforces compliance with the Stormwater Management Program, which includes the prohibition of illicit discharges. These Standard Operating Procedures will be distributed as needed, and will be available on the Installation intranet.

(b). EPCB will visually inspect the Phase II MS4 outfalls which discharge to the Waters of the State during dry weather for signs of NSWDCs utilizing Fort Stewart/Hunter Army Airfield Dry Weather Screening Procedures (**Appendix C-1**). Visually inspecting the discharge for biological indicators including: emergent vegetation, algae blooms, lack of or stunted vegetation, presence or absence of aquatic life, and fish kills. If NSWDCs are discovered, the team will back track the system to determine the source and samples will be collected and analyzed per the attached procedures for parameter sampling. The team will submit findings with recommendations for eliminating the discharge.

3. Measurable Goal(s): Upon completion of the initial screening the team will screen 25% of the MS4 outfalls per year.

4. Schedule:

(a).

- a. Implementation Date (if applicable): April 2010
- b. Submit to GA EPD for review April 2010
- c. Frequency of actions (if applicable): N/A
- d. Month/Year of each action (if applicable): N/A

(b).

- a. Implementation Date (if applicable): June 2010
- b. Frequency of actions (if applicable): 25% of outfalls per year
- c. Month/Year of each action (if applicable): N/A

5. Person (position) responsible for overall management and implementation of the BMP: DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager, stormwater personnel, DPW Services Division and contractors.

**E. BMP #3**

1. Target audience: DPW Environmental Prevention & Compliance Branch
2. Description of BMP: Existing Department of Defense Army Regulations-200-1 and the Unified Facilities Codes for Federal Facilities (Appendix E-1) in conjunction with State regulations establish criteria for identifying illicit discharges and reporting procedures. Utilizing the ORI SOP and annual inspections; violations will be enforced through a progressive system of notices and warnings from any findings during these inspections, with recommendations for corrective actions to be submitted to DPW Services Division within 30 days of discovery-(to follow procedural protocol of notifications and dependant upon cost for these corrections). Installation residents, workforce and Military personnel will report any violations EPCB, DPW Services Branch, and/or GMH, which will be brought to attention at the GMH residential town hall meetings, EQCC meetings with the Garrison Commander, Military Units and other Directorates in attendance, and filed at the Environmental Library (noted in Public Education/Outreach portion of NOI/SWMP).
3. Measurable Goal(s): Ensure 100% of illicit discharges are documented and corrective actions implemented within 30 days.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Dry Weather Screening Procedures (Appendix C-1) and development of ORI SOP by November 2010.
  - b. Submittal date to GA EPD for review: November 2010
  - c. Implementation Date (if applicable): Posting of ORI SOP and availability Installation Intranet and EP&CB Library January 31, 2011
  - d. Frequency of actions (if applicable): update annually as needed
  - e. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager/DPW Services Division.

## Appendix D

### Construction Site Storm Water Runoff Control

NPDES Permit Part IV.B.4 Requirement: You must develop, implement, and enforce a program to reduce pollutants in any storm water runoff to your small MS4 from construction activities that result in a land disturbance of greater than or equal to one acre. Reduction of stormwater discharges from construction activity disturbing less than one acre must be included in your program if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more. Your program must include:

- A) A regulatory mechanism to require erosion and sediment controls, as well as sanctions to ensure compliance;
- B) Requirements for construction site operators to implement appropriate erosion and sediment control best management practices;
- C) Requirements for construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality;
- D) Procedures for site plan review which incorporate consideration of potential water quality impacts;
- E) Procedures for receipt and consideration of information submitted by the base community; and
- F) Procedures for site inspection and enforcement of control measures.

#### **A. Regulatory Mechanism Evaluation**

1. Does the MS4 have a regulatory mechanism which is adequate to require erosion and sediment controls at construction sites?  
Yes  X  An Erosion & Sedimentation Specification for contracts (Appendix D-1)
  
2. Does the regulatory mechanism include sanctions for failure to comply with erosion and sediment control requirements?  
Yes  X  No \_\_\_\_\_

3. If an evaluation of the regulatory mechanism must be completed, or the MS4 is aware that the regulatory mechanism will require revision, then a schedule for development of the document should be provided:

<u>Task</u>	<u>Interim Date</u>
<u>N/A</u>	<u>N/A</u>
<u>N/A</u>	<u>N/A</u>

Final completion date/ date for submittal to EPD (No later than two years after the issuance date of the Permit): N/A

**B. BMP #1**

1. Target audience: Director, Public Works, DPW Engineering, Services, and Inspections Branches, United States Army Corps of Engineers (USACE), ITAM/Range Division, Construction contractors, Tenant Organizations, Military Units, NRCS and DPW Environmental Division.
2. Description of BMP: DPW EPCB and the National Resources Conservation Service (NRCS) developed an Erosion and Sedimentation (E&S) Control Specification Guidance document to provide detailed Hunter Army Airfield-specific requirements. The guidance document describes approved methods for controlling splash erosion and runoff encountered during land disturbing activities for construction. In addition, from a recommendation made by the Director, Public Works and the Staff Judge Advocate Legal Office, Fort Stewart and Hunter Army Airfield has developed a stringent size threshold policy requiring construction sites of 0.75 acres or greater to comply with the NPDES stormwater runoff program guidelines, this requirement is more stringent than GA EPD 1 acre requirement. The U.S. Army Corps of Engineers (USACE) has adopted the guidance document and requires contractors to comply. Presently in conjunction with the United States Army Corps of Engineers, the DPW Engineering and Inspections Divisions the E&S Specification and 0.75 acre threshold has been implemented with all contracting for construction development on the Installation. Additionally, in the contracts it requires the contractors to prepare site specific stormwater pollution prevention plans to address waste containment measures, proper storage of operations and equipment, spill prevention, and documentation. This E&S specification will be made available on the Installation intranet public folders.
3. Measurable Goal(s): Ensure E&S Specification is included with 100% of awarded contracts.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Submittal to GA EPD: **Appendix D-1**
  - c. Implementation Date (if applicable): E&S Specification available on Installation Intranet February 2011
  - d. Frequency of actions (if applicable): On-going, update as needed annually with new regulatory or Department of the Army Executive Orders related to the same
  - e. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: Director, Public Works, DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager.

**C. BMP #2**

1. Target audience: Director, Public Works, DPW Engineering and Services Division's, United States Army Corps of Engineers (USACE), ITAM/Range Division, Construction contractors, Tenant Organizations, Military Units and DPW Environmental Division.
2. Description of BMP: To enforce the guidelines, EPCB and NRCS provides annual Stormwater Construction E&S Training and information related to any new effective technologies available for utilization during construction activities, at the Installation to educate USACE and their contractors, Engineering Division personnel, the roads/grounds O&M contractor, Environmental Division forestry and fish and wildlife branch personnel, and any other contractor or tenant agency involved with land disturbance activities on Hunter Army Airfield.
3. Measurable Goal(s): Hold one (1) training event annually. Maintain copies of training attendance rosters with the total number of attendees annually.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): Immediately
  - c. Frequency of actions (if applicable): Once annually (spring March-May)
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager and NRCS.

**D. BMP #3**

1. Target audience: Director, Public Works, DPW Engineering and Services Division's, USACE, ITAM/Range Division, Contractors, Tenant Organizations, and DPW Environmental Prevention & Compliance Branch.
2. Description of BMP: Certified personnel from EPCB and the NRCS, located at Hunter Army Airfield, conducts weekly inspections of construction sites. A Construction site compliance inspection checklist is utilized with photo documentation of positives as well as deficiencies noted at each site. Upon completion of inspections, the report is disseminated to all concerned with timelines for correction of any noted deficiencies; follow-up inspections are performed and documented. Inspection items include site hydrology, Erosion and Sedimentation Pollution Control Plan (E&SPCP) BMPs, E&S State Certified personnel on site, spill prevention and controls, dust control measures, waste containment measures, operations and equipment, and site specific daily, weekly, monthly inspections and rain data logs documentation. Construction site inspections are prioritized based on known violations, proximity to stormwater conveyances and natural water bodies, complexity of operations, and overall disturbed acreage. NRCS is responsible for "technical oversight," reviewing and approving submitted E&SPCPs. Community concerns/complaints regarding construction sites are addressed similarly as to Public Involvement BMP # 4; memorandums for record are documented describing the complaint and corrective actions taken.
3. Measurable Goal(s): Construction compliance site inspections will be performed weekly DPW Environmental Prevention & Compliance Branch personnel. Track and report total number of inspections performed annually.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): Immediately
  - c. Frequency of actions (if applicable): Weekly Inspections
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager, Stormwater Personnel, and NRCS.

**E. BMP #4**

1. Target audience: Director, Public Works, DPW Engineering, Services, Division's, USACE, ITAM/Range Division, Contractors, Tenant Organizations, and DPW Environmental Prevention & Compliance Branch
2. Description of BMP: Erosion and Sediment Pollution Control Plans (E&SPCP); NRCS is responsible for "technical oversight," reviewing and approving 100% of the submitted E&SPCPs by contractors for projects on the Installation. Although the E&SPCP must be reviewed by NRCS, EPCB is responsible for coordinating the completion of the Notice of Intent (NOI) to maintain compliance. DPW as "owner" is ultimately responsible for signing the NOI submitted to the State of Georgia.
3. Measurable Goal(s): NRCS will review 100% of the construction site E&SPCPs. The total number of plans submitted for review will be tracked and reported in the annual report.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): Immediately
  - c. Frequency of actions (if applicable): On-going
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: NRCS, DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager.

**F. BMP #5**

1. Target audience: Director, Public Works and construction site operators
2. Description of BMP: Notice of Intent's (NOI's) Construction Director, Public Works and construction site operators jointly sign Construction NOI's, the DPW as "owner" for Installation Projects. NRCS will be responsible for "technical oversight," reviewing and approving 100% of the submitted E&SPCPs. Although the E&SPCP must be reviewed by NRCS, EPCB is responsible for coordinating the completion of the Notice of Intent (NOI) to maintain compliance. DPW as "owner" is ultimately responsible for signing the NOI submitted to the State of Georgia.
3. Measurable Goal(s): EPCB will continue to encourage cooperation in the construction community by requiring DPW and the site operator to jointly sign 100% of the submitted NOIs.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): Immediately
  - c. Frequency of actions (if applicable): On-going
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: Director, Public Works, DPW Environmental Prevention & Compliance Branch Stormwater Program Manager, and contractors

**G. BMP #6**

1. Target audience: Garrison, Military Units, Directorates, Tenant Organizations
2. Description of BMP: Forum meetings are utilized to key in on areas where additional involvement and/or participation from the Military Units, Tenant Organizations, and other Directorates, (such as Housing Division & Residents, Morale Welfare and Recreation, and Services Division) are needed to assist with all aspects of environmental compliance.
3. Measurable Goal(s): Attend and participate in two (2) Environmental Quality Control Committee (EQCC) forum meetings with Garrison Commander and other sectors of the Installation community annually.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): Immediately
  - c. Frequency of actions (if applicable): 2 times a year
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: Garrison, Directorate of Public Works, and DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager and Public Relations personnel.

## Appendix E

### Post-Construction Storm Water Management in New Development and Redevelopment

NPDES Permit Part IV.B.5 Requirement: You must develop, implement, and enforce a program to address storm water runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development that discharge into your small MS4. You must:

- A) Develop and implement strategies which include a combination of structural and/or non-structural BMPs appropriate for your community, including use of the Georgia Stormwater Management Manual or an equivalent stormwater management design manual;
- B) Use a regulatory mechanism to address post-construction runoff from new development or redevelopment projects; and
- C) Ensure adequate long-term operation and maintenance of BMPs.

#### **A. Regulatory Mechanism Evaluation**

1. Does the MS4 have a regulatory mechanism that effectively controls runoff from new development or redevelopment construction sites?  
Yes   X   and No \_\_\_\_\_

If yes, submit a copy as an addendum to this form. (*Federal Executive Order #13423 The EISA 2007 and Executive Order #13451- 5 OCT 09- Requires low impact development related to stormwater runoff to maintain or restore the predevelopment hydrology of the property for new or redevelopment projects with a footprint of 5,000 square feet (0.11 acres) or more to the maximum extent practicable. Additionally, DoD Facilities are required to utilize the United Facilities Criteria (UFC) Manual for Low Impact Development Design for DoD Facilities, design to LEEDs Silver Standards, and utilize the USACE PWTB 200-1-62 LID for Sustainable Installations: Stormwater Design Planning Guidance for Development within Army Training Areas is required: [Appendix E-1].*)

In addition, when reviewing projects for the National Environmental Policy Act EIS, EAs and/or RECs; it is noted to assist with implementing designs for compliance with NPDES Stormwater Permitting requirements for Pre/Post Construction: Sites involving at least 0.11 acres of land disturbance must include flow calculations demonstrating concentrated

runoff flows from peak rain events will not impact (a) the existing stream, (b) upstream systems, and (c) downstream systems of the site as required for Total Maximum Daily Loads (TMDLs) for water quality standards for the removal of any potential pollutants. By removing Total Suspended Solids [TSS] by 80%; maintaining predevelopment time of concentration by strategically routing flows to maintain travel time, improve water quality, and to control the discharge.

To meet the NPDES Permitting requirements for Pre/Post Construction, the Energy & Independence Security Act of 2007, and the TMDL requirements; utilization of the Coastal Stormwater Supplement [CSS] in the Georgia Stormwater Management Manual <http://www.box.net/shared/static/puss89kpgf.pdf> Worksheet to ensure consistency with CSS, April 2009: <http://www.box.net/shared/static/al69icbt6p.xls> Must be utilized for site designs.

- 2. If an evaluation of the regulatory mechanism must be completed, or the MS4 is aware that the regulatory mechanism will require revision, then a schedule for development of the document should be provided:

<u>Task</u>	<u>Interim Date</u>
<u>N/A</u>	<u>N/A</u>
<u>N/A</u>	<u>N/A</u>
<u>N/A</u>	<u>N/A</u>

Final completion date/ date for submittal to EPD (No later than two years after the issuance date of the Permit): N/A

**B. Best Management Practice (BMP) #1**

1. Target audience: Director, Public Works, the DPW Master Planning, Engineering, Services (Roads & Grounds), and Environmental Divisions, USACE, ITAM/Range Division & Contractors.
2. Description of BMP: Development of the Installation Stormwater Guidance, distribute by making available from the Installation intranet public folders-will re-enforce the state and federal regulatory requirements. The development of Stormwater Guidance will assist with compliance of the SWMP, including requirements for post-construction stormwater management. The policy will target contractors and applicable units and tenants who are subject to comply with existing stormwater policies. Upon completion of the guidance it will be forwarded to the Staff Judge Advocate Office for legal review; once approved it will be implemented Installation wide. The policy will be distributed as necessary (e.g., noted during NEPA project reviews, Design Charrettes, and pre-construction meetings, and made available on the Installation intranet). Develop Stormwater Guidance by June 2010. The guidance will require compliance with the Installation Stormwater Program and the NPDES permitting requirements, including the maintenance and inspection of post-construction BMPs, upon completion of the guidance it will be forwarded to the Staff Judge Advocate Office for legal review; once approved it will be implemented Installation wide.
3. Measurable Goal(s): 100% of the post construction projects will be reviewed for compliance with the Stormwater Guidance.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Develop by June 2010
  - b. SJA legal and Submittal to GA EPD for review:  
by July 2010
  - c. Implementation Date (if applicable): upon approval of SJA/GA EPD  
December 2010
  - d. Frequency of actions (if applicable): On-going, update as needed
  - e. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: Director, Public Works and Environmental Prevention & Compliance Branch/Stormwater Program Manager

**C. BMP #2**

1. Target audience: Director, Public Works, the DPW Master Planning & Engineering Divisions, ITAM/Range Division, USACE & Contractors, DPW Environmental Prevention & Compliance Branch.
2. Description of BMP: Up-dates of the Installation Design Guide (IDG-Appendix E-2): The Hunter Army Airfield Master Planning Division, with assistance from the U.S. Army Construction Engineering Research Laboratory (USACERL), will review and update the IDG. The IDG provides LEEDs standards on master planning and will encourage the use of LID to reduce stormwater pollution. The primary goals of LID enhancements are to reduce the volume of runoff and find beneficial uses for runoff water to eliminate disposal into the storm sewer. LID guidelines will (1) provide examples of approved LID methods and techniques for use in post-construction projects, including vegetative swales, water-tolerant native plants, rain gardens, bio-retention, and porous pavement systems, among others; and (2) provide continuity among Installation projects. LID will also reduce curbing and gutters, and the number of standing water ponds at the Installation, by requiring dry detention basins. Reducing curb/gutter systems encourages the infiltration of “flash” stormwater runoff into the ground, reducing the potential for erosion and increased sediment loads in area streams. Eliminating standing water ponds reverts stormwater drainage to more natural conditions, reduces mosquito problems, and ensures that new development stormwater runoff is better than or similar to pre-construction stormwater runoff, improving water quality and limiting the impacts of flooding of existing stormwater conveyance systems. EPCB will work closely with Master Planning and USACERL, to increase the use of LID techniques for Installation development and re-development projects. Upon approval, the IDG will be distributed to the other divisions and applicable tenant organizations. The IDG will be reviewed and updated as needed with new regulatory guidelines. Review, updating, and adhering to the IDG will provide guidance on master planning and mandate the use of Low Impact Development BMPs to reduce stormwater pollution.
3. Measurable Goal(s): IDG will be updated once every three-five years. The IDG will be utilized for 100% of development and re-development projects.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): Immediately
  - c. Frequency of actions (if applicable): Update 1 time every 3-5 years
  - d. Month/Year of each action (if applicable): N/A

5. Person (position) responsible for overall management and implementation of the BMP: Director, Public Works, and Master Planning & Engineering Divisions, USACE and the DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager

**D. BMP #3**

1. Target audience: Director, Public Works, DPW Master Planning, Engineering, Services, and Environmental Divisions, USACE, ITAM/Range Division.
2. Description of BMP: Inspection and Maintenance of Post Construction Stormwater Structures. Hunter Army Airfield presently has eight (8) engineered stormwater Retention Basins: (1) Harmon Canal, (1) Halstrom Lake, (2) New Savannah/New Callaway-South Perimeter Road, (1) Oglethorpe Lake-Lightening Road, (1) Wilson Gate [Savannah-Influent], and (1-retention/detention basin) New Gannam, and (1) 96 Man Barracks @ Lightning Road.

There are various engineered Detention Basins at facilities which include: HAAF Child Development Center [CDC]-Perimeter/Rio Roads, HAAF CDC-Bldg. 8805, Rio Gate RV Park and Campground, AAFES Shoppette South Perimeter Rd, New Savannah/New Callaway Housing, HAAF Company Operations Facility-South Lighting Rd, Parking Lot Bldg. 140, HAAF Equipment Maintenance Facility @ Ranger Support COF, Military Working Dog Kennel Bldg. 1030, Modularity Bldg. TF808, 260<sup>th</sup> Quarter Masters Bldg.1420, and any new construction activity designs are required to be dry detention per the DPW Engineering Policy Letter #10. The GSMM-CSS, USEPA and/or Center for Watershed Protection Inspection Checklist and Recommended Maintenance schedules for the specific type structure will be utilized for these inspections. An inventory of these detention basins is being performed.

3. Measurable Goal(s): EPCB will implement an Inspection Schedule for these basins and inspect 20% of the structures once annually. When maintenance is needed a Service Order will be generated within 24 hours of discovery.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Complete the inventory of existing basins by January 31, 2010
  - b. Implementation Date (if applicable): February 2010
  - c. Frequency of actions (if applicable): 20% of the structures inspected annually
  - d. Month/Year of each action (if applicable): Update structures inventory as needed annually
5. Person (position) responsible for overall management and implementation of the BMP: DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager, Services Division O&M Contractor.

**E. BMP #4**

- a. Target audience: Garrison, Military Units, Directorates, Tenant Organizations
- b. Description of BMP: Forum meetings are utilized to key in on areas where additional involvement and/or participation from the Military Units, Tenant Organizations, and other Directorates, (such as Housing Division & Residents, Morale Welfare and Recreation, and Services Division) are needed to assist with all aspects of environmental compliance.
- c. Measurable Goal(s): Attend and participate in two (2) Environmental Quality Control Committee (EQCC) forum meetings with Garrison Commander and other sectors of the Installation community annually.
- d. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): Immediately
  - c. Frequency of actions (if applicable): 2 times a year
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: Garrison, Directorate of Public Works, and DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager and Public Relations personnel.

## **Appendix F**

### **Pollution Prevention/ Good Housekeeping for Municipal Operations**

**NPDES Permit Part IV.B.6 Requirement:** You must develop and implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal-type operations. In addition, the operation and maintenance program must address the following areas:

- Maintenance activities including maintenance schedules and long-term inspection procedures for controls to reduce floatables and other pollutants from the MS4.
- Controls for reducing or eliminating the discharge of pollutants from streets, roads, highways, parking lots, maintenance and storage yards, waste transfer stations, fleet and maintenance shops with outdoor storage areas, and salt/sand storage locations.
- Procedures for the proper disposal of waste removed from the MS4 and municipal-type operations, including dredged spoils, accumulated sediments, floatables, and other debris.

**A. Best Management Practice (BMP) #1**

1. Target audience: Director, Public Works, the DPW Master Planning, Engineering, Services (Roads & Grounds), and Environmental Divisions, USACE & Contractors.
2. Description of BMP: Revisions of existing Installation Stormwater Maintenance SOP (Appendix F-1). The existing Stormwater Standard Operating Procedures for stormwater conveyance systems will ensure compliance with the Installation's SWMP, including the maintenance and upkeep of the stormwater conveyance system (e.g., canals, streams, and major drainage ditches, etc.). The SOP will target contractors, applicable units, and tenant organizations that are subject to comply with the existing stormwater policies, focusing on the maintenance and inspection of major stormwater conveyances on the Installation. The SOP will be distributed as necessary and made available on the Installation Intranet. However; revisions will be made to include maintenance of catch basins, inspections schedules with quantities for inspections Qrtly/annually for maintenance; requirements of the Georgia Erosion and Sediment Control Manual, which serves as a technical guide for land disturbing activities; and the Georgia Stormwater Manual/Coastal Stormwater Supplement recommended inspection checklists. All Installation contractors, tenant organizations, and Military Units will be required to follow the SOP. Update and re-distribute Installation Stormwater (major ditches, streams and canals) Maintenance SOP, which requires compliance with USEPA guidelines for ditches, streams, and canals maintenance, the Georgia Erosion and Sediment Control Manual, and the Georgia Stormwater Management Manual/Coastal Stormwater Supplement. Establishes a standard approach for major collection system maintenance for the Installation that is consistent with State policy. Ensures the system is in proper operating order and will assist with discovery and elimination of illicit discharges. Stormwater conveyances will be serviced as needed by Service Order requests, following E&S, Stormwater Guidance and Stormwater SOPs. Ensures the system is in proper operating order for rain events. EPCB will initiate Service Orders for any repairs of the system with the DPW Services Division, for Operations & Maintenance.
3. Measurable Goal(s): Update and distribute the Installation Stormwater (major ditches, streams and canals) Maintenance SOP. Inspect 20% of stormwater conveyance systems annually. Within 10 days of discovery, submit Service Orders for needed MS4 repairs to the DPW Services Division Operations & Maintenance Branch.

4. Schedule:

- a. Interim Milestone Dates (if applicable): Update of existing SOP August 2010
  - b. Submit to GA EPD for review: August 2010
  - c. Implementation Date (if applicable): September 2010
  - d. Frequency of actions (if applicable): Inspections of conveyances for deficiencies once quarterly, submit service orders for repairs/maintenance as needed
  - e. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: Director, Public Works and Environmental Prevention & Compliance Branch/Stormwater Program Manager/DPW Services Division.

**B. BMP #2**

1. Target audience: Soldiers, tenant organizations, municipal operations & maintenance, civilian and housing personnel
2. Description of BMP: Municipal Operations personnel, Recycling, and Solid Waste Training. The ECO/ECNCO Environmental training course trains designated Soldiers, Tenant, Civilian, Municipal and Housing personnel regularly in good housekeeping and preventive maintenance procedures for Industrial Activities such as tracked/wheeled vehicles and fleet maintenance areas, waste transfer stations, wastewater and industrial treatment facilities; waste disposal such as hazardous waste storage & handling, the Fort Stewart sanitary, yard waste and construction debris landfills. EPCB's RCRA team and the Recycling Program team schedules, conducts, and tracks this training, which operates on a train-the-trainer concept for the local community and for each facility to have a Recycling/Solid Waste Compliance Person. Training is conducted both at centralized locations and onsite. Topics include maintenance inspections, stormwater management, and hazardous material management, recycling and solid waste management, good housekeeping and preventive maintenance. Educates selected Soldiers, civilian workforce, Operations & Maintenance and housing personnel in importance of environmental requirements.
3. Measurable Goal(s): Provide ECO/ECNCO course minimum twice per year. Maintain copies of ECP/ECNCO training attendance rosters. Provide the total number of attendees annually.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): Immediately
  - c. Frequency of actions (if applicable): annual report
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager, RCRA Section Leader-Instructors, Recycling Program Instructors, ECO/ECNCOs-once training has been completed.

**D. BMP #3**

1. Target audience: Soldiers, tenant organizations, municipal operations & maintenance, civilian and housing personnel
2. Description of BMP: Municipal Operations, Recycling, and Solid Waste Inspections. EPCB's Stormwater, RCRA and the Recycling Program teams perform inspections of facilities to ensure compliance of industrial activities and to ensure other facilities are compliant with good housekeeping and preventive maintenance procedures for such as tracked/wheeled vehicles and fleet maintenance areas, waste transfer stations, wastewater and industrial wastewater treatment facilities; waste disposal such as hazardous waste storage & handling, the sanitary, yard waste and construction debris landfills, and the solid waste and recycling programs. Inventory of current facilities (**Appendix F-1**). These inspections include areas of maintenance, equipment storage, stormwater management, and hazardous material management, recycling and solid waste management, good housekeeping and preventive maintenance. Ensures Soldiers, civilian workforce, operations & maintenance, and housing personnel are aware of proper procedures, and are adhering to the environmental compliance requirements for several media areas.
3. Measurable Goal(s): Conduct inspections of 20% of the total number of the facilities annually. Update facility inventory annually. Track and report the total number of inspections performed on an annual basis.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): Immediately
  - c. Frequency of actions (if applicable): annual report
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager, RCRA Section Leader-Instructors, Recycling Program Instructors, ECO/ECNCOs-once training has been completed.

**E. BMP #4**

1. Target audience: Soldiers, tenant organizations, municipal operations & maintenance, civilian and housing personnel
2. Description of BMP: Areas of the MS4 are serviced once weekly by pick up for recycling and solid waste in residential housing, Soldiers Barracks, administrative, and industrial areas. Construction sites have appropriate roll-off containers at each construction site to ensure appropriate pick-up and sorting of waste materials. Military Units monitor their respective areas and are assigned other areas for litter pick-up which is disposed of in appropriate dumpsters for pick-up by the aforementioned truck services. This prevents large amounts of trash, litter and recyclables from accumulating on roadways, in catch basins, and in riparian areas. The waste trucks are then directed to the appropriate facility on the Installation, such as sanitary waste, yard waste, construction debris land fills, and the recycling processing areas where they are weighed and weight tickets are utilized for tracking and documentation.
3. Measurable Goal(s): Track and report total tonnages of 100% sanitary waste, yard waste, construction debris, and recycling on an annual basis.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): Immediately
  - c. Frequency of actions (if applicable): Once per year
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager and stormwater personnel, and DPW Housing Division.

**F. BMP #5**

1. Target audience: Installation community
2. Description of BMP: Storm sewer system problems and illegal dumping complaints may be reported to the GMH, DPW Services Branch, or EPCB phone lines. Reporting of storm sewer system problems or issues, and illegal dumping to DPW Housing and Services Division, or DPW Environmental Prevention & Compliance Branch phone lines. Provides medium for community to file complaints and feedback.
3. Measurable Goal(s): Respond to 100% of complaints within 24 hours.
4. Schedule:
  - a. Interim Milestone Dates (if applicable): Immediately
  - b. Implementation Date (if applicable): Immediately
  - c. Frequency of actions (if applicable): On-going
  - d. Month/Year of each action (if applicable): N/A
5. Person (position) responsible for overall management and implementation of the BMP: DPW Housing and Services Division's, and DPW Environmental Prevention & Compliance Branch/Stormwater Program Manager

## Appendix G

### Hunter Army Airfield Total Maximum Daily Loads (TMDLs) Plan

The Hunter Army Airfield (HAAF) Municipal Separate Storm Sewer System (MS4) discharges stormwater into the following surface waters: Lamar Canal (which drains into the Little Ogeechee River, also known as the Forest River), Harmon Canal (which drains to Savannah and into the Vernon River), and to the Casey Canal under White Bluff Road (upper name for Hayners Creek which drains into the Vernon River).

In Chatham County surrounding the HAAF MS4, Hayners Creek (known upstream as Casey Canal), Vernon River, tributary to Hoovers Creek #1 (Headwaters [Skyline Rd] to Hoover Creek, Little Ogeechee River and the Springfield Canal (headwaters to Savannah River) are 2008 303(d) listed streams (*Georgia Environmental Protection Division's "Total Maximum Daily Loads" Web Page*). The 303(d) list includes all surface waters in the State for which beneficial uses of the water, such as for drinking, recreation, aquatic habitat, and industrial use, are impaired by pollutants.

It does not appear as though stormwater discharges from the HAAF MS4 contribute directly or indirectly to a 303(d) listed (impaired) water bodies. Casey Canal (Head of Canal to Montgomery Crossroad, Savannah) and Hayners Creek (Montgomery Crossroad to Vernon River) were on the 303(d) listing during the 2008 cycles for fish consumption, fecal coliform (FC) and dissolved oxygen (DO). Little Ogeechee River (Little Ogeechee Pond to below US Hwy. 17 near Burroughs) was on the 303(d) listing during the 2008 cycles for FC and DO. Total Maximum Daily Loads (TMDLs) were developed and approved for Casey Canal, Little Ogeechee and Vernon River's. The tributary to Hayners Creek #1 has an Assessment Pending. The Springfield Canal [assessment pending] flows are north, and the HAAF MS4 does not discharge to this water body.

The Stormwater Management Plan (SWMP) applies to the HAAF MS4 Urbanized Areas, which includes miles of roadways and stormwater sewer utilities, and several stormwater discharge areas. The storm sewer system draining the Urbanized Area is considered an MS4. Information on the HAAF MS4, including pipes, canals, ditches, outfalls, and drainage areas is illustrated on the enclosed map titled HAAF-MS4 Appendix G-TMDLs Sampling Locations Map.

HAAF MS4 outfalls discharge into stream segments. The northern, central, western, and southwestern portions of the HAAF MS4 drain into a wetland area inside the HAAF MS4, which drains into the Forest River, and ultimately discharges into the Little Ogeechee River. The central, northeastern, and eastern portions of the HAAF MS4 drain into the Casey Canal (Hayners Creek). The HAAF MS4 southeastern portions drain into Harmon Canal and discharges into an un-named tributary which ultimately discharges to the Vernon River. Casey Canal (Hayners Creek) ultimately discharges into the Vernon River.

HAAF performs Industrial Activity Stormwater inspections quarterly and annually. Hazardous materials are stored undercover and/or are indoors, and spill prevention and

clean up measures have been implemented for any accidental spills. Wastewater treatment facilities, lift stations, and septic tank systems are inspected daily by the Directorate of Public Works (DPW) Services Division Operators, and inspected quarterly and annually by DPW Environmental Division program media personnel. Additionally, weekly Erosion & Sedimentation compliance construction inspections are performed by DPW Environmental Stormwater personnel, to ensure Erosion & Sedimentation Pollution Control Plans best management practices have been implemented and are functioning as designed at construction sites.

Water Quality in stream grab samples are collected once annually during non-rain events from the stream segments which discharge into the 303(d) listed impaired water bodies; these grab samples are collected utilizing automatic samplers illustrated on the enclosed map titled 2008 303(d) Listed Streams-HAAF Discharge Outfalls. The annual quantitative samples are collected and analyzed for Five-Day Carbonaceous Biochemical Oxygen Demand (CBOD5) and Ammonia (NH3) with calculations IAW Part III.C.1.b.1 of the National Pollutant Discharge Elimination System (NPDES) Industrial Stormwater Permit and results must be under the applicable benchmark value of Ultimate Oxygen Demand (UOD) of 125.0 mg/l to maintain compliance with the NPDES Permit.

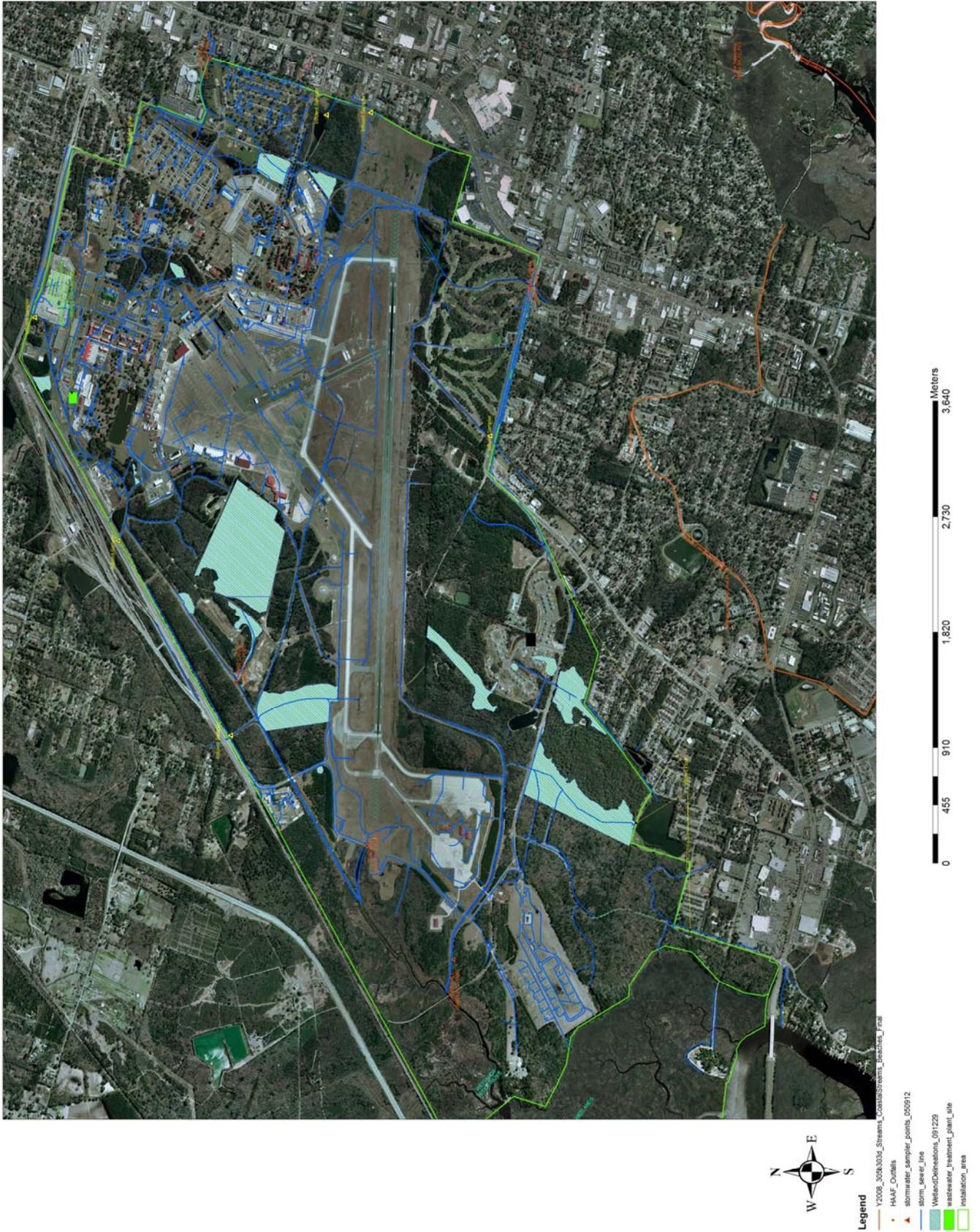
Annual in stream non-rain event grab sampling (2006-2009) of the stream segments which discharge into the listed impaired waters, documents HAAF MS4 does not exceed the TMDLs. The Fort Stewart/HAAF DPW Environmental Division will continue to monitor the MS4 outfalls and the stream segments which discharge into the 303(d) listed waters, and make required adjustments if conditions change or the TMDLs are exceeded. Enclosed is documentation of the parameters and results from 2009 sampling.

Hunter Army Airfield implemented a compliance evaluation outfall screening program for Phase I Industrial Activities and outfalls for non-stormwater discharges (NSWDs) as part of Phase I Industrial Stormwater Permit requirements.

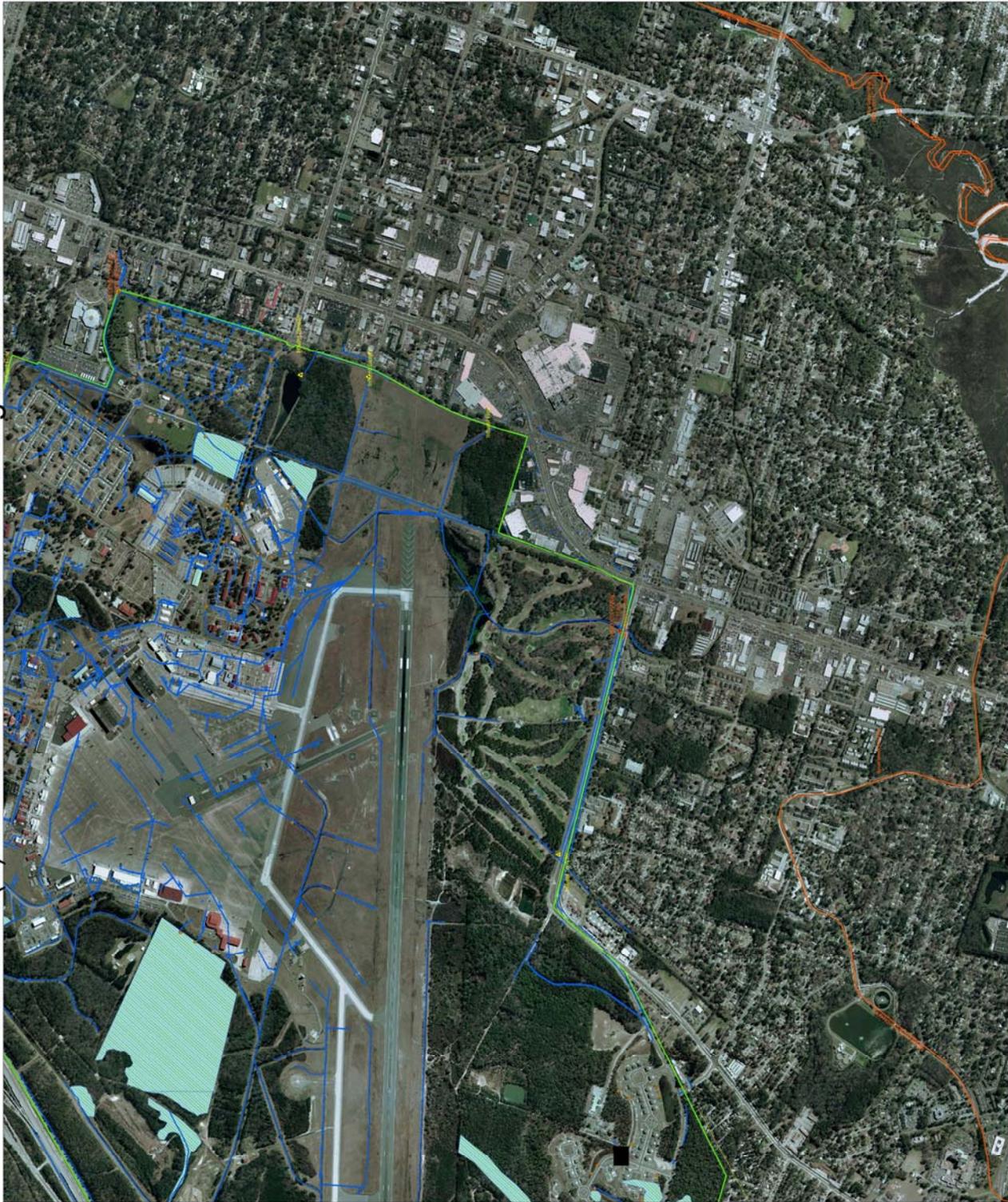
Additionally, the stream segments of the HAAF MS4 which discharge into the listed impaired waters are visually monitored during and after each rain event for the presence of stormwater parameters (color, odor, turbidity, floating solids, settled solids, suspended solids, foam, and oil sheen). There are visual grab samples collected on the stream segments which discharge into these listed impaired water bodies which are photo documented with date/time stamp and placed in the Industrial Master Stormwater Pollution Prevention Plan.

Sampling of the Phase II MS4 303(d) listed impaired water bodies for dissolved oxygen and fecal coliform will be performed once annually for the TMDL compliance requirements. Dissolved oxygen will be sampled by utilizing a sampling probe, and documented on a field inspection report with date, time, and the individual performing the sampling, instrument calibration, sample results, and a certification statement on the form. Samples for fecal coliform will be collected, handled and stored properly for submittal to a state certified lab, once annually for analyses. Documentation for these sampling events will be kept with the MS4 Stormwater Management Plan and submitted to the state during the annual reporting cycle.

# HAAF-MS4 Appendix G-TMDLs Sampling Locations Map



2008 303(d) Listed Streams-HAAF Discharge Outfalls

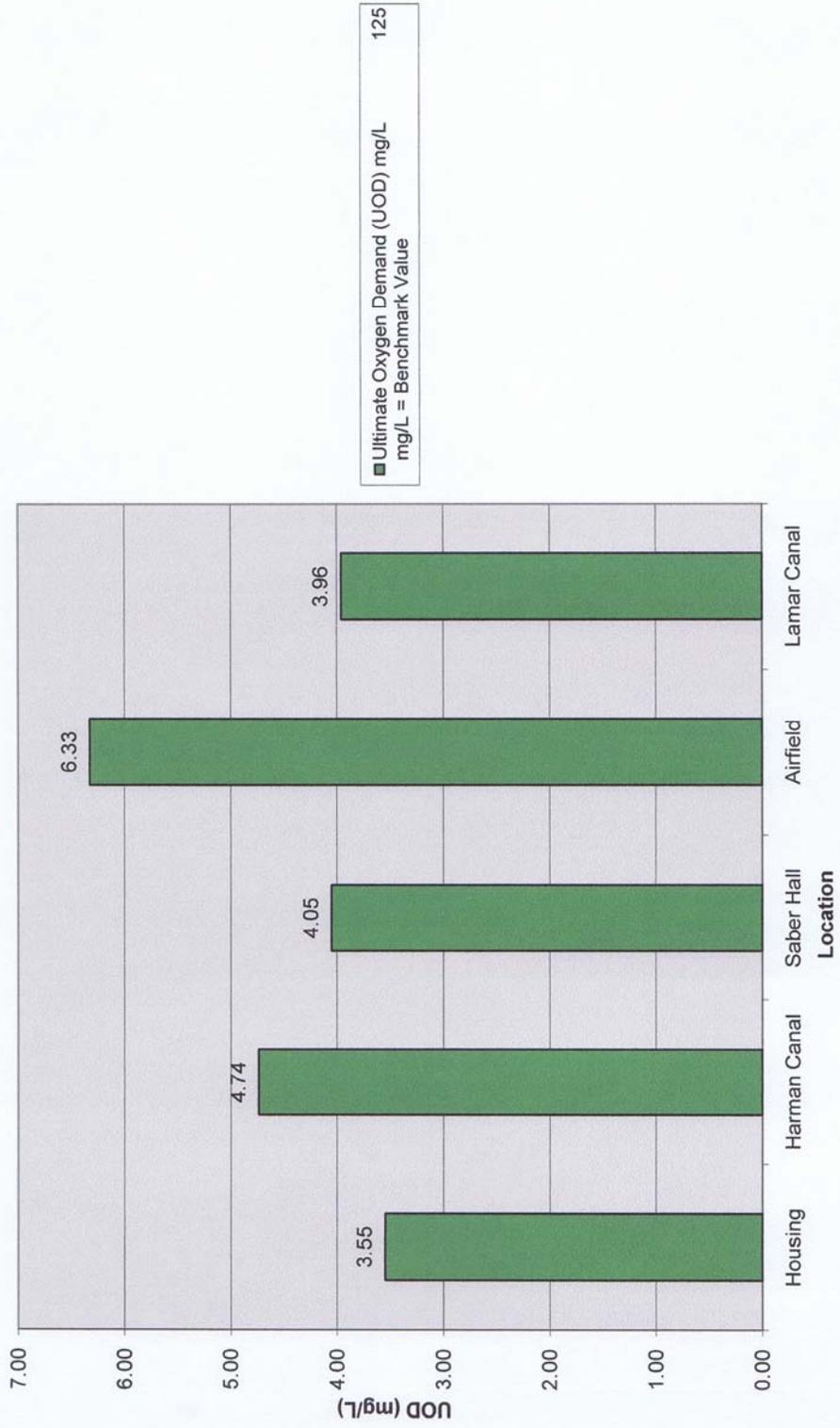


Legend

- Y:\2008\_303(d)\_Listed\_Streams\_CrossedStreams\_Bertha\_Ford
- Installation Area
- Stormwater Sample Points\_050912
- HAAF Outfalls
- Storm Sewer Inlet
- WaterCollection\_091228
- Wastewater Treatment Plant Site

FORT STEWART/HUNTER ARMY AIRFIELD TMDL SAMPLING FY 2009									
Location	NH3	CBOD5	Notes	NH3 conversion	CBOD5 conversion	DO	Ultimate Oxygen Demand (UOD) mg/L	TSS	UOD benchmark value
Fort Stewart									
Bridge 5- Influent from									
Hinesville	0.180	2.00	<2.0	0.82	3.00	4.0	3.82	11.00	125 mg/L
Mill Creek	0.200	2.60		0.91	3.90	3.1	4.81	9.00	
Golf Course	0.150	2.50		0.69	3.75	6.7	4.44	5.00	
Taylor's Creek	0.740	4.60		3.38	6.90	5.3	10.28	10.00	
RCI	0.200	2.40		0.91	3.60	6.3	4.51	23.00	
WAAF	0.180	2.50		0.82	3.75	1.0	4.57	5.50	
HAAF									
Housing	0.120	2.00	<2.0	0.55	3.00	3.1	3.55	5.00	
Harman Canal	0.380	2.00	<2.0	1.74	3.00	4.3	4.74	5.50	
Saber Hall	0.230	2.00	<2.0	1.05	3.00	5.1	4.05	5.00	
Airfield	0.170	3.70		0.78	5.55	5.0	6.33	6.50	
Lamar Canal	0.210	2.00		0.96	3.00	4.9	3.96	8.50	

Hunter Army Airfield FY 2009 TMDL Sampling Ultimate Oxygen Demand (UOD) mg/L



## **Appendix H**

### **1. INTRODUCTION**

The United States Army Garrison (USAG) Hunter Army Airfield (HAAF), hereafter referred to as HAAF, Directorate of Public Works (DPW) Environmental Prevention and Compliance Branch (EPCB) is required to submit a Stormwater Management Plan (SWMP) in accordance with 40 CFR Part 122.26 and 122.30-35, and the Georgia Water Quality Control Act, Georgia Laws (1964, page 416, as amended). This document outlines the DPW program to develop, implement, and enforce a stormwater management program designed to reduce the discharge of pollutants to the maximum extent practicable, to protect water quality, and to satisfy the appropriate requirements of the Clean Water Act (CWA) in accordance with the Georgia Department of Natural Resources (DNR) Environmental Protection Division (GA EPD) Phase II General Permit #GAG610000. The SWMP addresses the six minimum control measures as required by state regulations. The plan also identifies the Installation's legal authority to implement the General Permit.

### **2. PERMIT COVERAGE AREA**

The SWMP applies to the HAAF MS4 Urbanized Area, which includes hundreds of linear miles of roadways and stormwater sewer utilities, five (5) stormwater effluent discharge areas, and six (6) influent drainage areas. The storm sewer system draining the MS4 Urbanized Area is considered a small municipal separate storm sewer system (MS4). Information on the HAAF MS4, including pipes, ditches, swales, outfalls, and drainage areas. MS4 outfalls discharge into the following local waters: Lamar Canal, Forest River, Casey Canal (upper name for Hayners Creek), Harmon Canal, and Vernon River. The northern portion of HAAF collects run-off from administration buildings, hospital, commercial fueling station, recreational ball fields, barracks, warehouses, airfield, motorpools, recycling facility, 90-day hazardous waste storage, inert landfill, wastewater treatment plant, bulk fuel storage, and Air National Guard facilities and drains into the Lamar Canal. Lamar Canal also collects drainage from off-site run-off flows from GA Hwy 516 and the CSX Railroad. The Lamar Canal discharges into the Forest River near the southwest boundary of the Installation. Runoff generated from the southern portion of HAAF, the New Savannah and New Callaway housing developments, Ammo Supply Point, and Saber Hall areas, flows into stormwater basins, wetland areas, and an unnamed manmade canal, respectively, which ultimately drains into the Forest River. Harmon Canal collects runoff from a corner of the airstrip, administration buildings, barracks, aviation motor pools, purge facility, and the golf course. Additional off-site runoff flows from the City of Savannah residential areas onto the Installation near the western edge of the golf course and from commercial areas onto the eastern portion of the airfield which drains into the Harmon Canal and discharges to the Vernon River. The north-eastern portion of HAAF, mostly

military housing, housing maintenance, and recreational ball fields (New Gannam housing development) discharges to an unnamed man made canal which also collects drainage from off-site run-off flows from the City of Savannah residential areas, and Savannah Vocational Technical School which discharges into the Casey Canal (upper name for Hayners Creek), ultimately into the Vernon River.

### **3. LEGAL AUTHORITY**

Army Regulation AR 200-1, entitled “Environmental Protection and Enhancement,” authorizes EPCB to control the quality of separate stormwater discharges to the Installation’s stormwater sewer system. EPCB’s authority, which is granted through the Directorate of Public Works and Garrison Command, addresses both industrial and municipal discharges. EPCB has both the fiscal authority and legal resources to fully implement its stormwater management program. Additionally, EPCB will utilize the resources of the Environmental Division’s Public Relations Section and the Installation Public Affairs Office (PAO) to communicate with a diverse community.

### **4. USAG HUNTER ARMY AIRFIELD OVERVIEW**

HAAF is located on almost 5,400 acres in the southeastern region of Georgia, in Chatham County near Savannah, Georgia. HAAF is a sub-Installation to Fort Stewart which is located approximately 45 miles to the northeast. The HAAF area lies in the Atlantic Coastal Flatwoods soil province of Georgia and is underlain with marine sands, loams, and/or clays. Elevations range from 0.5 feet below mean sea level to 18 feet above mean sea level. Nearby land surface is typically level. Annual rainfall for the region ranges from 44 to 53 inches. Much of the Installation MS4 Urbanized Area drains into the following water bodies: Lamar Canal, Harmon Canal, and Casey Canal to the Forest and Vernon Rivers, respectively, which ultimately drain into the Ogeechee River watershed. The Installation is comprised of a large airstrip, motorpools, fueling facilities, administrative buildings, and aircraft maintenance facilities. It also houses a post exchange and commissary, recreational vehicle campground and storage areas, Lott’s Island Marina and Pier, a health clinic, and several other recreational and public areas. The primary mission of HAAF is to provide a support structure for the 3<sup>rd</sup> Infantry Division and Reserve component units to accomplish their wartime and peacetime missions. HAAF is home to the 3<sup>rd</sup> Infantry Division, which includes the “Marne’s Division” Aviation Brigade and the 260<sup>th</sup> Quartermaster Battalion. Other supporting tenants include the following: 1<sup>st</sup> Battalion, 75<sup>th</sup> Ranger Regiment; 3<sup>rd</sup> Battalion, 160<sup>th</sup> Special Operations Aviation Regiment; Marine Corps Reserve Training Center; 224<sup>th</sup> Military Intelligence Battalion; 117<sup>th</sup> Tactical Control Squadron (Air National Guard); United States Coast Guard Air Station, Savannah; 6<sup>th</sup> Brigade, 1<sup>st</sup> ROTC Region; and Special Forces Recruiting Team. HAAF has a population of approximately 14,741 people, including 4,319 Military personnel, 722 Civilian-Government and Commercial staff, and 9,700 Military Family Members. A population breakdown of the Installation is listed in Table 4-1. HAAF also serves over 12,000 retirees and their Family Members.

**Table 4-1**

**Population Estimates for USAG HAAF**

<b>TYPE</b>	<b>POPULATION</b>
Military (Soldier)	4,319
Military (Family Members)	9,700
Civilian-Government and Commercial	722
<b>TOTAL</b>	<b>14,741</b>