original to State & EPA

Municipality/Organization: U.S. Army Soldier System Ctr.

EPA NPDES Permit Number: MAR042008

MaDEP Transmittal Number: W-041046

Annual Report Number & Reporting Period: No. 3: March 05-March 06

8 - AVW

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Terence Garrahan Title: Environmental Engineer

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Certification:

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 fine and imprisonment for knowing violations.

Signature: G. Terence Garrahan

Printed Name: G. Terence Garrahan

Title: Environmental Engineer

Date: April 26, 2006

Part II. Self-Assessment

U.S. Army Soldier Systems Center appears to be in compliance with all permit conditions.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
PE01 Revised	Stencil Storm drains	ESHO	Job	The Environmental, Safety and Health Office contractor stenciled storm drains with warnings about not dumping.	Stencil identifications will be inspected annually to ensure that lettering has not faded.
PE02 Revised	Website Postings	ESHO	Job	ESHO has posted guidance on a website requesting prompt notification should a release of hazardous materials occur, so that quick cleanup actions can be taken, storm water drains covered as needed.	Web-site information to be updated periodically. Public Works activities will be reviewed under on-going NEPA review activities (Records of Environmental Consideration (RECs) and Environmental Assessments for compliance with MS4 storm water regulations.
PE03 Revised	Post Notices via website/email	ESHO	Job	No illicit stormwater incidents occurred during past year requiring that a special notice be posted on the website or an email be sent to workforce.	Annual environmental compliance training provided to laboratory and industrial proponents will include emphasis about permit restrictions concerning discharges to drainage systems.
Revised					
Revised					

Revised					

1a. Additions

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
PP01	Establish an NPDES Storm Water Coordinator	ESHO/Terry Garrahan	Appointment	Appointment completed upon submission of application. Mr. Garrahan has been responsible for submitting NPDES related reports to State and EPA regulators.	Update appointments as needed.
Revised					
	Meet with local conservation commission	ESHO	Projects	Construction projects are reviewed to ensure proper coordination with the Local Natick Conservation Commission. Environmental Assessment (EAs) are posted on a website that can be viewed by the public. Local town officials are notified about EAs being available.	The facility will continue to coordinate as required with the Natick Conservation Commission and notify/make available E As for public review.
Revised					
	Training	ESHO/Terry Garrahan		NPDES Coordinator has received environmental compliance training. The facility conducted annual compliance training for personnel handling hazardous materials. Part of the training the instructor emphasizes the need to take prompt action to prevent releases to the storm water system and comply with permit requirements.	Annual compliance training will continue and regulatory requirements concerning discharge permit prohibitions will be taught to facility personnel responsible for hazardous materials handling.
Revised					
Revised					
Revised					
Revised					

2a. Additions

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
ID01	Update storm water drain system map.	PWD/ESHO	Updated Map	Site plan updated to include latest oil water separator installation.	Stormwater maps will updated to include latest design changes.
Revised					
ID02	Detect and address non-stormwater discharges	ESHO	Number outfalls inspected.	All eight outfalls have been inspected during the past year, and no illicit discharges detected.	Perform annual, dry-weather inspections of stormwater outfalls. Oil Water Separators have alarm systems installed, alarm conditions will be responded to promptly.
Revised					
ID04	Illicit discharge/illegal dumping hotline	ESHO	Establish Hotline	Spill Prevention response plans and emergency notification cards have contact numbers so that HAZMAT Team Personnel and/or Coordination with outside contractor can be made to respond rapidly to an incident. Notification requirements are an integral part if our HAZMAT planning documents.	Routine update of our response plans will include emergency contact numbers needed to help prevent illicit discharges and dumping in the stormwater system.
Revised					
ID05	Prohibit non-stormwater discharges into the stormwater system	ESHO	Educated offenders	During the past year, no offenders have needed to be educated, periodic discharge inspections indicate compliance.	Educate offenders and take corrective actions immediately to prevent recurrences of a prohibited discharge into the stormwater system.
Revised					
Revised					

Revised					

3a. Additions

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
CS01	Construction Site Stormwater Control	ESHO/PWD	Jobs	T-25 Storm water Upgrade Project was completed. An Environmental Assessment (EA) is posted on the ESHO Website available for public review. Project was coordinated with the Local Natick Conservation Commission. Construction for a new Thermal Test Facility (TFT) should start this year. The TFT EA is also available on our website. New construction was completed installing curbing along road behind building #42 to minimize potential of releases to the lake.	National Environmental Policy (NEPA) documents such as EAs and Record of Environmental Considerations (RECs) will be prepared for construction projects and coordination with the Natick Conservation Commission as required.
Revised					
Revised					
Revised					
Revised					

Revised					
Revised					

4a. Additions

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
CS01	Post-Construction Storm water Management	ESHO/USACE/ESHO	Follow-up inspections	Oil water separator (OWS) which have been installed throughout the installation have been monitored by ESHO and contractor support.	Contractors/ESHO will continue to inspect OWS at least annual, alarm system included.
Revised					
Revised					
Revised					
Revised					

Revised					
Revised					

5a. Additions

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
GH01	Pesticide Management Plan	ESHO/PWD	Annual Update	The Pesticide Management Plan (PMP) is reviewed often. Usage quantities are recorded, and show reduction of overall amount. The PMP requires pesticide minimization and applications to be performed by licensed/trained individuals. The facility inputs data into a database to track applicator licenses as to whether they are current.	Maintain an updated PMP and ensure that applicator's licenses are current and program coordinators receive pesticide refresher training. Facility will continue to be pro-active and implement pollution prevention measures to minimize chemical usage. Continue to follow DoD mandated program requiring compliance with applicable federal and state regulations.
Revised					
GH02	Maintenance of Oil Water Separators (OWS)	ESHO/PWD	Annual Inspections	All OWS have been inspected during the past year.	All OWS were inspected and have been adequately maintained.
Revised					
GH03	Inspect and clean out catch basin	ESHO/PWD	Annual Inspection	Catch basin were inspected during past year and cleaned out as necessary.	Annual inspection and clean out as necessary.
Revised					
GH04	Sweep streets and parking areas	PWD	Annually parking lot street sweep.	Parking lots and streets were swept at least once during the past year.	Annual street sweep will be performed.
Revised					
Revised					
Revised					

6a. Additions

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) *<<if applicable>>*

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Not applicable.

Part IV. Summary of Information Collected and Analyzed

No additional information to report.

Part V. Program Outputs & Accomplishments (OPTIONAL) –

Programmatic

Stormwater management position created/staffed	(y/n)	
Annual program budget/expenditures	($)	

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	
Stormwater management committee established	(y/n)	
Stream teams established or supported	(# or y/n)	
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	Y
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	
▪ community participation	(%)	
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	

Legal/Regulatory

	In Place Prior to Phase II	Under Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "**X**")				
▪ Illicit Discharge Detection & Elimination				
▪ Erosion & Sediment Control				
▪ Post-Development Stormwater Management				
Accompanying Regulation Status (indicate with "**X**")				

▪ Illicit Discharge Detection & Elimination				
▪ Erosion & Sediment Control				
▪ Post-Development Stormwater Management				

Mapping and Illicit Discharges

Outfall mapping complete	(%)	
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened	(# or %)	
Illicit discharges identified	(#)	
Illicit connections removed	(#) (est. gpd)	
% of population on sewer	(%)	
% of population on septic systems	(%)	

Construction

Number of construction starts (>1-acre)	(#)	
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	
Site inspections completed	(# or %)	
Tickets/Stop work orders issued	(# or %)	
Fines collected	(# and $)	
Complaints/concerns received from public	(#)	

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	
Site inspections completed	(# or %)	
Estimated volume of stormwater recharged	(gpy)	

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	
Total number of structures cleaned	(#)	
Storm drain cleaned	(LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		
Cost of screenings disposal	($)	

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	
Qty. of sand/debris collected by sweeping	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	
Cost of sweepings disposal	($)	
Vacuum street sweepers purchased/leased	(#)	
Vacuum street sweepers specified in contracts	(y/n)	

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	

▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	

Anti-/De-Icing products and ratios	% NaCl % $CaCl_2$ % $MgCl_2$ % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized	(y/n)	
Manual control spreaders used	(y/n)	
Automatic or Zero-velocity spreaders used	(y/n)	
Estimated net reduction in typical year salt application	(lbs. or %)	
Salt pile(s) covered in storage shed(s)	(y/n)	
Storage shed(s) in design or under construction	(y/n)	