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**TDEC Small MS4 Annual Report
2nd Year, July 1, 2004 – June, 30, 2005
Report due September 30, 2005**

Permittee Tracking No. TNS: 075779
Permittee Name: Town of Smyrna

I. Status of Compliance with Permit Conditions (5.4.1) Six Minimum Measures, BMPs, and Milestones

A. Status of Compliance with BMP Milestones (by 6/30/05)

BMP Code	Milestone	Yes	No	Date completed or If “No”, Date to be completed	Amended/ Replaced BMP	Amended/ Replaced Milestone	An “Amended” Response is described below
1A	Year 2	X		Ongoing, Sept. – June 2005			
1B	Year 2	X		Jan. 2005, Ongoing			
1C	Year 2	X		Feb. 2005			
1D	Year 2	X		Feb. – May 2005			
2A	Year 2	X		Nov. 2004; Jan. 2005 (approved)			
2B	Year 2	X		Nov. 2004; Jan. 2005 (approved)			
2C	Year 2	X		Sept. 2005			
2D	Year 2		X	Nov. 2005		X	X
3A	Year 2	X		Nov. 2004; Jan. 2005 (approved)			
3B	Year 2		X	June 2006	X	X	X
3C	Year 2	X		May 2005			
3D	Year 2		X	Feb. 2006		X	X
4A	Year 2	X		Nov. 2004; Jan. 2005 (approved)			
4B	Year 2	X		Nov. 2004; Jan. 2005 (approved)			
4C	Year 2	X		Fall 2004			
4D	Year 2	X		Sept. 2004			
4E	Year 2	X		Nov. 2004; Jan. 2005 (approved)			
5A	Year 2	X		Nov. 2004; Jan. 2005 (approved)			
5B	Year 2	X		Nov. 2004; Jan. 2005 (approved)			
5C	Year 2	X		Fall 2004			
5D	Year 2		X	October 2005		X	X
6A	Year 2	X		Jan. 2005, Ongoing			
6B	Year 2	X		Feb. 2005			
6C	Year 2	X		Mar. 2005, Ongoing			

B. Status of Compliance for amended and replaced BMPs

BMP Code	Milestone	Milestone Description	Yes	No	Date completed or If “No”, Date to be completed
2D	June 2005	Involve Community Service Work Program in stream cleanup program.		X	November 2005 (SWM must be trained in CSWP)
3B	June 2005	Screen 20% of storm sewer outfalls and coordinate with inventory mapping effort.		X	June 2006
3D	June 2005	Inventory and mapping 50% of storm water system and set up database.		X	Feb. 2006 (depends on workload of GIS)
5D	June 2005	SWAC develops administrative policies and structural maintenance requirements.		X	October 2005

BMP Code	Explanation for “NO” Response
2D	SWM staff must first take Community Service Work Program training then water levels in streams need to be at their lowest (i.e. Nov.) when it is safest to work in stream. If bank work is to be done Nov. will be best since leaves will be off of plants enabling litter to be seen and retrieved more effectively.
3B	Outfall coverage had not reached 20% minimum requirement and a grease trap receptacle survey looked more achievable and Rutherford County was not monitoring them at all. All grease receptacles were located and placed onto database. Inspection forms and NOV letters were formulated, while two NOVs have been served because of illicit discharges to streams and exposed surfaces. The SWM staff will initiate an outfall survey, coordinated with the GIS database (see 3D) once coverage level reaches 20%.
3D	The Town of Smyrna GIS Department (2 staff members) has been locating all outfalls using GPS units then entering these data into a computerized base since May 2004. To date, 4 square miles of a total of 28 square miles (~15%) has been completed.
5D	Using excerpts from TDEC’s Erosion and Sediment Control Handbook, Vegetative Practices and Structural Practices chapters, the Town of Smyrna will assemble and have approved by the SWAC a mini-guidance manual that will be mailed with introductory letter to owners of detention basins.

II. Assessment of the appropriateness of identified BMPs (5.4.1)

BMP Code	Short Title	Inappropriate	Minimal	Good	Superior	
1A	Develop posters, mail-outs, radio ads, and include in newsletter and newspapers.				X	
1B	Enhance web page with information as it develops in committee meetings, agenda, and SWM ordinance.				X	
1C	Create database system for response and corrective action.				X	
1D	Set-up one public storm water seminar/yr				X	
2A	Committee to develop SWM Ordinance for Town Council action (DEC. 2004)				X	
2B	Establish SWM Ordinance enforcement procedures.				X	
2C	Annual report meeting.				X	
2D	Involve Community Service Work Program in stream cleanup program.					
3A	SWM Ordinance approved by Planning Commission and adopted by Town Council (DEC. 2004)				X	
3B	Screen 20% of outfalls and coordinate with inventory mapping effort.				X	
3B	Inventory and inspect all grease receptacles, sending NOV's to illicit dischargers.				X	
3C	Develop database for reporting and identifying recurring problem areas on Hotline.				X	
3D	Inventory and mapping 50% of storm water system and set up database.				X	
4A	Planning Commission reviews SWM Ordinance and recommends adoption to Town Council (DEC. 2004)				X	
4B	Planning Commission reviews SWM Ordinance procedures and recommends adoption to Town Council (DEC. 2004)				X	
4C	SWAC approves use of TDEC's Erosion and Sediment Control Handbook as manual.				X	
4D	Implement Construction Site Inspection Program with monthly inspections of high priority land disturbance activities.				X	
4E	Planning Commission reviews SWM Ordinance enforcement program and recommends adoption to Town Council (DEC. 2004)				X	

BMP Code	Short Title	Inappropriate	Minimal	Good	Superior	
5A	Planning Commission reviews SWM Ordinance and recommends adoption to Town Council (DEC. 2004)				X	
5B	Planning Commission reviews SWM Ordinance procedures and recommends adoption to Town Council (DEC. 2004)				X	
5C	SWAC approves use of TDEC's Erosion and Sediment Control Handbook as manual.				X	
5D	SWAC develops administrative policies and structural maintenance requirements.				X	
6A	Develop and implement SOP/MPPP for facilities.				X	
6B	Implement MPPP for Public Works				X	
6C	Implement training program for all departments				X	

III. Progress with respect to MEP (Maximum Extent Practicable)and Measurable Goals (5.4.1)

A. MEP

Of the [24] BMPs that comprise our storm water management program in the six minimum measures, we have accomplished Year 2 milestones for [20 of 24]. This does represent substantial progress in achieving the statutory goal of reducing the discharge of pollutants to the MEP.

B. Measurable Goals

Of the [24] BMPs shown above, we have accomplished Year 2 milestones for [20 of 24]. This represents progress towards achieving the measurable goals identified in our original NOI and in this annual report. For the measurable parameters/goals we have been able to track for this past year, the measurements are recorded in Part IX.

Signed

Dated

Printed Name and Title

Mayor, Town of Smyrna

IV. Results of Information Collected and Analyzed (5.4.2)

Parameter	Relevant BMP or Purpose of Info.	Conclusions
Monitoring is not in NOI, so it is not a required element of this annual report.		

V. Planned Activities and Proposed Changes to the SWMP (5.4.3 & 5.4.4)

A. Storm water activities planned for next reporting cycle (YR-3)

BMP Code	Title / Name of BMP	Milestone for next reporting cycle
1A	Organize civic groups for Spring '06/Fall '06 cleanup programs	March 2006
1B	Create database reports accessible from web page.	October 2005
1C	Develop reporting system to generate annual report.	October 2005
1D	Cable TV Storm Water Committee meetings.	October 2005
2A	Semi-annual meetings to review SWM ordinance.	January 2006
2B	Set hearings and appeals process for violations.	January 2006
2C	Annual report meeting.	June 2006
2D	Civic groups, churches, Scouts, ROTC, industries do work days	March 2006
3A	Revise existing SWM ordinance to eliminate contradictions.	March 2006
3B	Screen 30% of outfalls and coordinate with inventory mapping.	October 2005
3C	Track and respond to calls / update database.	January 2006
3D	Inventory and mapping 100% of storm water system and set up database.	March 2006
4A	Revise existing SWM ordinance to eliminate contradictions.	March 2006
4B	Implement procedures and develop database for tracking, recording, and reporting (BY JAN. 2006)	January 2006
4C	Publish manual and make copies available to engineers and site developers prior to permit issuance (BY JAN. 2006)	January 2006
4D	Establish routine construction site inspection program for all sites (BY JAN. 2006)	January 2006
4E	Storm Water Administrative Board to conduct hearings on violations and implement Enforcement Program (BY JAN. 2006)	January 2006
5A	Revise existing SWM ordinance to eliminate contradictions.	March 2006
5B	Implement post-construction inspection procedures and develop database for tracking, recording, and reporting (BY JAN. 2006)	January 2006
5C	Publish manual and make copies available to engineers and site developers prior to permit issuance (BY JAN. 2006)	January 2006
5D	Publish manual and make available to public, property owners, developers, and engineers (BY JAN. 2006)	January 2006
6A	Review, revise, and update SWM SOP, as needed.	January 2006
6B	Review, revise, and update MPPP, as needed.	March 2006
6C	Annual MPPP refresher training and updates.	June 2006

Additional, significant activities planned for the next reporting cycle are noted below.

Activity	Summary Description	Purpose
Assist the Project WET effort	Promote involvement of teachers & administrators in Project WET	To have as many teachers in Town of Smyrna schools participate in the Project WET training workshops ASAP
Assist in post Project WET efforts	Coordinate with all school principals & designated teachers to develop during & after school activities/projects	To heighten the awareness & ownership of water quality & ecologic preservation of as many teachers, administrators, students, & parents as possible
Provide water quality assistance to Project WET	Serve as guest speaker in and out of classrooms	To increase the value of the course work to the students
Stream surveys	Walk/navigate Stewart Creek & one tributary to inventory all illicit discharges, unstable banks, and debris collection areas	To learn where remediate actions need to occur first.
Stream cleanout	Streets Dept.-Chipper Service collects debris lodged against stream bridges and culverts surveyed by the SWM staff	To minimize the amount debris collecting in streams, thereby minimizing likelihood of flooding and bank erosion
Build corporate partnerships	Reach out to Nissan, Wal-Mart, airport authority, et al.	To improve relations between entities, improve public outreach, & to develop BMPs to reduce impact to 303(d) listed streams
Facilitate annual waterfests	In partnership with SRWA, TDEC, TWRA, MTSU, Mid-TN Cavers, facilitate a daylong gathering of presentations & demonstrations for all citizens	To improve their understanding of what needs to be done as well as heighten their participation level in remediative actions
Build MS4 partnerships	Host and partake in quarterly MS4 meetings	To improve interaction, generate projects, solve issues
Build citizen partnerships	Reach to all citizens through a wide array of media & venues	To improve their understanding of what needs to be done as well as heighten their participation level in remediative actions
Establish volunteer monitoring efforts	Through the SRWA, bring students to the streams to perform water quality monitoring	To heighten the awareness & ownership of water quality & ecologic preservation of students, teachers, administrators, & parents
Establish outdoor classrooms	Work with all schools/PTOs to learn what problems lie along greenway & how schools can adopt the required remediative action as projects	To heighten the awareness & ownership of water quality & ecologic preservation of students, teachers, administrators, & parents

Activity	Summary Description	Purpose
Establish educational signage along greenways	Work with Parks Dept. to fund & establish a network of educational signage modeled after Cane Creek City Park in Cookeville	To heighten the awareness & ownership of water quality & ecologic preservation of students, teachers, administrators, & parents
Establish outdoor quarterly forums	Work with Parks & environmental & conservation agencies to establish a series of outdoor presentations for the public along our greenways	To heighten the awareness & ownership of water quality & ecologic preservation of all citizens whether young or old, tall or small
Float trips	Continue to lead citizen float trips on Stewart and tributaries	To heighten the awareness & ownership of water quality & ecologic preservation of all citizens whether young or old, tall or small
Establish storm drain stenciling program	Work with citizen group, schools, churches, et al to establish a town-wide effort to stencil/label all storm drains	To heighten the awareness & ownership of water quality & ecologic preservation of all citizens whether young or old, tall or small
Detention basin inspections	Inspect all detention basins for proper upkeep & function on a quarterly basis	To heighten the awareness of owners to inspect & maintain detention basins; reduce debris & pollutants reaching streams
Litter cleanup	Collect all litter on federal, state, & local roadway medians, shoulders & ROWs by Rutherford County Community Service Work Program	Reduce amount of litter reaching streams
Street sweeping	Collect all litter on federal, state, & local roadway medians & paved shoulders by American Sweeping, Inc.	Reduce amount of litter reaching streams

B. Proposed changes to storm water management program

Change to Program	Summary Description	Rationale
None, at this time. Just keep doing the best we can.		

VI. Water Quality Controls for Discharges to Impaired Waterbodies (3.1.2)

Stream Name	Pollutants	Priority BMP 1	Priority BMP 2
Olive Br. TN05130203 010-0200	Siltation Habitat Alteration	Construction Site Sediment Control Measures (silt fences, straw bales, proper entry/exits, check dams, sediment basins, seed & straw)	Education / Outreach
Harts Br. TN 05130203 010-0300	Siltation Habitat Alteration	Construction Site Sediment Control Measures (silt fences, straw bales, proper entry/exits, check dams, sediment basins, seed & straw)	Education / Outreach
Rock Springs Br. TN05130203 010-0310	Siltation Habitat Alteration	Construction Site Sediment Control Measures (silt fences, straw bales, proper entry/exits, check dams, sediment basins, seed & straw)	Education / Outreach
Stewart Cr. TN05130203 010-1000	Siltation Habitat Alteration	Construction Site Sediment Control Measures (silt fences, straw bales, proper entry/exits, check dams, sediment basins, seed & straw)	Education / Outreach

Permit Requirement	Waterbody Name Pollutant of Concern	Waterbody Name Pollutant of Concern
EPA has approved TDEC to promulgate siltation/habitat alteration TMDLs	Olive Br., Harts Br., Rock Springs Br., and Stewart Creek	Siltation/habitat alteration in all four waterbodies

VII. Protection of Listed Threatened or Endangered Species (3.2)

Evaluation criteria	Yes/No	Notes
Vascular Plant*		
Ammoselinum popei / Pope's Sand-parsley	Yes	Threatened
Arabis hirsuta / Western Hairy Rockcress	Yes	Threatened
Arabis perstellata / Braun's Rockcress	Yes	Federally listed as Endangered
Astragalus tennesseensis / Tennessee Milk-vetch	Yes	Special Concern
Leavenworthia exigua / Glade-cress	Yes	Special Concern
Neviusia alabamensis / Alabama Snow-wreath	Yes	Threatened
Phlox bifida / Glade Cleft Phlox	Yes	Threatened
Schoenolirion croceum / Yellow Sunnybell	Yes	Threatened
Talinum calcaricum / Limestone Fame-flower	Yes	Special Concern
Vertebrate Animal*		
Chondestes grammacus / Lark Sparrow	Yes	Threatened

* This table was taken directly, without change, from the TDEC-Division of Natural Heritage website, Smyrna quadrangle.

Signed

Dated

Printed Name and Title

Mayor, Town of Smyrna

VIII. Explanation of Amended or Replaced BMPs (from Part I)

BMP Code:	BMP:
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IX. Tracking of measurable goals

BMP Code	BMP Title	Measurable parameter	Result	Goal
NAY	Not applicable yet			