



TDEC Small MS4 Annual Report Year One (1)

for



EAST TENNESSEE STATE UNIVERSITY

from

July 1st, 2010 through June 30th, 2011
Report Due September 30th, 2010

Permit Tracking No. TNS075370





Public Works Department
Stormwater Division
PO Box 2150
209 Water Street
Johnson City, TN 37605-2150

September 20, 2011

Mr. Brown Patton
Division of Water Pollution Control
Tennessee Department of
Environment and Conservation
Johnson City Field Office
2305 Silverdale Road
Johnson City, TN 37601

SUBJECT: Storm Water Permit Report, Year 1
TNS075370, Small Municipal Separate Storm Sewer System

Dear Mr. Patton:

Please find enclosed the annual storm water report for the City of Johnson City. This report is the first annual for the NPDES permit issued to the City on April 27, 2011. This fulfills the reporting requirements as indicated in the permit on page 26, Section 5.4.

If you have any questions or require any additional information please do not hesitate to contact me (423) 975-2854.

Sincerely,

Andrew Best, PE
Stormwater Manager

Enclosures

CC: Phil Pindzola, Director of Public Works

Introduction / Summary

On April 27, 2011 the City of Johnson City and East Tennessee State University (ETSU) were issued the second version of the NPDES municipal separate storm sewer systems (MS4) phase II permit from the Tennessee Department of Environment and Conservation (TDEC). This permit regulates discharges from the municipal storm sewer system into the waters of the state Tennessee. The permit requires the City to perform six (6) minimum control measures (MCM) that must be completed during the permit cycle. During this first (1st) cycle of the second (2nd) five (5) year permit, the required MCM's were met by utilizing and revising approved best management practices (BMP's).

The City's goal for this first (1st) permit cycle was to continue the self sustaining stormwater management program. This program focused on fulfilling the intent of the NPDES permit and improving areas with localized flooding. To accomplish the goal of a self sustaining program the City has done the following through since 2003:

- Formed a twelve member Stormwater Advisory Task Force that developed a five-year stormwater management plan.
- Developed ordinances for controlling sediment runoff and illicit discharges.
- Implemented a stormwater utility fee to ensure long term source of funding.
- Hired additional staff dedicated to stormwater and erosion control.
- Implemented regular in-house training and education programs preformed by in-house staff, private consultants, and the State of Tennessee personnel.
- Identified impaired waters and determined methods to improve those waters.
- Purchased and implemented computer software (i.e. ASIST) for tracking NPDES Program.
- Purchased and implemented code compliance computer software (i.e. Blue Prince) for tracking stormwater related issues (e.g. Construction Sites, Outfalls, Complaints, Post-construction facilities, BMP's).
- Developing post construction regulations and manual.
- Developed a five-year TMDL plan for siltation and escherichia coli (E. coli) in area streams.
- Implemented BMP's to improve area streams.
- Public education regarding proper construction practices and use(s) of BMP's.
- Completed stream outfall mapping and visual survey;
- Updated website for public education purposes.

The City continues to require Notices of Coverage (NOC's) from the Tennessee Department of Environment and Conservation (TDEC) for all construction projects prior to the issuance of a city permit. The City also requires preconstruction meeting for projects that drainage to an impaired waterbody or from hotspots. We have successfully used the administrative process for the enforcement of the stormwater ordinances, resulting in mandated and/or negotiated best management practices (BMP's) that meet the city requirements.

This annual report reflects the City being in full permit compliance with required year one (1) BMP's. The City is striving to develop a complete stormwater management program that will meet the needs of the citizens and create a cleaner environment. The City currently has a stormwater program manager to oversee the entire program under the direction of the Public Works Director. The City also has a stormwater inspector whose sole purpose is to inspect for erosion prevention and sediment control issues and a stormwater GIS Technician to ensure that the mapping and database systems are up to date. These efforts are supplemented by a management team including code enforcement and engineering, an environmental specialist, an increased level of inspection staff, plan reviewers, drafting/GIS staff, public relations specialists, as well as community action and volunteer groups. This team has been working on the implementation of a community wide stormwater management program that addresses water quality and quantity issues.



Tennessee Department of Environment and Conservation
 Division of Water Pollution Control
 Enforcement and Compliance Section
 L&C Annex, 6th Floor, 401 Church Street
 Nashville, TN 37243
 (615) 532-0625

Small Municipal Separate Storm Sewer System (MS4) Annual Report

1. MS4 INFORMATION

City of Johnson City NPDES Tracking No. TNS075370

Name of MS4

Andrew Best

Name of Contact Person

423-975-2854

Telephone (including area code)

P.O. Box 2150

Mailing Address

Johnson City

TN

37605

City

State

ZIP code

What is the current population of your MS4?

What is the reporting period for this annual report? From 7-1-10 to 6-30-11

2. PROTECTION OF STATE OR FEDERALLY LISTED SPECIES

A. Are any of the MS4 discharges or discharge-related activities likely to jeopardize any state or federally listed species (**Part 3, Special Conditions, General Permit for Phase II MS4s**) Yes No

B. Please attach the determination of the effect of the MS4 discharges on state or federally listed species per sub-part 3.2.1

3. WATER QUALITY PRIORITIES

A. Does your MS4 discharge to waters listed as impaired on the state 303(d) list? Yes No

B. If yes, identify each impaired water, the impairment cause(s), whether a TMDL has been approved by EPA for each, and whether the TMDL identifies your MS4 as a source of the impairment.

Waterbody I.D. #	Cause/TMDL Priority	Approved TMDL		MS4 Assigned to WLA	
Boone Reservoir (TN06010102006-1000)	PCB / Chlordane - Natural Attenuation	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Boones Creek (TN06010103006-1000)	Nitrate+Nitrite L, Loss of biological integrity due to siltation NA, Alteration in stream-side or littoral vegetative cover M, Escherichia coli NA - Discharges from MS4 area Pasture Grazing, Land Development	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Small Municipal Separate Storm Sewer System (MS4) Annual Report

Brush Creek (TN06010103009-1000)	Nitrate+Nitrite L, Loss of biological integrity due to siltation NA, Other Anthropogenic Habitat Alterations M, Escherichia coli H - Discharges from MS4 area	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Carroll Creek (TN06010103006 – 0100)	Nitrate + Nitrite L, Loss of biological integrity due to siltation NA, Alteration in stream-side or littoral vegetative cover M, Escherichia coli H - Discharges from MS4 area Pasture Grazing	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Cash Hollow Creek (TN06010103635 – 0100)	Habitat loss due to alteration in stream-side or littoral vegetative cover M, Escherichia coli NA - Discharges from MS4 area	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Catbird Creek (TN06010103046 – 0100)	Loss of biological integrity due to siltation M, - Discharges from MS4 area	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Cedar Creek (TN06010102702 – 1000)	Loss of biological integrity due to siltation M, Habitat loss due to alteration in stream-side or littoral vegetative cover M, Escherichia coli H - Discharges from MS4 area Pasture Grazing	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Cobb Creek (TN06010103635 – 0200)	Alteration in stream-side or littoral vegetative cover M, Loss of biological integrity due to siltation NA, - Discharges from MS4 area	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Knob Creek (TN06010103635 – 1000)	Alteration in stream-side or littoral vegetative cover M, Nitrate + Nitrite L, Loss of biological integrity due to siltation NA, Escherichia coli NA - Discharges from MS4 area, Pasture Grazing	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Small Municipal Separate Storm Sewer System (MS4) Annual Report

Reedy Creek
(TN06010103061 – 1000)

Nitrates L, Physical Substrate Yes No Yes No
 Habitat Alterations M, Loss of biological integrity due to siltation NA, Escherichia coli H - Discharges from MS4 area, Pasture Grazing, Channelization

Sinking Creek
(TN06010103046 – 1000)

Escherichia coli NA - Discharges from MS4 area, Pasture Grazing Yes No Yes No

C. What specific sources of these pollutants of concern are you targeting? Sediment, failing septic systems

D. Do you have discharges to any Exceptional TN Waters (ETWs) or Outstanding National Resource Waters (ONRWS)? Yes No

E. Are you implementing additional specific provisions to ensure the continued integrity of ETWs or ONRWS located within your jurisdiction? Yes No

4. PUBLIC EDUCATION AND PUBLIC PARTICIPATION

A. Is your public education program targeting specific pollutants and sources of those pollutants? Yes No

B. If yes, what are the specific causes, sources and/or pollutants addressed by your public education program?
Erosion Prevention and Sediment Control, trash, automotive

C. Note specific successful outcome(s) (NOT tasks, events, publications) fully or partially attributable to your public education program during this reporting period. Educated 414 children, 38 adults and had 17 total programs with an Enviro-scape exhibit at Hands-On Regional Museum

D. Do you have an advisory committee or other body comprised of the public and other stakeholders that provides regular input on your stormwater program? Yes No

E. Provide a summary of all public meetings required by the permit. Regularly scheduled City Commission Meetings on the first (1st) and third (3rd) Thursday of each month, regularly scheduled planning commission meetings on the second (2nd) Tuesday of each month, Public Hearings are held as required by the permit with the public notices kept on file.

5. CODES AND ORDINANCES REVIEW AND UPDATE

A. Is a completed copy of the EPA Water Quality Scorecard submitted with this report? Yes No

B. Include status of implementation of code, ordinance and/or policy revisions associated with permanent stormwater management. This item is not required at this point in the permit.

6. CONSTRUCTION

A. Do you have an ordinance or adopted policies stipulating:
 Erosion and sediment control requirements? Yes No
 Other construction waste control requirements? Yes No
 Requirement to submit construction plans for review? Yes No
 MS4 enforcement authority? Yes No

B. How many active construction sites disturbing at least one acre were there in your jurisdiction this reporting period? 32

C. How many of these active sites did you inspect this reporting period? All

Small Municipal Separate Storm Sewer System (MS4) Annual Report

- D. On average, how many times each, or with what frequency, were these sites inspected (e.g., weekly, monthly, etc.)? Monthly and after significant rainfall events
- E. Do you prioritize certain construction sites for more frequent inspections? Yes No
If Yes, based on what criteria? New construction sites are inspected frequently to ensure that they are compliant. If the site is in good shape, the site is inspected monthly and after a significant rainfall event.

7. ILLICIT DISCHARGE ELIMINATION

- A. Have you completed a map of all outfalls and receiving waters of your storm sewer system? Yes No
- B. Have you completed a map of all storm drain pipes of storm sewer system? Yes No
- C. How many outfalls have you identified in your system? 641
- D. How many of these outfalls have been screened for dry weather discharges? 100%
- E. How many of these have been screened more than once? 274
- F. What is your frequency for screening outfalls for illicit discharges? once every 5 years
- G. Do you have an ordinance that effectively prohibits illicit discharges? Yes No
- H. During this reporting period, how many illicit discharges/illegal connections have you discovered (or been reported to you)? 3
- I. Of those illicit discharges/illegal connections that have been discovered or reported, how many have been eliminated? 3

8. STORMWATER MANAGEMENT FOR MUNICIPAL OPERATIONS

- A. Have stormwater pollution prevention plans (or an equivalent plan) been developed for:
- All parks, ball fields and other recreational facilities Yes No
 - All municipal turf grass/landscape management activities Yes No
 - All municipal vehicle fueling, operation and maintenance activities Yes No
 - All municipal maintenance yards Yes No
 - All municipal waste handling and disposal areas Yes No
- B. Are stormwater inspections conducted at these facilities? Yes No
1. If Yes, at what frequency are inspections conducted? Per the permit we are to inspect each operation once (1) in a 5 year period
- C. Have standard operating procedures or BMPs been developed for all MS4 field activities? (e.g., road repairs, catch basin cleaning, landscape management, etc.) Yes No
- D. Do you have a prioritization system for storm sewer system and permanent BMP inspections? Yes No
- E. On average, how frequently are catch basins and other inline treatment systems inspected? 900/month
- F. On average, how frequently are catch basins and other inline treatment systems cleaned out/maintained? 225/month
- G. Do municipal employees in all relevant positions and departments receive comprehensive training on stormwater management? Yes No
- H. If yes, do you also provide regular updates and refreshers? Yes No
- If so, how frequently and/or under what circumstances? The City is a member of the NE Tennessee Regional Stormwater Planning Group. This group contracts AMEC Earth and Environmental to conduct annual training seminars

9. PERMANENT STORMWATER CONTROLS

- A. Do you have an ordinance or other mechanism to require:
- Site plan reviews of all new and re-development projects? Yes No
 - Maintenance of stormwater management controls? Yes No
 - Retrofitting of existing BMPs with green infrastructure BMPs? Yes No

Small Municipal Separate Storm Sewer System (MS4) Annual Report

- B. What is the threshold for new/redevelopment stormwater plan review? (e.g., all projects, projects disturbing greater than one acre, etc.) Any grading 4,000 sf and greater must obtain a permit
- C. Have you implemented and enforced performance standards for permanent stormwater controls? Yes No
- D. Do these performance standards go beyond the requirements found in paragraph 4.2.5.2 and require that pre-development hydrology be met for:
- | | | |
|----------------------|------------------------------|--|
| Flow volumes | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Peak discharge rates | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Discharge frequency | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Flow duration | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
- E. Please provide the URL/reference where all permanent stormwater management standards can be found.
www.johnsoncitytn.org/index.php?page=document-center&path=Stormwater/BMP+Manual
- F. How many development and redevelopment project plans were reviewed for this reporting period? 27
- G. How many development and redevelopment project plans were approved? 27
- H. How many permanent stormwater management practices/facilities were inspected? 29
- I. How many were found to have inadequate maintenance? 2
- J. Of those, how many were notified and remedied within 30 days? (If window is different than 30 days, please specify) 2
- K. How many enforcement actions were taken that address inadequate maintenance? 0
- L. Do you use an electronic tool (e.g., GIS, database, spreadsheet) to track post-construction BMPs, inspections and maintenance? Yes No
- M. Do all municipal departments and/or staff (as relevant) have access to this tracking system? Yes No
- N. Has the MS4 developed a program to allow for incentive standards for redeveloped sites? Yes No
- O. How many maintenance agreements has the MS4 approved during the reporting period? 15

10. ENFORCEMENT

- A. Identify which of the following types of enforcement actions you used during the reporting period, indicate the number of actions, the minimum measure (e.g., construction, illicit discharge, permanent stormwater control) or note those for which you do not have authority:

Action	Construction	Permanent Stormwater Controls	Illicit Discharge	Authority?	
Notice of violation	# <u>5</u>	# <u>0</u>	# <u>2</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Administrative fines	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Stop Work Orders	# <u>2</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Civil penalties	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Criminal actions	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Administrative orders	# <u>0</u>	# <u>0</u>	# <u>0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Other _____	# _____	# _____	# <u>0</u>		

- B. Do you use an electronic tool (e.g., GIS, data base, spreadsheet) to track the locations, inspection results, and enforcement actions in your jurisdiction? Yes No

Small Municipal Separate Storm Sewer System (MS4) Annual Report

- C. What are the 3 most common types of violations documented during this reporting period? Mud in street/construction entrance not installed, Silt fence not initially installed properly, sediment basin/trap not installed initially or per the plan

11. PROGRAM RESOURCES

- A. What was your annual expenditure to implement the requirements of your MS4 NPDES permit and SWMP this past reporting period? Approximately \$500,000
- B. What is next year's budget for implementing the requirements of your MS4 NPDES permit and SWMP? \$ 875,000
- C. Do you have an independent financing mechanism for your stormwater program? Yes No
- D. If so, what is it/are they (e.g., stormwater fees), and what is the annual revenue derived from this mechanism?
 Source: Stormwater Utility Amount \$ 2,062,778
 Source: Amount \$ _____
- E. How many full time employees does your municipality devote to the stormwater program (specifically for implementing the stormwater program vs. municipal employees with other primary responsibilities that dovetail with stormwater issues)? 8
- F. Do you share program implementation responsibilities with any other entities? Yes No

Entity	Activity/Task/Responsibility	Your Oversight/Accountability Mechanism
East Tennessee State University (ETSU)	ETSU's responsibility is to assist with the public education	ETSU and the City meet on the minimum of a quarterly basis to ensure communication

12. EVALUATING/MEASURING PROGRESS

- A. What indicators do you use to evaluate the overall effectiveness of your Stormwater Management Program, how long have you been tracking them, and at what frequency? Note that these are not measurable goals for individual BMPs or tasks, but large-scale or long-term metrics for the overall program, such as in-stream macroinvertebrate community indices, measures of effective impervious cover in the watershed, indicators of in-stream hydrologic stability, etc.

Indicator	Began Tracking (year)	Frequency	Number of Locations
Example: E. coli	2003	Weekly April–September	20
None			

- B. Provide a summary of data (e.g., water quality information, performance data, modeling) collected in order to evaluate the performance of permanent stormwater controls installed throughout the system. This evaluation may include a comparison of current and past permanent stormwater control practices. _____

13. STORMWATER MANAGEMENT PROGRAM UPDATE

- A. Describe any changes to the MS4 program during the reporting period including but not limited to:

Changes adding (but not subtracting or replacing) components, controls or other requirements per **paragraph 4.4.2.a** of the permit. None

Changes to replace an ineffective or unfeasible BMP **per paragraph 4.4.2.b** of the permit. The City will stop participating in the TAB program (Statewide and Regional radio advertisements) because of the end of the program administration by the Tennessee Stormwater Association. Placing TV commercials on local public access and radio spots on ETSU student radio will replace the current TAB BMP 1A

Information (e.g. additional acreage, outfalls, BMPs) on program area expansion based on annexation or newly urbanized areas. The City has co-permitted with ETSU and is working with them on the new area

Changes to the program as required by the division. None

Small Municipal Separate Storm Sewer System (MS4) Annual Report

14. CERTIFICATION

This report must be signed by a ranking elected official or by a duly authorized representative of that person. See signatory requirements in sub-part 6.7.2 of the permit.

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

Printed Name and Title

Signature

Date

Annual reports must be submitted in accordance with the requirements of subpart 5.4. (Reporting) of the permit. Annual reports must be submitted to the appropriate Environmental Field Office (EFO) by September 30 of each calendar year, as shown in the table below:

EFO	Street Address	City	Zip Code	Telephone
Chattanooga	540 McCallie Avenue STE 550	Chattanooga	37402	(423) 634-5745
Columbia	1421 Hampshire Pike	Columbia	38401	(931) 380-3371
Cookeville	1221 South Willow Ave.	Cookeville	38506	(931) 432-4015
Jackson	1625 Hollywood Drive	Jackson	38305	(731) 512-1300
Johnson City	2305 Silverdale Road	Johnson City	37601	(423) 854-5400
Knoxville	3711 Middlebrook Pike	Knoxville	37921	(865) 594-6035
Memphis	8383 Wolf Lake Drive	Bartlett	38133	(901) 371-3000
Nashville	711 R S Gass Boulevard	Nashville	37216	(615) 687-7000

ATTACHMENTS

APPENDIX I

TMDL Plans

Total Maximum Daily Load (TMDL) Monitoring Plan

**for
Escherichia coli (E. coli)
In the
Watauga River (HUC 06010103)**

**Boones Creek, Cash Hollow Creek, Knob Creek,
Sinking Creek**

**from
July 1st, 2007 through June 30th, 2012**

Permit No. TNS075370

Revised December 12, 2007

City of Johnson City

**Andrew Best, P.E.
Stormwater Manager
Municipal and Safety Building
601 East Main Street
P.O. Box 2150
Johnson City, TN 37605-2150
Phone: 423-975-2854**



Background

On February 27, 2003, the City of Johnson City established a Municipal Separate Storm Sewer System (MS4) Phase II Stormwater Management Program under the regulatory authority of the National Pollutant Discharge Elimination System (NPDES) administered by TDEC. The City's MS4 Phase II operations are governed by the terms and conditions of this general NPDES permit, which became effective on February 28, 2003, and expires on February 26, 2008. In the NPDES permit, section 3.1 defines the responsibilities of the MS4 for "Discharges to Water Quality Impaired Waters". The minimum responsibility of the MS4 Phase II program is to: 1) determine if there are impaired waters within the jurisdiction of the MS4, 2) if so, determine if TMDL's have been established for the impaired waters, and 3) to establish a monitoring plan and controls with a concerted effort to reduce pollutants identified in the TMDL for the impaired waters.

Purpose

The purpose of this document is to comply with monitoring requirements associated with the Total Maximum Daily Load (TMDL) for E. coli in the Watauga River Watershed as described in NPDES Permit No. TNS075370, Section 3.1. The TMDL process establishes the maximum allowable loadings of pollutants for a waterbody that will allow the waterbody to maintain water quality standards. The TMDL may then be used to develop controls for reducing pollution from both point and nonpoint sources in order to restore and maintain the quality of water resources (USEPA, 1991).

TMDL Stream Summary

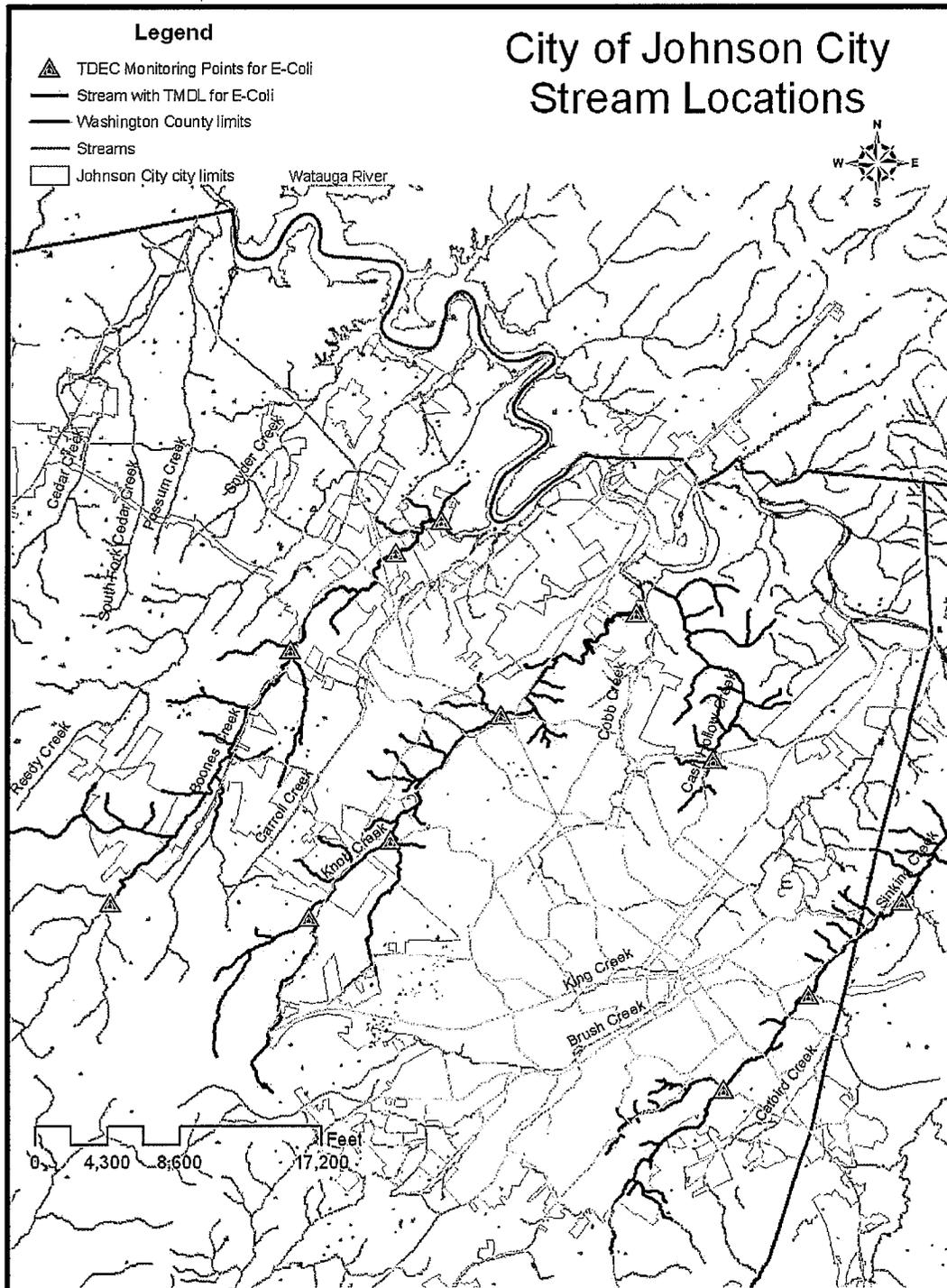
On March 28, 2006, TDEC published the TMDL for E. coli in the Watauga River Watershed (HUC 06010103). Impaired waterbodies addressed in the TMDL that are within the City of Johnson City's boundary are as follows:

Waterbody	Waterbody ID	Cause (pollutant)	Source (Pollutant)
Boones Creek	06010103006-1000	Nitrates/Loss of biological integrity due to siltation/Habitat loss due to alteration in stream-side or littoral vegetative cover. Escherichia coli	Discharges from MS4 area, Pasture Grazing Land Development
Cash Hollow Creek	06010103635-0100	Habitat loss due to alteration in streamside or littoral vegetative cover, Escherichia coli	Discharges from MS4 area
Knob Creek	06010103635-1000	Habitat loss due to alteration in streamside or littoral vegetative cover Nitrates/Loss of biological integrity due to siltation /Escherichia coli	Discharges from MS4 area Pasture Grazing
Sinking Creek	06010103046-1000	Escherichia coli	Discharges from MS4 area, Pasture Grazing

Table from TDEC TMDL March, 2006.

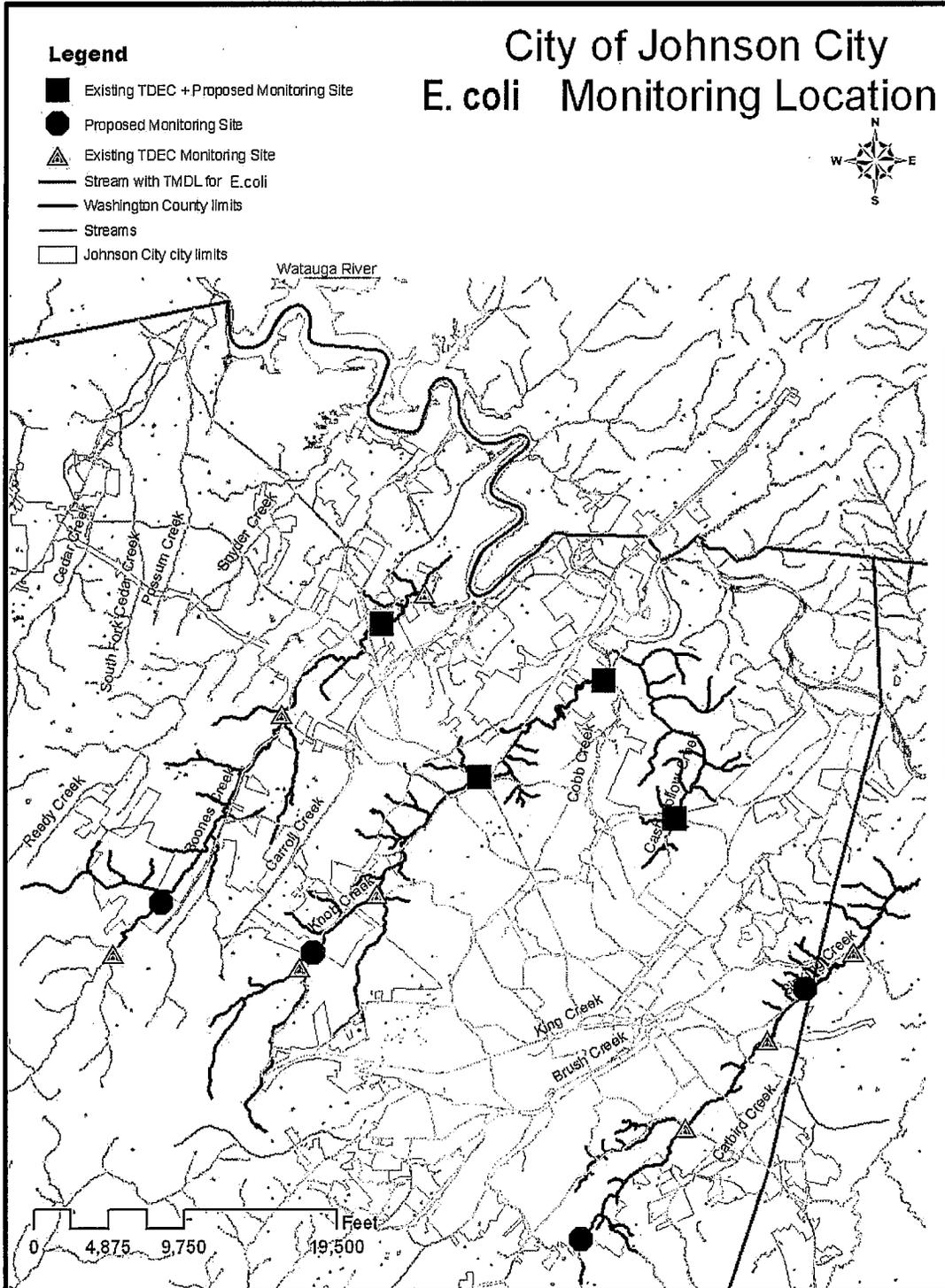
Prior to March 2006, 303d listed waters were identified for E. coli that did not have established TMDL's.

TMDL Stream Locations:



TMDL Monitoring Locations:

The City of Johnson City will monitor the following streams at the following locations:



Waterbody	Waterbody ID	ID	Monitoring Location	Latitude	Longitude
Boones Creek	06010103006-1000	BOCP1	Bentley Parc	36.3881°	-82.4071°
Boones Creek	06010103006-1000	BOCP2	Ridges Club Dr	36.3729°	-82.4294°
Cash Hollow Creek	06010103635-0100	CHCP1	E. Lakeview Dr.	36.3524°	-82.3447°
Knob Creek	06010103635-1000	KCP1	Austin Springs Treatment Plant	36.3767°	-82.3591°
Knob Creek	06010103635-1000	KCP2	N. Roan St.	36.3608°	-82.3869°
Knob Creek	06010103635-1000	KCP3	Claude Simmons Rd	36.3313°	-82.4244°
Sinking Creek	06010103046-1000	SCP1	King Springs Road	36.3217°	-82.3180°
Sinking Creek	06010103046-1000	SCP2	Sinking Creek Road at City Limits	36.2796°	-82.3685°

Coordinates datum - WGS 1984.

TMDL Monitoring Plan and Methodology

The City of Johnson City monitoring plan for the Watauga River E. coli TMDL will consist of the following:

1) Biological stream sampling

The City of Johnson City will perform E. coli stream sampling utilizing the Biological Analysis Method as set forth in the State of Tennessee standard guidelines and as detailed in TDEC's Quality System Standard Operating Procedure for Chemical and Bacteriological Sampling of Surface Water (March 2004 version or most recent version). This sampling will include the collection of five samples in a thirty-day period (to establish a geometric mean), a flow measurement and be performed within the months of June to September. Pathogen sampling must be performed on streams listed in the TMDL, with all locations listed in the TMDL sampled in a five-year period.

Monitoring Frequency:

A minimum of one sample per location listed in the TMDL will be collected, with all locations in the MS4 jurisdiction sampled by June 2012, or within a five year period.

2) Visual Stream Survey

A Visual Stream Survey and Impairment Inventory will be conducted on the listed segments and their tributaries at the locations listed in the TMDL and necessary outfalls to identify and prioritize impairment sources. TDEC recommends the use of the methodology outlined in the "*Stream Corridor Assessment Survey*" (SCA), published by the Watershed Restoration Division of the Maryland Department of Natural Resources, September 2001.

Monitoring Frequency:

All listed stream outfalls will be surveyed by June 2012, or within a five year period.

MS4 Modifications to this protocol:

- a) All Sections - Cell phones will be the substitute for radios. Left and right in the stream description will be from the reference of looking upstream.
- b) Sections 1.4 (Responsibilities of Survey Participants) and 1.5 (Volunteers) – Volunteer teams are presently not feasible due to the technical nature of the data that will be collected in addition to the SCA data. The City of Johnson City will continue to use the Maryland Protocol with trained City Staff to satisfy the requirements of this permit.
- c) Section 2.1 (Training) - A SCA training protocol will be developed either by the City or in cooperation with local MS4s.
- d) Section 2.2 (Safety) – Wearing waders and carrying a cell phone are considered required equipment. A back pack, drinking water, and rain gear are considered optional equipment.
- e) Section 2.3 (Respecting Private Property) – A public news release will be given instead of sending a letter to each individual property owner. Business cards will be given to property owners with questions and staff will direct any questions to the stormwater manager's office.
- f) Section 3.1 (Selecting a Watershed to Survey) - This section is not applicable, as TDEC has specified that the visual stream survey and impairment inventory must be performed throughout the subwatershed of each stream segment listed in the TMDL.
- g) Section 3.2 (Partnering with Watershed Stakeholder) - The City of Johnson City will cooperate with Tennessee governments, local governments and local agencies. Not the Maryland agencies listed in the protocol.

h) Section 3.3 (Maps & Geographical Information Systems) - Mobile GIS and electronic maps will be used instead of paper maps.

i) Section 3.4 (Survey Equipment) – The following list is the equipment that will be used during surveys.

Survey Crew Equipment

- Vehicles (2)
- Filled large water container (optional)
- Soap (wash hands after survey to reduce exposure to poison ivy - optional)

Survey Team Equipment

- Pen
- Tablet PC equipped with Trimble Terrasync and/or ESRI ArcPad and carrying bag (GIS and mapping information)
- Spare laptop battery
- GPS receiver for computer
- Cell phone
- Waterproof digital camera
- Site numbering board w/ extra dry-erase markers
- Tape measure
- First Aid Kit
- Business Cards
- Brush clippers and/or machete (optional)
- Bug spray and tick repellent (optional)
- Sunscreen (optional)

Survey Member Equipment

- City Hat
- Waders (Chest waders preferred)
- Proper Clothing (Pants required, long sleeve shirt suggested)
- Spare set of clothes in vehicle or office (optional)
- Filled water bottle (optional)
- Allergy or other medicines (optional)

j) Section 3.5 (Logistics) and 3.6 (Team Member Assignments)

– The performance of the SCA will be incorporated into the existing activities of the MS4 program, such as the inventorying of the MS4 and illicit discharge detection and elimination inspections. Therefore, a logistic and team member assignment that integrates all these field activities will be developed and included.

- k) Section 3.7 (Identifying and Notifying Property owners in survey area) – A public news release will be given instead of sending a letter to each individual property owner. Business cards will be given to property owners with questions and staff will direct any questions to the stormwater manager's office.
- l) Section 4.1 (Identifying Environmental Problems) – Environmental problems will be assessed at the stormwater outfalls and in the immediate areas within 100 feet upstream and downstream of the outfall.
- m) Section 4.2 (Assigning a Site Number) - The City of Johnson City is currently performing an inventory of the MS4 and will continue to use its own site numbering system when conducting surveys.
- n) Section 4.3 (Recording Problem Location on a map) – Problems in the field will be recording on the GIS System and not on a paper map.
- o) Section 4.4 (Photographing a site) – All photos will be taken with a digital camera and two (2) photos will be taken for clarity.
- p) Section 4.5 (Filling out data sheets) – All data will be input electronically and not on paper forms.
- q) Section 4.5.1 (Severity, Correctability and Access Ratings) – The number rating system for severity will be reversed to be in line with accessibility and correctability. 1 will be for minor problem and 5 will be for severe problems.
- r) Section 4.6 (Data Sheet Descriptions) – The data sheets will be electronic and the only data sheets that are needed will be used.
- s) Section 4.6.1 (Data Sheet Descriptions) – The data sheets will be electronic and the only data sheets that are needed will be used.
- t) Section 4.6.6 (Inadequate Buffer) – The City of Johnson City will not collect this information in the field. The inadequate buffers will be determined for aerial photography.
- u) Section 4.6.10 (Representative Site) – A representative section will not be used since stream assessments will be conducted at stormwater outfalls and in the immediate areas within 100 feet upstream and downstream of the outfall.
- v) Section 5.1 (Data Sheets) – The data sheets will be electronic and the only data sheets that are needed will be used.

- w) Section 5.1.1 (Data Entry) – The City will backup the files after each inspection and synchronize the data weekly and will utilize GIS software as the database. The GIS Technician oversees the syncing of the data.
- x) Section 5.1.2 (Data Verification) – The City utilizes the electronic collection of features; therefore the data imported is the same as the data taken in the field and no verification is required.
- y) Section 5.2 (Cataloging Photographs) – The City uses digital cameras and stores the photos on a secure network. These photos will not be printed.
- z) Section 5.3 (Map Information) – All map information is stored on the GIS server and is accessible through GIS software.
- aa) Section 5.3.1 (GIS Data Entry) – All data is currently stored in the GIS system and the State of Tennessee does not have a GIS system to put the information into.
- bb) Section 5.3.2 (GIS Data Verification) – This does not apply to the City
- cc) Section 5.4 (Data Review and Modification) – The same crew is performing all of the inspections and thus will add to the consistency of the surveys.

Any future modifications will receive approval from the local TDEC Field Office prior to implementation. In addition, the City will implement the terms of its MS4 Permit to the fullest extent, ensuring that all existing BMPs are being used to meet the waste load allocations (WLA) for each stream segment.

Implementation Plan:

	2007/08	2008/09	2009/10	2010/11	2012
E. coli Sampling		Select Contractor	Conduct testing		
SQSH		Select Contractor	Perform SQSH		
Visual Surveys	Review Maryland Protocol, identify and select training materials	Train City Staff on Maryland Protocol	City Staff to conduct surveys using modified Maryland Protocol	City Staff to conduct surveys using modified Maryland Protocol	City staff to conduct surveys using modified Maryland Protocol

Approved: _____
Andrew Best, P.E. Stormwater Manager
City of Johnson City, Tennessee

Total Maximum Daily Load (TMDL) Monitoring Plan

**for
Siltation and/or Habitat Alteration
In the
Watauga River (HUC 06010103)**

**Boones Creek, Brush Creek, Carroll Creek,
Cash Hollow Creek, Cobb Creek, Knob Creek,
Reedy Creek**

**from
July 1st, 2007 through June 30th, 2012**

Permit No. TNS075370

Revised December 7, 2007

City of Johnson City

**Andrew Best, P.E.
Stormwater Manager
Municipal and Safety Building
601 East Main Street
P.O. Box 2150
Johnson City, TN 37605-2150
Phone: 423-975-2854**



Background

On February 27, 2003, the City of Johnson City established a Municipal Separate Storm Sewer System (MS4) Phase II Stormwater Management Program under the regulatory authority of the National Pollutant Discharge Elimination System (NPDES) administered by TDEC. The City's MS4 Phase II operations are governed by the terms and conditions of this general NPDES permit, which became effective on February 28, 2003, and expires on February 26, 2008. In the NPDES permit, section 3.1 defines the responsibilities of the MS4 for "Discharges to Water Quality Impaired Waters". The minimum responsibility of the MS4 Phase II program is to: 1) determine if there are impaired waters within the jurisdiction of the MS4, 2) if so, determine if TMDL's have been established for the impaired waters, and 3) to establish a monitoring plan and controls with a concerted effort to reduce pollutants identified in the TMDL for the impaired waters.

Purpose

The purpose of this document is to comply with monitoring requirements associated with the Total Maximum Daily Load (TMDL) for Siltation and Habitat Alteration in the Watauga River Watershed as described in NPDES Permit No. TNS075370, Section 3.1. The TMDL process establishes the maximum allowable loadings of pollutants for a waterbody that will allow the waterbody to maintain water quality standards. The TMDL may then be used to develop controls for reducing pollution from both point and nonpoint sources in order to restore and maintain the quality of water resources (USEPA,1991).

TMDL Stream Summary

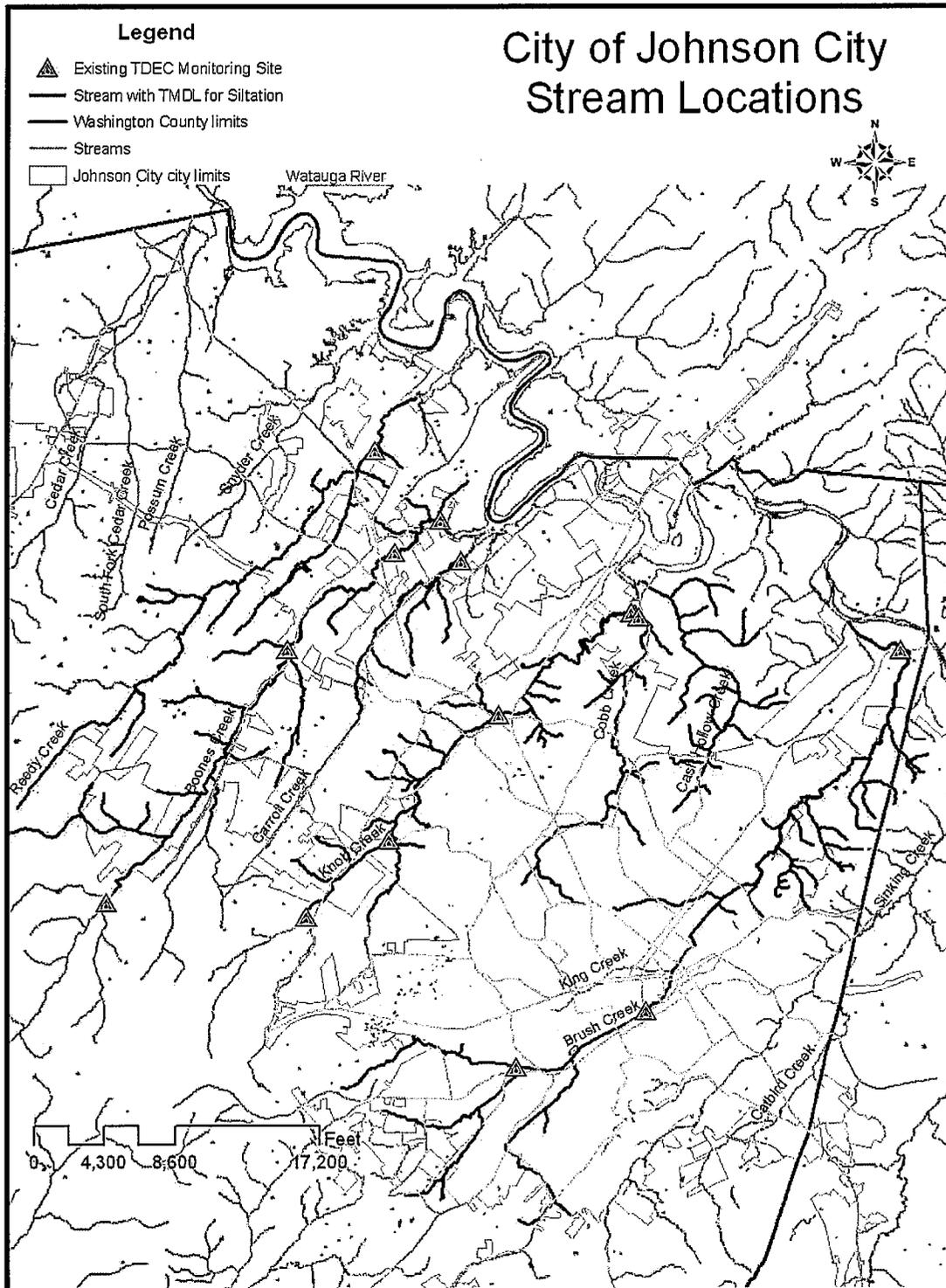
On March 17, 2006, TDEC published the TMDL for Siltation and Habitat Alteration in the Watauga River Watershed (HUC 06010103). Impaired waterbodies addressed in the TMDL that are within the City of Johnson City's boundary are as follows:

Waterbody	Waterbody ID	Cause (pollutant)	Source (Pollutant)	WLA
Boones Creek	06010103006-1000	Nitrates/Loss of biological integrity due to siltation/Habitat loss due to alteration in stream-side or littoral vegetative cover. Escherichia coli	Discharges from MS4 area, Pasture Grazing, Land Development	34.1%
Brush Creek	06010103009-1000	Nutrients/Loss of biological integrity due to siltation/Other Anthropogenic Habitat Alterations	Discharges from MS4 area	65.0%
Carroll Creek	06010103006-0100	Nitrates/Loss of biological integrity due to siltation/Habitat loss due to alteration in stream-side or littoral vegetative cover	Discharges from MS4 area, Pasture Grazing	22.1%
Cash Hollow Creek	06010103635-0100	Habitat loss due to alteration in streamside or littoral vegetative cover, Escherichia coli	Discharges from MS4 area	91.2%
Cobb Creek	06010103635-0200	Habitat loss due to alteration in streamside or littoral vegetative cover Loss of biological integrity due to siltation	Discharges from MS4 area	91.2%
Knob Creek	06010103635-1000	Habitat loss due to alteration in streamside or littoral vegetative cover Nitrates/Loss of biological integrity due to siltation /Escherichia coli	Discharges from MS4 area, Pasture Grazing	91.2%
Reedy Creek	06010103061-1000	Nitrates/Physical Substrate Habitat Alterations/Loss of biological integrity due to siltation	Discharges from MS4 area, Pasture Grazing, Channelization	22.1%

Table from TDEC TMDL March, 2006.

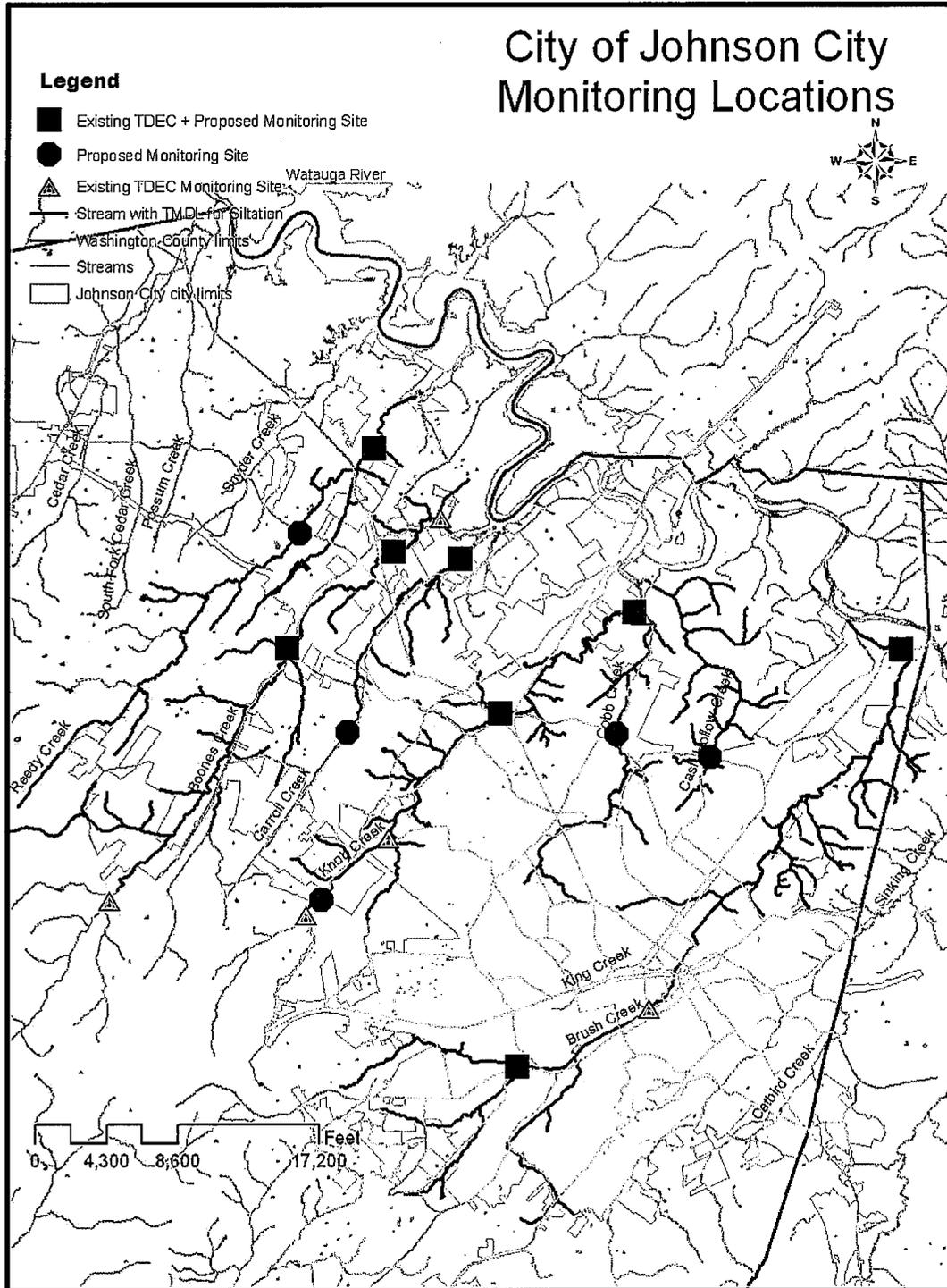
Prior to March 2006, 303d listed waters were identified for siltation and habitat alterations that did not have established TMDL's.

Current TMDL Stream Locations:



TMDL Monitoring Locations:

The City of Johnson City will monitor the following streams at the following locations:



Waterbody	Waterbody ID	ID	Monitoring Location	Latitude	Longitude
Boones Creek	06010103006-1000	BOCS1	Bentley Parc	36.3881°	-82.4071°
Boones Creek	06010103006-1000	BOCS2	Christian Church Rd	36.3729°	-82.4294°
Brush Creek	06010103009-1000	BCS1	Watauga Rd.	36.3689°	-82.3052°
Brush Creek	06010103009-1000	BCS2	McKinley Rd.	36.3028°	-82.3861°
Carroll Creek	06010103006-0100	CCS1	Cedar Point Rd.	36.3864°	-82.3937°
Carroll Creek	06010103006-0100	CCS2	Carroll Creek Rd.	36.3587°	-82.4178°
Cash Hollow Creek	06010103635-0100	CHCS1	E. Lakeview Dr.	36.3524°	-82.3447°
Cobb Creek	06010103635-0200	COCS1	Oakland Ave.	36.3567°	-82.3637°
Knob Creek	06010103635-1000	KCS1	Austin Sp. Sewage Plant	36.3767°	-82.3591°
Knob Creek	06010103635-1000	KCS2	N. Roan St.	36.3608°	-82.3869°
Knob Creek	06010103635-1000	KCS3	Claude Simmons Rd.	36.3313°	-82.4244°
Reedy Creek	06010103061-1000	RCS1	White St.	36.4051°	-82.4104°
Reedy Creek	06010103061-1000	RCS2	Old Gray Station Rd	36.3918°	-82.426°

Coordinates datum - WGS 1984.

TMDL Monitoring Plan and Methodology

The City of Johnson City monitoring plan for the Watauga River Siltation and Habitat Alteration TMDL will consist of the following:

1) Biological stream sampling

Utilize the Semi-Quantitative Single Habitat (SQSH) method as set forth in TDEC's "*Quality System Standard Operating Procedure for Macroinvertebrate Stream Survey*" revised October 2006. A habitat assessment will be performed as required by the Semi-Quantitative Single Habitat (SQSH) method. The City of Johnson City proposes to partner with other local MS4s in outsourcing this service with a qualified laboratory or contractor. The plan will also incorporate other testing each year as the budget allows in order to isolate tributaries that are sources of contamination, and also the possibility of eliminating some segments listed as impaired.

Monitoring Frequency:

A minimum of one sample per location listed in the TMDL will be collected, with all locations in the MS4 jurisdiction sampled by June 2012, or within a five year period.

2) Visual Stream Survey

A Visual Stream Survey and Impairment Inventory will be conducted on the listed segments and their tributaries at the locations listed in the TMDL and necessary outfalls to identify and prioritize impairment sources. TDEC recommends the use of the methodology outlined in the "*Stream Corridor Assessment Survey*" (SCA), published by the Watershed Restoration Division of the Maryland Department of Natural Resources, September 2001.

Monitoring Frequency:

All listed stream outfalls will be surveyed by June 2012, or within a five year period.

MS4 Modifications to this protocol:

- a) All Sections - Cell phones will be the substitute for radios. Left and right in the stream description will be from the reference of looking upstream.
- b) Sections 1.4 (Responsibilities of Survey Participants) and 1.5 (Volunteers) – Volunteer teams are presently not feasible due to the technical nature of the data that will be collected in addition to the SCA data. The City of Johnson City will continue to use the Maryland Protocol with trained City Staff to satisfy the requirements of this permit.
- c) Section 2.1 (Training) - A SCA training protocol will be developed either by the City or in cooperation with local MS4s.
- d) Section 2.2 (Safety) – Wearing waders and carrying a cell phone are considered required equipment. A back pack, drinking water, and rain gear are considered optional equipment.
- e) Section 2.3 (Respecting Private Property) – A public news release will be given instead of sending a letter to each individual property owner. Business cards will be given to property owners with questions and staff will direct any questions to the stormwater manager's office.
- f) Section 3.1 (Selecting a Watershed to Survey) - This section is not applicable, as TDEC has specified that the visual stream survey and impairment inventory must be performed throughout the subwatershed of each stream segment listed in the TMDL.

- g) Section 3.2 (Partnering with Watershed Stakeholder) - The City of Johnson City will cooperate with Tennessee governments, local governments and local agencies. Not the Maryland agencies listed in the protocol.
- h) Section 3.3 (Maps & Geographical Information Systems) - Mobile GIS and electronic maps will be used instead of paper maps.
- i) Section 3.4 (Survey Equipment) – The following list is the equipment that will be used during surveys.

Survey Crew Equipment

- Vehicles (2)
- Filled large water container (optional)
- Soap (wash hands after survey to reduce exposure to poison ivy - optional)

Survey Team Equipment

- Pen
- Tablet PC equipped with Trimble Terrasync and/or ESRI ArcPad and carrying bag (GIS and mapping information)
- Spare laptop battery
- GPS receiver for computer
- Cell phone
- Waterproof digital camera
- Site numbering board w/ extra dry-erase markers
- Tape measure
- First Aid Kit
- Business Cards
- Brush clippers and/or machete (optional)
- Bug spray and tick repellent (optional)
- Sunscreen (optional)

Survey Member Equipment

- City Hat
- Waders (Chest waders preferred)
- Proper Clothing (Pants required, long sleeve shirt suggested)
- Spare set of clothes in vehicle or office (optional)
- Filled water bottle (optional)
- Allergy or other medicines (optional)

- j) Section 3.5 (Logistics) and 3.6 (Team Member Assignments)
 - The performance of the SCA will be incorporated into the existing activities of the MS4 program, such as the inventorying of the MS4 and illicit discharge detection and elimination inspections. Therefore, a logistic and team member assignment that integrates all these field activities will be developed and included.
- k) Section 3.7 (Identifying and Notifying Property owners in survey area) – A public news release will be given instead of sending a letter to each individual property owner. Business cards will be given to property owners with questions and staff will direct any questions to the stormwater manager's office.
- l) Section 4.1 (Identifying Environmental Problems) – Environmental problems will be assessed at the stormwater outfalls and in the immediate areas within 100 feet upstream and downstream of the outfall.
- m) Section 4.2 (Assigning a Site Number) - The City of Johnson City is currently performing an inventory of the MS4 and will continue to use its own site numbering system when conducting surveys.
- n) Section 4.3 (Recording Problem Location on a map) – Problems in the field will be recording on the GIS System and not on a paper map.
- o) Section 4.4 (Photographing a site) – All photos will be taken with a digital camera and two (2) photos will be taken for clarity.
- p) Section 4.5 (Filling out data sheets) – All data will be input electronically and not on paper forms.
- q) Section 4.5.1 (Severity, Correctability and Access Ratings) – The number rating system for severity will be reversed to be in line with accessibility and correctability. 1 will be for minor problem and 5 will be for severe problems.
- r) Section 4.6 (Data Sheet Descriptions) – The data sheets will be electronic and the only data sheets that are needed will be used.
- s) Section 4.6.1 (Data Sheet Descriptions) – The data sheets will be electronic and the only data sheets that are needed will be used.
- t) Section 4.6.6 (Inadequate Buffer) – The City of Johnson City will not collect this information in the field. The inadequate buffers will be determined for aerial photography.

- u) Section 4.6.10 (Representative Site) – A representative section will not be used since stream assessments will be conducted at stormwater outfalls and in the immediate areas within 100 feet upstream and downstream of the outfall.
- v) Section 5.1 (Data Sheets) – The data sheets will be electronic and the only data sheets that are needed will be used.
- w) Section 5.1.1 (Data Entry) – The City will back up the files after each inspection and synchronize the data weekly and will utilize GIS software as the database. The GIS Technician oversees the syncing of the data.
- x) Section 5.1.2 (Data Verification) – The City utilizes the electronic collection of features; therefore the data imported is the same as the data taken in the field and no verification is required.
- y) Section 5.2 (Cataloging Photographs) – The City uses digital cameras and stores the photos on a secure network. These photos will not be printed.
- z) Section 5.3 (Map Information) – All map information is stored on the GIS server and is accessible through GIS software.
- aa) Section 5.3.1 (GIS Data Entry) – All data is currently stored in the GIS system and the State of Tennessee does not have a GIS system to put the information into.
- bb) Section 5.3.2 (GIS Data Verification) – This does not apply to the City
- cc) Section 5.4 (Data Review and Modification) – The same crew is performing all of the inspections and thus will add to the consistency of the surveys.

Any future modifications will receive approval from the local TDEC Field Office prior to implementation. In addition, the City will implement the terms of its MS4 Permit to the fullest extent, ensuring that all existing BMPs are being used to meet the waste load allocations (WLA) for each stream segment.

Implementation Plan:

	2007/08	2008/09	2009/10	2010/11	2012
SQSH		Select Contractor	Perform SQSH		
Visual Surveys	Review Maryland Protocol, identify and select training materials	Train City Staff on Maryland Protocol	City Staff to conduct surveys using modified Maryland Protocol	City Staff to conduct surveys using modified Maryland Protocol	City staff to conduct surveys using modified Maryland Protocol

Approved: _____
 Andrew Best, P.E. Stormwater Manager
 City of Johnson City, Tennessee

APPENDIX II

Public Education Examples

Have your septic tank pumped and septic system inspected regularly.

Direct downpours onto lawns and away from paved surfaces.

Plant grass or plants on the bare spots in your yard.

Follow directions on fertilizer labels and sweep off driveways, sidewalks, and roads so that the chemicals won't get into storm drains.

Check car for leaks and recycle used motor oil. Never pour from the ground or into a storm drain.

Minimize pesticides; learn about Integrated Pest Management (IPM).

Compost yard wastes—leaves and grass. Don't dump them in ditches or waterways.

Take your car to a car wash or park on the grass to wash so that the cleaner's don't run off into storm drains.

Pick up after your pet. Don't let pet waste wash into storm drains.

NEVER pour any kind of waste into storm drains.

Clean water begins at home
www.tennesseewaterworks.com 615-898-2660

Maintain your BMPs!

Cover or seed
dirt stockpiles.

Stabilize exposed
areas with
vegetation.

Reduce slope steepness
and length by terracing. Use
diversion to route clean water
away from disturbed areas.

Recycle as much
waste as possible.

Landscaping after final
grading to stabilize
exposed areas.

Install and maintain
appropriate sediment
controls.

Plan construction
entrances to limit
runoff.

Use 2-3" sized gravel
with geotextile beneath
gravel.

Physically remove
sediment from street
or drainage structures
immediately.

Protect and maintain proper
controls at storm drain inlets.

Protect existing
vegetation.

For more information, visit
<http://www.epa.gov/npdes/stormwater/menuofbmps>

Protect streams with
adequate buffers to
limit runoff.

Clean water begins on site...

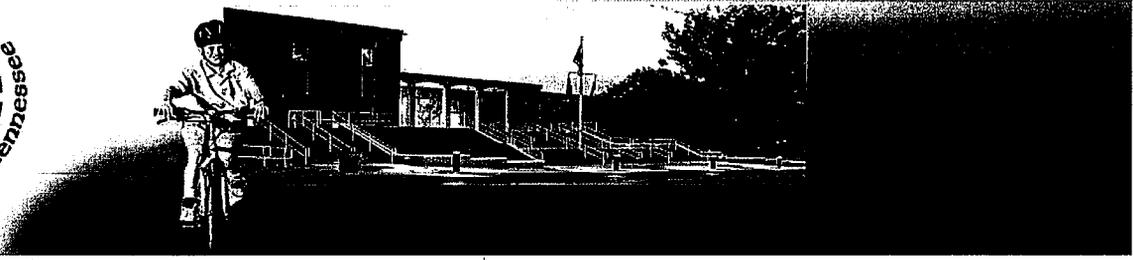
www.tennesseewaterworks.com



615-898-2660

APPENDIX III

Household Hazardous Waste Web Announcement



Solid Waste

Solid Waste Division

Street Address
Solid Waste Division
91 New Street
Johnson City, TN 37601

Mailing Address
PO Box 2150
Johnson City, TN 37605

Phone: (423) 975-2792
M-F from 6am-5pm

Email: josmith@johnsoncitytn.org

Department Menu

- [Home](#)
- [Special Events](#)
- [Iris Glen Environmental Center](#)

Special Events**Special Events - 2011****GREAT AMERICAN CLEANUP**

March 1st through May 31st, 2011 - If you are having a cleanup event, please notify Eva Hunter 423.979.6318 or ehunter@johnsoncitytn.org so your efforts can be included in our city-wide report.

**ARBOR DAY**

Saturday, April 2nd, 2011 - 10,000 TREES Giveaway (2000 seedlings) @ Metro Park @ 9am. Trying to get a mixture of 2 shade trees and 3 ornamental species. For more information, contact Pat Walding 423.975-2681.

DASH FOR TRASH

Saturday, April 9th, 2011 - Downtown Johnson City 10am - noon. Please contact Maggie Darden (*Secretary/Treasurer, Student Government Association ETSU*) for more information at 423.439.4253.

NEIGHBORHOOD CLEANUPS

Saturday, April 16th, 2011, open top containers will be located at various sites in Johnson City for use by the public. Residents may bring and dispose of bulky items not normally collected by City Crews. Only pickup truck loads or less will be accepted (no flatbed or dump truck loads please).

Assistance with unloading will be provided at each site.

Items will be accepted from **8am until noon** at the following locations:

Cherokee Elementary School
Liberty Bell Complex - Parking Lot I
Indian Trail Middle School
Solid Waste Services - 91 New Street
Washington County Convenience Centers

**Call for further information: Solid Waste Services - 975-2792*

Operation Rx TAKE BACK

Saturday, April 16th, 2011 - 9am until noon @ Water Street parking lot between Munsey & Good Samaritan. For more information, contact Jennifer Bervan at wcadci@yahoo.com.

HOUSEHOLD HAZARDOUS WASTE COLLECTION DAY

A household hazardous waste collection day for Washington County and Johnson City will be held on **Saturday, May 7th, 2011**, 9am til 2pm. The location will be at Daniel Boone High School. For a complete list of acceptable and unacceptable items visit:

<http://state.tn.us/environment/swm/hhw/hhwproducts.shtml>

For more information, contact Charlie Baines at 423.753.1652.

[601 E. Main Street, Johnson City, Tennessee](#) | 423.434.6000

©City of Johnson City | All Rights Reserved | [Site Map](#) | [Privacy Policy](#)

- [Skip to navigation](#)
- [Skip to content](#)

Previous page: [Home](#) Next page: [Propane Tank Recycling Program](#)

APPENDIX IV
Endangered Species

Culbert, Jim

From: Culbert, Jim
Sent: Wednesday, April 26, 2006 3:55 PM
To: 'James_Widlak@fws.gov'
Subject: RE: FW: status of mapping

Thanks,
Jim

-----Original Message-----

From: James_Widlak@fws.gov [mailto:James_Widlak@fws.gov]
Sent: Wednesday, April 26, 2006 2:45 PM
To: Culbert, Jim
Subject: RE: FW: status of mapping

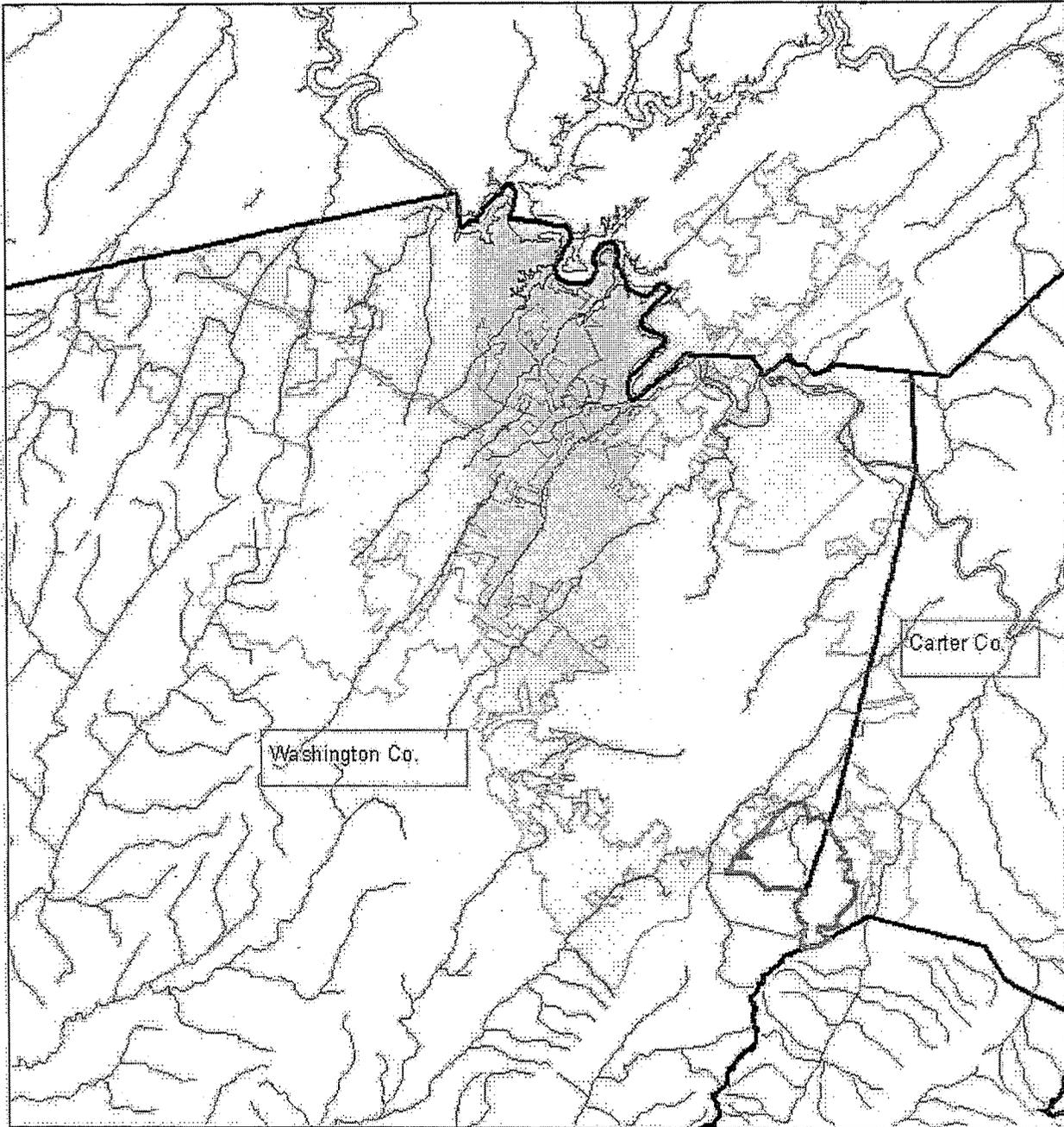
Mr. Culbert,

The map shows a buffered area around known records for federally listed species around Johnson City. The listed species in this area is the small-whorled pogonia, an orchid. Any action requiring new ground disturbance within the area shown would be of concern to us and we would suggest that you coordinate with us. Actions outside the area shown, or actions within the area that will not require new ground disturbance would not be of concern to us with regard to federally endangered or threatened species.

Jim Widlak
Fish & Wildlife Biologist
U.S. Fish and Wildlife Service
446 Neal Street
Cookeville, Tennessee 38501

(tele: 931/528-6481, ext. 202)
(fax: 931/528-7075)
email: james_widlak@fws.gov

Buffered Location for Threatened Small-Whorled Pogonia



0 0.5 1 2 3 4 Miles

N
↑
—

Pachol, Brandon

From: Pachol, Brandon
Sent: Monday, May 19, 2008 11:14 AM
To: 'James_Widlak@fws.gov'
Cc: Cantrell, Allan
Subject: City of Johnson City Storm Water Quality Program

Jim,

The City of Johnson City has begun reviewing land development plans submitted by land owners and their representatives. In order to comply with the requirements of our storm water quality program we will need some assistance from the U. S. Fish & Wildlife Service.

The following excerpts are from our *Water Quality BMP Manual* requiring us to address the Endangered Species Act when reviewing Water Quality Management Plans.

The MS4 Permit (discussed previously in this chapter) requires the local jurisdiction to consider the potential impacts of stormwater discharges on species that are listed as endangered or threatened under the ESA and on habitat that is designated as "critical" under the ESA. **Because of these requirements, any proposed development that is located within, or discharges stormwater runoff to, an area designated as containing threatened species, endangered species, or critical habitat (as defined by the ESA) shall be reviewed by the United States Fish and Wildlife Service (USFWS) prior to submittal of a WQMP.** If USFWS determines that the proposed development may, or will, impact an endangered or threatened species, or critical habitat, an informal consultation may be required by USFWS to determine the BMPs that will mitigate the potential ESA-related impacts. Often, such impacts will be construction related, and therefore will impact the design of erosion prevention and sediment control measures. **It is the responsibility of the property owner to work with USFWS to ensure compliance with the ESA.**

In order to facilitate an understanding of when ESA Reviews are needed, each local jurisdiction has a Threatened and Endangered Species Buffer Map. This map shall be used to determine which proposed developments will require review by USFWS. This map is prepared and maintained by the USFWS, and is available from the local jurisdiction for use by the general public. The map will be updated by the local jurisdiction as needed to remain current.

Jim Culbert, the City Environmental Auditor, has a copy of a map you made available to him showing the *Buffered Location for Threatened Small-Whorled Pogonia*, dated April 26, 2006.

Could you help with some items concerning the requirement of our storm water quality program for *Threatened and Endangered Species Buffer Maps* that we must make available to the public?

1. Are there any other threatened or endangered species within the jurisdiction of Johnson City, other than what is shown on the map referenced above?
2. Is the map mentioned above up to date?
3. What would be the best way for the City of Johnson City to stay current with U.S. Fish & Wildlife Service concerning the Endangered Species Act required by our storm water quality program? How can we be assured that we have the most up-to-date *Threatened and Endangered Species Buffer Maps*?

Thanks for your help.

Brandon

Pachol, Brandon

From: James_Widlak@fws.gov
Sent: Friday, May 23, 2008 11:00 AM
To: Pachol, Brandon
Subject: Re: City of Johnson City Storm Water Quality Program

Mr. Pachol:

Thanks for your email concerning Johnson City's stormwater program. As you noted, we provided a map showing buffered locations of federally listed species in the Johnson City jurisdictional area. That map was provided in 2006.

In answer to your questions:

(1) Unless the jurisdictional boundary provided to us in 2006 has changed, there are no additional federally listed species that must be addressed in the Johnson City stormwater program. We have not listed any new species that might occur in that area, and we have received no new records for listed species.

(2) Again, unless things have changed with your jurisdictional area, the map we submitted in April 2006 is up-to-date.

(3) The best way for you to be sure that you have a map showing the latest data about the presence of federally listed species in your area is to contact us periodically. If the boundaries of your area have changed, or if there have been other changes in the stormwater program in your area, you should inform us of those changes. A good interval to make this contact is at least twice per year. We will be glad to provide you with any new information that we have that would be relevant to your stormwater program.

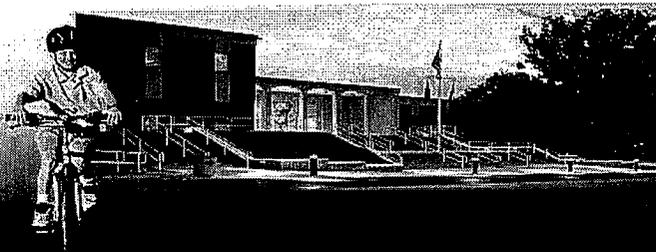
If you have any other questions, contact me at the number or email below.

Jim Widlak
Fish & Wildlife Biologist
U.S. Fish and Wildlife Service
446 Neal Street
Cookeville, Tennessee 38501

(tele: 931/528-6481, ext. 202)
(fax: 931/528-7075)
email: james_widlak@fws.gov

APPENDIX V

Public Hearing Notification



News Room

City of Johnson City
601 East Main St.
Johnson City, TN 37601

423-434-6000

Department Menu

- [News Room Home](#)

News Room Home

* Stormwater report public hearing set for Sept. 26th

The City of Johnson City will hold a public hearing at 5 p.m. Monday, Sept. 26th in the Commission Chambers of the Municipal and Safety Building, 601 E. Main St., to present the Small Municipal Separate Storm Sewer System (MS4) Annual Report. A copy of the MS4 annual report will be available online at www.johnsoncitytn.org by Wednesday, Sept. 21st or a copy may be obtained by contacting Stormwater Manager Andy Best at (423)975-2854.

*CONTACT: Andy Best, stormwater manager
Public Works – Stormwater
(423)975-2854*

[Print](#)
[Return](#)

601 E. Main Street, Johnson City, Tennessee | 423.434.6000
©City of Johnson City | All Rights Reserved | [Site Map](#) | [Privacy Policy](#)

- [Skip to navigation](#)
- [Skip to content](#)

Previous page: [Calendars](#) Next page: [Community Link](#)

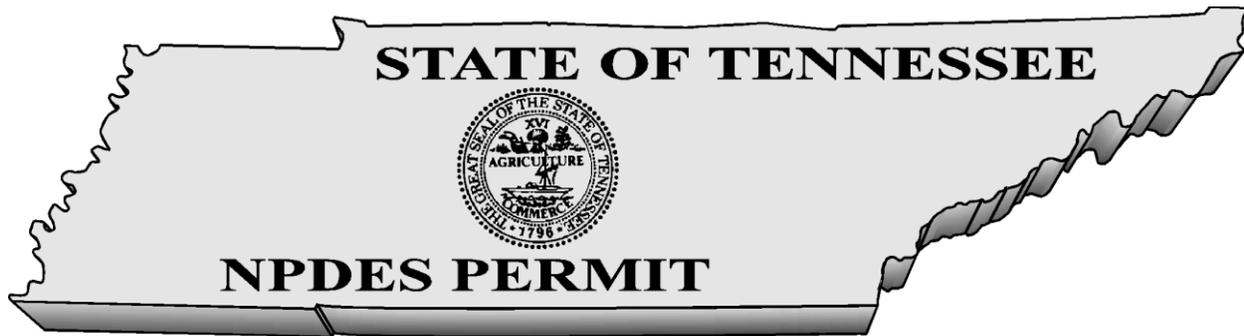
Categories: General

Date: Sep 16, 2011

Title: * Stormwater report public hearing set for Sept. 26th

The City of Johnson City will hold a public hearing at 5 p.m. Monday, Sept. 26th in the Commission Chambers of the Municipal and Safety Building, 601 E. Main St., to present the Small Municipal Separate Storm Sewer System (MS4) Annual Report. A copy of the MS4 annual report will be available online at www.johnsoncitytn.org by Wednesday, Sept. 21st or a copy may be obtained by contacting Stormwater Manager Andy Best at (423)975-2854.

*CONTACT: Andy Best, stormwater manager
Public Works – Stormwater
(423)975-2854*



NPDES GENERAL PERMIT FOR DISCHARGES
From
**SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEM
(MS4)**

Tracking No. TNS075370

Under authority of the Tennessee Water Quality Control Act of 1977 (T.C.A. 69-3-101 et seq.) and approval from the United States Environmental Protection Agency under the Federal Water Pollution Control Act, as amended by the Clean Water Act of 1977 (33 U.S.C. 1251, et seq.) and the Water Quality Act of 1987, P.L. 100-4, the following operator of a small municipal separate storm sewer system is authorized to discharge stormwater runoff into the waters of the State of Tennessee in accordance with the various eligibility criteria, administrative procedures, program requirements, reporting requirements, etc. set forth in parts 1 through 7 of Tennessee small municipal separate storm sewer system NPDES general permit, issued August 31, 2010:

Discharger: **City of Johnson City**

is authorized to discharge: stormwater runoff

from the Johnson City separate storm sewer system located in: Washington County

to waters of the state, in accordance with the required program elements and other conditions set forth in the Tennessee small MS4 general permit:

Coverage under this general permit shall become effective on: **April 27, 2011**

and shall expire on **September 1, 2015**

Notice of Coverage issued: **April 27, 2011**

Paul E. Davis, Director
Division of Water Pollution Control

NPDES General MS4 Permit is located at <http://tn.gov/environment/wpc/stormh2o/MS4II.shtml>



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
401 CHURCH STREET
L & C ANNEX 6TH FLOOR
NASHVILLE TN 37243

April 27, 2011

Mr. Phil Pindzola
Public Works Director
City of Johnson City
Municipal and Safety Building
601 East Main Street
Johnson City, TN 37601

Subject: **NPDES Tracking Number TNS075370**
TN NPDES General Permit for Small Municipal Storm Sewer Systems
Johnson City, Washington County, Tennessee

Dear Mr. Pindzola:

Thank you for submitting a Notice of Intent (NOI), received on December 23, 2010, as required by Part 2 of the NPDES General Permit for Small Municipal Separate Storm Sewer Systems (TNS000000). We have completed a review of the NOI for accuracy and completeness, and are issuing the attached Notice of Coverage (NOC). Issuance of the NOC does not certify that the NOI adequately provides for all requirements as specified in the MS4 permit. It is the responsibility of the MS4 to implement, maintain, modify, and improve Best Management Practices that are sufficient to prevent pollution and to remain in compliance with all terms and conditions of the MS4 permit.

If you have questions, please contact the division at the Johnson City Environmental Field Office at 1-888-891-TDEC; or, at this office, please contact Mr. Paul Higgins at (615) 532-1178 or by E-mail at Paul.Higgins@tn.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Vojin Janjić'.

Vojin Janjić
Manager, Permit Section

CC/EC: DWPC, Permit Section & Johnson City Environmental Field Office
Mr. Andrew Best, P.E., MS4 Stormwater Coordinator, abest@johnsoncitytn.org