



BLOUNT COUNTY GOVERNMENT

STORMWATER DEPARTMENT

1221 McArthur Road
Maryville, TN 37804
Phone: 865-518-6904 Fax: 865-681-9502

September 26, 2018

Ms. Valarie McFall
TDEC
Knoxville Environmental Field Office
Division of Water Pollution Control
3711 Middlebrook Pike
Knoxville, TN 37921

**RE: MS4 Annual Report
Blount County
TNS075116**

Dear Ms. McFall:

Please find attached Blount County's Small Municipal Separate Storm Sewer System (MS4) Annual Report. The reporting period is from July 1, 2017 to June 30, 2018. Additionally, there are three attachments to the annual report.

Please don't hesitate to contact me if you have any questions or comments in regard to the submitted report. I may be reached at (865)518-6904 or by email at jhatcher@blounttn.org if you may have any questions or comments.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jeff Hatcher".

Jeff Hatcher
Blount County Stormwater Program Manager



Tennessee Department of Environment and Conservation
 Division of Water Resources
 William R. Snodgrass Tennessee Tower,
 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
 1-888-891-8332 (TDEC)

Phase II Small Municipal Separate Storm Sewer System (MS4) Annual Report

1. MS4 Information

Name of MS4: Blount County Government		MS4 Permit Number: TNS075116
Contact Person: Jeff Hatcher		Email Address: jhatcher@blounttn.org
Telephone: (865) 518-6904		MS4 Program Web Address: http://www.blounttn.org/305/Stormwater
Mailing Address: 1221 McArthur Road		
City: Maryville	State: TN	ZIP code: 37804

What is the current population of your MS4? ~49,000

What is the reporting period for this annual report? July 1 2017 to June 30 2018

2. Discharges to Waterbodies with Unavailable Parameters or Exceptional Tennessee Waters (Section 3.1)

- A. Does your MS4 discharge into waters with unavailable parameters (previously referred to as impaired) for pathogens, nutrients, siltation or other parameters related to stormwater runoff from urbanized areas as listed on TN's most current 303(d) list and/or according to the on-line state GIS mapping tool (tdeconline.tn.gov/dwr/)? If yes, attach a list. Yes No
- B. Are there established and approved TMDLs (<http://www.tn.gov/environment/article/wr-ws-tennessees-total-maximum-daily-load-tmdl-program>) with waste load allocations for MS4 discharges in your jurisdiction? If yes, attach a list. Yes No
- C. Does your MS4 discharge to any Exceptional Tennessee Waters (ETWs - http://environment-online.tn.gov:8080/pls/enf_reports/f?p=9034:34304:4880790061142)? If yes, attach a list. Yes No
- D. Are you implementing specific Best Management Practices (BMPs) to control pollutant discharges to waterbodies with unavailable parameters or ETWs? If yes, describe the specific practices: _____. Yes No

3. Public Education/Outreach and Involvement/Participation (Sections 4.2.1 and 4.2.2)

- A. Have you developed a Public Information and Education plan (PIE)? Yes No
- B. Is your public education program targeting specific pollutants and sources, such as Hot Spots? If yes, describe the specific pollutants and/or sources targeted by your public education program: Urban runoff, sediment, pathogens, chemicals, and grease from restaurants. Yes No
- C. Do you have a webpage dedicated to your stormwater program? If yes, provide a link/URL: http://www.blounttn.org/305/Stormwater Yes No
- D. Summarize how you advertise and publicize your public education, outreach, involvement and participation opportunities: County stormwater website, handouts/flyers, information available at public events and local newspaper when needed.

Phase II Small Municipal Separate Storm Sewer System (MS4) Annual Report

- E. Summarize the public education, outreach, involvement and participation activities you completed during this reporting period: Offered one Hot Spot educational training for local businesses via Keep Blount Beautiful, Participated with Keep Blount Beautiful and the Cities of Alcoa and Maryville to educate grade school children from local schools at a Waterfest event, participated in the Tennessee Association of Broadcasters (TAB) for local radio spots on our public education program, participated with other local MS4's with an educational booth at the Dogwood Arts House and Garden Show, provided educational materials at the County Operations Center and provided supplies for a stream clean up event.
- F. Summarize any specific successful outcome(s) (e.g., citizen involvement, pollutant reduction, water quality improvement, etc.) fully or partially attributable to your public education and participation program during this reporting period: Educated 1,137 school children and 3,077 adults via water quality education contracted by Keep Blount Beautiful.

4. Illicit Discharge Detection and Elimination (Section 4.2.3)

- A. Have you developed and do you continue to update a storm sewer system map that shows the location of system outfalls where the municipal storm sewer system discharges into waters of the state or conveyances owned or operated by another MS4? Yes No
- B. If yes, does the map include inputs into the storm sewer collection system, such as the inlets, catch basins, drop structures or other defined contributing points to the sewershed of that outfall, and general direction of stormwater flow? Yes No
- C. How many outfalls have you identified in your storm sewer system? 112
- D. Do you have an ordinance, or other regulatory mechanism, that prohibits non-stormwater discharges into your storm sewer system? Yes No
- E. Have you implemented a plan to detect, identify and eliminate non-stormwater discharges, including illegal disposal, throughout the storm sewer system? If yes, provide a summary: Blount County has created a Standard Operating Procedure for Illicit Discharge Detection and Elimination. Yes No
- F. How many illicit discharge related complaints were received this reporting period? 5
- G. How many illicit discharge investigations were performed this reporting period? 5
- H. Of those investigations performed, how many resulted in valid illicit discharges that were addressed and/or eliminated? 4

5. Construction Site Stormwater Runoff Pollutant Control (Section 4.2.4)

- A. Do you have an ordinance or other regulatory mechanism requiring:
- Construction site operators to implement appropriate erosion prevention and sediment control BMPs consistent with those described in the TDEC EPSC Handbook? Yes No
- Construction site operators to control wastes such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste? Yes No
- Design storm and special conditions for unavailable parameters waters or Exceptional Tennessee Waters consistent with those of the current Tennessee Construction General Permit (TNR100000)? Yes No
- B. Do you have specific procedures for construction site plan (including erosion prevention and sediment BMPs) review and approval? Yes No

Phase II Small Municipal Separate Storm Sewer System (MS4) Annual Report

- C. Do you have sanctions to enforce compliance? Yes No
- D. Do you hold pre-construction meetings with operators of priority construction activities and inspect priority construction sites at least monthly? Yes No
- E. How many construction sites disturbing at least one acre or greater were active in your jurisdiction this reporting period? 11
- F. How many active priority and non-priority construction sites were inspected this reporting period? 7
- G. How many construction related complaints were received this reporting period? 1

6. Permanent Stormwater Management at New Development and Redevelopment Projects (Section 4.2.5)

- A. Do you have a regulatory mechanism (e.g. ordinance) requiring permanent stormwater pollutant removal for development and redevelopment projects? If no, have you submitted an Implementation Plan to the Division? Yes No
 Yes No
- B. Do you have an ordinance or other regulatory mechanism requiring:
 - Site plan review and approval of new and re-development projects? Yes No
 - A process to ensure stormwater control measures (SCMs) are properly installed and maintained? Yes No
 - Permanent water quality riparian buffers? If yes, specify requirements: 30' or 60' from top of bank depending on drainage area. Yes No
- C. What is the threshold for development and redevelopment project plans plan review (e.g., all projects, projects disturbing greater than one acre, etc.)? Projects disturbing one acre or more within the Urbanized Area of the County.
- D. How many development and redevelopment project plans were reviewed for this reporting period? 2
- E. How many development and redevelopment project plans were approved? 2
- F. How many permanent stormwater related complaints were received this reporting period? 0
- G. How many enforcement actions were taken to address improper installation or maintenance? 0
- H. Do you have a system to inventory and track the status of all public and private SCMs installed on development and redevelopment projects? Yes No
- I. Does your program include an off-site stormwater mitigation or payment into public stormwater fund? If yes, specify. Yes No

7. Stormwater Management for Municipal Operations (Section 4.2.6)

- A. As applicable, have stormwater related operation and maintenance plans that include information related to maintenance activities, schedules and the proper disposal of waste from structural and non-structural stormwater controls been developed and implemented at the following municipal operations:
 - Streets, roads, highways? Yes No
 - Municipal parking lots? Yes No
 - Maintenance and storage yards? Yes No
 - Fleet or maintenance shops with outdoor storage areas? Yes No
 - Salt and storage locations? Yes No

Phase II Small Municipal Separate Storm Sewer System (MS4) Annual Report

Snow disposal areas? Yes No

Waste disposal, storage, and transfer stations? Yes No

B. Do you have a training program for employees responsible for municipal operations at facilities within the jurisdiction that handle, generate and/or store materials which constitute a potential pollutant of concern for MS4s? Yes No

If yes, are new applicable employees trained within six months, and existing applicable employees trained and/or retrained within the permit term? Yes No

8. Reviewing and Updating Stormwater Management Programs (Section 4.4)

A. Describe any revisions to your program implemented during this reporting period including but not limited to:

Modifications or replacement of an ineffective activity/control measure. None

Changes to the program as required by the division to satisfy permit requirements. None

Information (e.g. additional acreage, outfalls, BMPs) on newly annexed areas and any resulting updates to your program. None

B. In preparation for this annual report, have you performed an overall assessment of your stormwater management program effectiveness? If yes, summarize the assessment results, and any modifications and improvements scheduled to be implemented in the next reporting period. _____ Yes No

9. Enforcement Response Plan (Section 4.5)

- A. Have you implemented an enforcement response plan that includes progressive enforcement actions to address non-compliance, and allows the maximum penalties specified in TCA 68-221-1106? If no, explain. n/a Yes No
- B. As applicable, identify which of the following types of enforcement actions (or their equivalent) were used during this reporting period; indicate the number of actions, the minimum measure (e.g., construction, illicit discharge, permanent stormwater management), and note those for which you do not have authority:

<u>Action</u>	<u>Construction</u>	<u>Permanent Stormwater</u>	<u>Illicit Discharge</u>	<u>In Your ERP?</u>	
Verbal warnings	<u>#5</u>	<u>#0</u>	<u>#0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Written notices	<u>#0</u>	<u>#0</u>	<u>#5</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Citations with administrative penalties	<u>#0</u>	<u>#0</u>	<u>#0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Stop work orders	<u>#0</u>	<u>#0</u>	<u>#0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Withholding of plan approvals or other authorizations	<u>#0</u>	<u>#0</u>	<u>#0</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Additional Measures	<u>#n/a</u>	<u>#n/a</u>	<u>#n/a</u>	Describe: _____	

- C. Do you track instances of non-compliance and related enforcement documentation? Yes No
- D. What were the most common types of non-compliance instances documented during this reporting period?

10. Monitoring, Recordkeeping and reporting (Section 5)

- A. Summarize any analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. Sampled Peppermint Branch, Polecat Creek and Pistol Creek (See Attachment)
- B. Summarize any non-analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. None
- C. If applicable, are monitoring records for activities performed during this reporting period submitted with this report. Yes No

11. Certification

Phase II Small Municipal Separate Storm Sewer System (MS4) Annual Report

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."

Jeff Hendrick, Hwy Supervisor Jeff Hendrick 9/27/2018
 Printed Name and Title Signature Date

Annual reports must be submitted by September 30 of each calendar year (Section 5.4) to the appropriate Environmental Field Office (EFO), identified in the table below:

EFO	Street Address	City	Zip Code	Telephone
Chattanooga	1301 Riverfront Pkwy, Suite 206	Chattanooga	37402	(423) 634-5745
Columbia	1421 Hampshire Pike	Columbia	38401	(931) 380-3371
Cookeville	1221 South Willow Ave.	Cookeville	38506	(931) 520-6688
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

Appendix A

Section 2.A - 303(d) Streams



BLOUNT COUNTY GOVERNMENT

STORMWATER DEPARTMENT

1221 McArthur Road
 Maryville, TN 37804
 Phone: 865-518-6804 Fax: 865-681-9502

Small Municipal Separate Storm Sewer System (MS4) Annual Report

Blount County MS4

Annual Report: July 1, 2017 to June 30, 2018

Section 2. A.: 303(d) Streams

Waterbody I.D. #	Cause/TMDL Priority	Approved TMDL		MS4 Assigned to WLA	
TN06010201026 – 0100 Roddy Branch	Alteration in stream-side or littoral vegetative cover / NA Physical Substrate Habitat Alteration / NA Loss of biological integrity due to siltation / NA Escherichia coli NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201026 – 0200 Caney Branch	Physical Substrate Habitat Alteration/ NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201026 – 0300 HOLLYBROOK BRANCH	Unionized Ammonia /L Total Phosphorus L Alteration in stream-side or littoral vegetative cover /NA Loss of biological integrity due to siltation /NA Escherichia coli /H	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201026 – 0400 PISTOL CREEK	Loss of biological integrity due to siltation NA Escherichia coli NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201026 – 0410 SPRINGFIELD BRANCH	Nitrate+Nitrite /L Loss of biological integrity due to siltation /NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201026 – 0420 BROWN CREEK	Alteration in stream-side or littoral vegetative cover /NA Nitrate+Nitrite M Loss of biological integrity due to siltation /NA Escherichia coli/ H	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201026 – 0421 DUNCAN BRANCH	Flow Alteration /NA	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

TN06010201026 – 0430 CULTON CREEK	Loss of biological integrity due to siltation /NA Escherichia coli /NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010201026 – 0431 LAUREL BANK BRANCH	Loss of biological integrity due to siltation /NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201026 – 0500 RUSSELL BRANCH	PCBs /L Loss of biological integrity due to siltation /NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201026 – 1000 LITTLE RIVER	PCBs /NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010201026 – 2000 LITTLE RIVER	This 17.63 mile section of the Little River has been identified as "threatened" due to a documented decline in diversity at biological stations at miles 7.6 and 9.6./L	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010201027 – 0300 ROCKY BRANCH	Habitat loss due to alteration in stream-side or littoral vegetative cover /NA Loss of biological integrity due to siltation /NA Escherichia coli /H	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201027 – 0400 PEPPERMINT BRANCH	Loss of biological integrity due to siltation /NA Escherichia coli /H	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201028 – 0100 SPICEWOOD BRANCH	Loss of biological integrity due to siltation /NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201028 – 0300 SOUTH FORK CROOKED CREEK	Habitat loss due to alteration in stream-side or littoral vegetative cover /NA Loss of biological integrity due to siltation /NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201028 – 0500 FLAG BRANCH	Habitat loss due to alteration in stream-side or littoral vegetative cover /NA Loss of biological integrity due to siltation /NA Escherichia coli/ H	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201028 – 1000 CROOKED CREEK	Escherichia coli /NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201031 – 1000 HESSE CREEK	Escherichia coli /NA	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010201032 – 0700 DRY BRANCH	Escherichia coli /NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010201032 – 0800 SHORT CREEK	Nitrate+Nitrite /M	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

TN06010201032 – 0820 TIPTON BRANCH	Habitat loss due to alteration in stream-side or littoral vegetative cover /NA Loss of biological integrity due to siltation /NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201033-0100 LITTLE ELLEJOY CREEK	Nitrate+Nitrite/ L Escherichia coli/ NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201033 – 0200 PITNER CREEK	Escherichia coli /NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201033 - 1000 ELLEJOY CREEK	Escherichia coli /NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201033 - 2000 ELLEJOY CREEK	Nitrate+Nitrite / L Loss of biological integrity due to siltation /NA Escherichia coli /NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201034 - 0200 WILDWOOD BRANCH	Alteration in stream-side or littoral vegetative cover /NA Escherichia coli/ NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201034 – 1000 NAILS CREEK	Escherichia coli /NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201083 – 1000 FLOYD CREEK	Loss of biological integrity due to siltation /NA Escherichia coli /NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010201983 – 1000 POLECAT CREEK	Alteration in stream-side or littoral vegetative cover /NA Loss of biological integrity due to siltation /NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010204020 - 1000 LITTLE TENNESSEE RIVER	Habitat loss due to stream flow alteration /NA	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010204042 – 0100 CENTENARY CREEK	Alteration in stream-side or littoral vegetative cover /NA Loss of biological integrity due to siltation /NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010204042 – 0300 SIX MILE CREEK	Escherichia coli /NA	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010204042 - 0311 UNNAMED TRIBUTARY TO BIG SPRINGS BRANCH	Temperature Alterations /L	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
TN06010204042 – 1000 NINE MILE CREEK	Loss of biological integrity due to siltation /NA Escherichia coli /NA	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
TN06010204043 – 0200 BINFIELD BRANCH	Escherichia coli /NA	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

TN06010204043 – 0300
LITTLE BAKER CREEK

Alteration in stream-side or littoral
vegetative cover /NA
Loss of biological integrity due to
siltation /NA

Yes

No

Yes

No

TN06010204043 – 1000
BAKER CREEK

Alteration in stream-side or littoral
vegetative cover /NA
Escherichia coli /NA

Yes

No

Yes

No

Appendix B

Section 2.B - TMDLs:



BLOUNT COUNTY GOVERNMENT

STORMWATER DEPARTMENT

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Small Municipal Separate Storm Sewer System (MS4) Annual Report

Blount County MS4

Annual Report: July 1, 2017 to June 30, 2018

Section 2.B: TMDL's other than Pathogens, Siltation, and Habitat Alteration

- 1.) Fort Loudoun Lake - TMDL for PCB's (3/3/2010)
- 2.) Little River – TMDL for PCB's (9/17/2009)
- 3.) Little Tennessee River – TMDL for E.coli (4/10/2006)

Appendix C

Section 2.C – List of ETWs:



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Small Municipal Separate Storm Sewer System (MS4) Annual Report

Blount County MS4

Annual Report: July 1, 2017 to June 30, 2018

Section 2.C: Exception Tennessee Waters

- 1.) **Little River** (06010201) - from Tennessee River to headwaters including tributaries from river mile 33.0 to origin.
- 2.) **Pistol Creek** (06010201) – from Little River to mile 1.2.



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Small Municipal Separate Storm Sewer System (MS4) Annual Report

Blount County MS4

Annual Report: July 1, 2017 to June 30, 2018

Section 5.A: Monitoring, Recordkeeping and Reporting

Streams sampled.

- 1.) **Peppermint Branch**
- 2.) **Polecat Creek**
- 3.) **Pistol Creek**



Department of Health

DIVISION OF LABORATORY SERVICES

Knoxville Regional Laboratory
2101 Medical Center Way
Knoxville, TN 37920
885-549-5201

Nashville Central Laboratory
630 Hart Lane
Nashville, TN 37243-0801
615-262-6300

Sent To: Bradley Smith
TDEC-DWR

Christie VonHatten
TDEC-DWR

Lab ID: K1708039
Knoxville Regional Laboratory

JACKSON, TN 38301
Greg Denton
TDEC-DWR
11th Floor Tennessee Tower
312 Rosa L. Parks Ave
Nashville, TN 37243

Knoxville, TN 37920
Leigh Yates
TDEC-DWR
3711 Middlebrook Pike
Knoxville, TN 37921

Sampling Agency: TDEC-DWR



TDEC-DWR.K1708039.E

This is to certify that the following results were determined using
good laboratory practices and in accordance with federal or state
approved methodologies.

Handwritten signature of Michael McWilliams

Michael McWilliams
Analytical Supervisor

Lab-Sample Number: K1708039-01
Project Name: TNPR0080
Sample Description:

External Id #: d/s A R Davis Road

Sampler Project Name: TNPR0080
Project Site No.: ELLEJ008.0BT
Station No.:
Date/Time Collected: 08/22/2017 11:01
Sampler's Name: DALE JAYNE
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/16/2017
Date/time Received: 08/22/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Rhodes

TEST: Coliforms by QT

METHOD: 9223-B

PERFORMING LAB: Knoxville Regional Laboratory

ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	517	MPN/100mL		Sara Farrell	8/23/2017

Lab-Sample Number: K1708039-02
Project Name: TNPR0080
Sample Description:

External Id #:

Sampler Project Name: TNPR0080
Project Site No.: FIELDBLANKKEFO
Station No.:
Date/Time Collected: 08/22/2017 11:02
Sampler's Name: DALE JAYNE
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/16/2017
Date/time Received: 08/22/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Rhodes

TEST: Coliforms by QT

METHOD: 9223-B

PERFORMING LAB: Knoxville Regional Laboratory

ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	<1	MPN/100mL		Sara Farrell	8/23/2017

Lab-Sample Number: K1708039-03
Project Name: TNPR0080
Sample Description:

External Id #: 200 yds d/s Ellejoy Road

Sampler Project Name: TNPR0080
Project Site No.: PITNE000.8BT
Station No.:
Date/Time Collected: 08/22/2017 11:19
Sampler's Name: DALE JAYNE
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/16/2017
Date/time Received: 08/22/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Rhodes

TEST: Coliforms by QT

METHOD: 9223-B

PERFORMING LAB: Knoxville Regional Laboratory

ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	1203	MPN/100mL		Sara Farrell	8/23/2017

Lab-Sample Number: K1708039-04
Project Name: TNPR0080
Sample Description:

External Id #: At Ellejoy Creek Road Crossing

Sampler Project Name: TNPR0080
Project Site No.: ELLEJ000.1BT
Station No.:
Date/Time Collected: 08/22/2017 11:34
Sampler's Name: JUSTIN TEAGUE
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/16/2017
Date/time Received: 08/22/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Rhodes

TEST: Coliforms by QT

METHOD: 9223-B

PERFORMING LAB: Knoxville Regional Laboratory

ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	291	MPN/100mL		Sara Farrell	8/23/2017

Lab-Sample Number: K1708039-05
Project Name: TNPR0080
Sample Description:

External Id #: Vacant lot, Peppermint Hills Rd

Sampler Project Name: TNPR0080
Project Site No.: PEPPE000.7BT
Station No.:
Date/Time Collected: 08/22/2017 11:56
Sampler's Name: JUSTIN TEAGUE
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/16/2017
Date/time Received: 08/22/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Rhodes

TEST: Coliforms by QT **METHOD: 9223-B**
PERFORMING LAB: Knoxville Regional Laboratory

ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	248	MPN/100mL		Sara Farrell	8/23/2017

Lab-Sample Number: K1708039-06
Project Name: TNPR0080
Sample Description:

External Id #: Vacant lot, Peppermint Hills Rd

Sampler Project Name: TNPR0080
Project Site No.: PEPPE000.7BT
Station No.:
Date/Time Collected: 08/22/2017 11:57
Sampler's Name: JUSTIN TEAGUE
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/16/2017
Date/time Received: 08/22/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Rhodes

TEST: Coliforms by QT

METHOD: 9223-B

PERFORMING LAB: Knoxville Regional Laboratory

ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	488	MPN/100mL		Sara Farrell	8/23/2017

Lab-Sample Number: K1708039-07
Project Name: TNPR0080
Sample Description:

External Id #: 80 yds u/s priv. drive off Andy Harris Rd

Sampler Project Name: TNPR0080
Project Site No.: WILDW000.1BT
Station No.:
Date/Time Collected: 08/22/2017 12:18
Sampler's Name: DALE JAYNE
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/16/2017
Date/time Received: 08/22/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Rhodes

TEST: Coliforms by QT

METHOD: 9223-B

PERFORMING LAB: Knoxville Regional Laboratory

ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	2420	MPN/100mL		Sara Farrell	8/23/2017

Lab-Sample Number: K1708039-08
Project Name: TNPR0080
Sample Description:

External Id #: Andy Harris Road Bridge

Sampler Project Name: TNPR0080
Project Site No.: NAILS000.7BT
Station No.:
Date/Time Collected: 08/22/2017 12:22
Sampler's Name: DALE JAYNE
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/16/2017
Date/time Received: 08/22/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Rhodes

TEST: Coliforms by QT

METHOD: 9223-B

PERFORMING LAB: Knoxville Regional Laboratory

ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	435	MPN/100mL		Sara Farrell	8/23/2017

Lab-Sample Number: K1708039-09
Project Name: TNPR0080
Sample Description:

External Id #: 100 yards u/s Unnamed Rd. off Roddy Branch Rd.

Sampler Project Name: TNPR0080
Project Site No.: RODDY000.6BT
Station No.:
Date/Time Collected: 08/22/2017 12:38
Sampler's Name: JUSTIN TEAGUE
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/16/2017
Date/time Received: 08/22/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Rhodes

TEST: Coliforms by QT

METHOD: 9223-B

PERFORMING LAB: Knoxville Regional Laboratory

ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	387	MPN/100mL		Sara Farrell	8/23/2017

Lab-Sample Number: K1708039-10
Project Name: TNPR0080
Sample Description:

External Id #: 100 yards u/s Singleton Road (Williams Mill Rd.)

Sampler Project Name: TNPR0080
Project Site No.: PISTO000.2BT
Station No.:
Date/Time Collected: 08/22/2017 12:51
Sampler's Name: JUSTIN TEAGUE
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/16/2017
Date/time Received: 08/22/2017

Agency Invoiced: TDEC-DWR
Received By: Ashley Rhodes

TEST: Coliforms by QT		METHOD: 9223-B			
PERFORMING LAB: Knoxville Regional Laboratory					
ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	166	MPN/100mL		Sara Farrell	8/23/2017

Lab-Sample Number: K1708039-11
Project Name: TNPR0080
Sample Description:

External Id #: 40 yds u/s RR Bridge, Pearly Smith Rd.

Sampler Project Name: TNPR0080
Project Site No.: POLEC001.0BT
Station No.:
Date/Time Collected: 08/22/2017 13:33
Sampler's Name: DALE JAYNE
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/16/2017
Date/time Received: 08/22/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Rhodes

TEST: Coliforms by QT		METHOD: 9223-B			
PERFORMING LAB: Knoxville Regional Laboratory					
ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	206	MPN/100mL		Sara Farrell	8/23/2017



PROJECT NAME:	303(d)	WATERBODY NAME:	Ellejoy Creek	* Metals	
STATION NUMBER:	ELLEJ008.0BT	COUNTY:	Blount - 05	aluminum, Al	
STREAM MILE:	8.0			antimony, Sb	
DESCRIPTION:	dis A R Davis Road			arsenic, As	
LATITUDE:	35.8000	LONGITUDE:	-83.7730	barium, Ba	
MATRIX:	water	Depth:		beryllium, Be	
COLLECTED:	DATE 8/22/17	TIME 1101		boron, B	
SAMPLER'S FULL NAME (printed)	Bale Gajjar			cadmium, Cd	
SAMPLING AGENCY:	DWR-KEFO			calcium, Ca	
IF PRIORITY, DATE NEEDED:				chromium, Cr	
SEND REPORT TO: L. Yates & C. VonHatten, DWR-KEFO; cc: G. Denton	BILLING CODE	EN00019126		cobalt, Co	
* Env. Microbiology	* Gen. Inorganics (con't)	Other General Inorganics:		copper, Cu	
coliform, fecal*	ortho-phosphate			iron, Fe	
coliform, total*	silica*			lithium, Li	
strep. fecal*	sulfate*			lead, Pb	
X E. Coli*	turbidity*			magnesium, Mg	
Enterococcus*	Preserved, Nutrient			manganese, Mn	
* General Inorganics	COD*			mercury, Hg	
Not Preserved	nitrogen, ammonia			nickel, Ni	
acidity as CaCO ₃ *	nitrogen, NO ₃ & NO ₂			potassium, K	
alkalinity as CaCO ₃ *	nitrogen, total Kjeldahl			selenium, Se	
BOD, 5-day*	nitrogen, total organic			silver, Ag	
C3BOD, 5-day*	phosphate, total			sodium, Na	
chloride*				strontium, Sr	
chromium, hexavalent	SPECIAL PRESERVATION			thallium, Tl	
color	cyanide			vanadium, V	
conductivity*	oil and grease			zinc, Zn	
fluoride*	phenols, total			hardness, Ca as CaCO ₃ *	
MBAS*	sulfide, total*			hardness, total as CaCO ₃ *	
nitrogen, nitrate*	TOC*				
nitrogen, nitrite*				Other Metals:	
pH					
residue, dissolved*	Asbestos				
residue, settleable*	bulk asbestos				
residue, suspended*	other microscopic				
residue, total*					

* denotes analyses performed only on water

FIELD DETERMINATIONS		Other Field Parameters:	
Conductivity, (umhos)	Chlorine, residual (mg/L)		
Dissolved Oxygen, (mg/L)	Turbidity, (NTU)		
Temperature, (°C)	ORP, (mv)		
pH	Flow Rate		

Laboratory Number
K1708039-01-01

C: 08222017 1101
sample set or point (if all collected at the same time)

1. Collected by JD DOWD
Date 8/22/17 Time 1101
Delivered to KEL
 2. Received by A. Khodas
Date 8-22-17 Time 13:57
 3. Received by
Date
Time
 4. Received in Lab by A. Khodas
Date 8/22/17 Time 1357
 5. Received in Lab by
Date
Time
 6. Received in Lab by
Date
Time
- Logged in by A. Khodas
Date 8/22/17 Time 1530
- Additional Information
1. Others present at collection
 2. Other samples collected
 3. Mode of transportation to lab
locked State vehicle
 4. Cooler sealed by
 5. Date cooler sealed
 6. Remarks

ELLEJ008.0BT



FIELD BLANK

PROJECT NAME:	QC	WATERBODY NAME:	Blount-05		
STATION NUMBER:	FIELD BLANK KEFO	COUNTY:	Blount-05		
STREAM MILE:					
DESCRIPTION:					
LATITUDE:		LONGITUDE:			
MATRIX: water		Depth:			
COLLECTED:	DATE 8/22/17	TIME 1102			
SAMPLER'S FULL NAME (printed):	Date Sawyer				
SAMPLING AGENCY:	DWR-KEFO				
IF PRIORITY, DATE NEEDED:		BILLING CODE	EN00019126		
SEND REPORT TO:	C. VonHatten, DWR-KEFO; cc: G. Denton DWR-NCO				
* Env. Microbiology		* Gen. Inorganics (con't)			* Other General Inorganics:
coliform, fecal*		ortho-phosphate			
coliform, total*		silica*			
strep. fecal*		sulfate*			
X E. Coli*		turbidity*			
Enterococcus*		Preserved, Nutrient			
		COI*			
* General Inorganics		nitrogen, ammonia			
Not Preserved		nitrogen, NO ₃ & NO ₂			
acidity as CaCO ₃ *		nitrogen, total Kjeldahl			
alkalinity as CaCO ₃ *		nitrogen, total organic			
BOD, 5-day*		phosphate, total			
CBOD, 5-day*					
chloride*		SPECIAL PRESERVATION			
chromium, hexavalent		cyanide			
color		oil and grease			
conductivity*		phenols, total			
fluoride*		sulfide, total*			
MBAS*		TOC*			
nitrogen, nitrate*					
nitrogen, nitrite*					
pH					
residue, dissolved*		Asbestos			
residue, settleable*		bulk asbestos			
residue, suspended*		other microscopic			
residue, total*					

* denotes analyses performed only on water

FIELD DETERMINATIONS		Other Field Parameters:	
Conductivity, (umhos)	Chlorine, residual		
Dissolved Oxygen, (mg/L)	Turbidity, (NTU)		
Temperature, (°C)	ORP, (mv)		
pH	Flow Rate		

Laboratory Number
K1708039-02-01

C 08822017 1102

sample set or point (if all collected at the same time)

1. Collected By: Date Sawyer

Date: 8/22/17 Time: 1102

Delivered to: KRL

Date: 8-22-17 Time: 13:57

2. Received by: A Rhoads

Date: 8/22/17 Time: 1357

Delivered to:

Date: _____ Time: _____

3. Received by:

Date: _____ Time: _____

Delivered to:

Date: _____ Time: _____

4. Received in Lab by: A Rhoads

Date: 8/22/17 Time: 1357

5. Received in Lab by:

Date: _____ Time: _____

6. Received in Lab by:

Date: 8/22/17 Time: 1530

Additional Information

1. Others present at collection

2. Other samples collected

3. Mode of transportation to lab

4. Cooler sealed by

5. Date cooler sealed

6. Remarks

FIELD BLANK



PROJECT NAME:	303(d)	WATERBODY NAME:	Pinner Branch	Metals	
STATION NUMBER:	PITNE000.8BT	COUNTY:	Blount - 05	aluminum, Al	
STREAM MILE:	0.8	LATITUDE:	35.81027	antimony, Sb	
DESCRIPTION:	200 yds d/s Ellicoy Road	LONGITUDE:	-83.76829	arsenic, As	
MATRIX:	water	Depth:		barium, Ba	
COLLECTED:	DATE 5/22/17	TIME:	1119	beryllium, Be	
SAMPLER'S FULL NAME (printed):	Dale Stays			boron, B	
SAMPLING AGENCY:	DWR-KEFO	BILLING CODE:	EN00019126	cadmium, Cd	
IF PRIORITY, DATE NEEDED:				calcium, Ca	
SEND REPORT TO:	L. Yates & C. VonHatten, DWR-KEFO, cc: G. Denton			chromium, Cr	
* Env. Microbiology	* Gen. Inorganics (con %)	Other General Inorganics:		cobalt, Co	
coliform, fecal*	ortho-phosphate			copper, Cu	
coliform, total*	silica*			iron, Fe	
strept. fecal*	sulfate*			lithium, Li	
E. Coli*	turbidity*			lead, Pb	
Enterococcus*	Preserved, Nutrient			magnesium, Mg	
* General Inorganics				manganese, Mn	
Not Preserved				mercury, Hg	
acidity as CaCO ₃ *	nitrogen, ammonia			nickel, Ni	
alkalinity as CaCO ₃ *	nitrogen, NO ₃ & NO ₂			potassium, K	
BOD, 5-day*	nitrogen, total Kjeldahl			selenium, Se	
CBOD, 5-day*	nitrogen, total organic			silver, Ag	
chloride*	phosphate, total			sodium, Na	
chromium, hexavalent	SPECIAL PRESERVATION			strontium, Sr	
color	cyanide			thallium, Tl	
conductivity*	oil and grease			vanadium, V	
fluoride*	phenols, total			zinc, Zn	
MIBAS*	sulfide, total*			hardness, Ca as CaCO ₃ *	
nitrogen, nitrate*	TOC*			hardness, total as CaCO ₃ *	
nitrogen, nitrite*					
pH				Other Metals:	
residue, dissolved*	Asbestos				
residue, settleable*	bulk asbestos				
residue, suspended*	other microscopic				
residue, total*					

* denotes analyses performed only on water

FIELD DETERMINATIONS	Other Field Parameters:
Conductivity, (umhos)	Chlorine, residual (mg/L)
Dissolved Oxygen, (mg/L)	Turbidity, (NTU)
Temperature, (°C)	ORP, (mv)
pH	Flow Rate

Laboratory Number
K1708039-03-01

C: 08222017 1419

sample set or point (if all collected at the same time)

1. Collected By: Dale Stays
Date: 5/22/17 Time: 1119

2. Received by: A. Rhoads
Date: 5-23-17 Time: 13:57

3. Received by: [blank]
Date: 8/22/17 Time: 1357

4. Received in Lab by: A. Rhoads
Date: 8/22/17 Time: 1357

5. Received in Lab by: [blank]
Date: [blank] Time: [blank]

6. Received in Lab by: [blank]
Date: [blank] Time: [blank]

Additional Information

1. Others present at collection

2. Other samples collected

3. Mode of transportation to lab
locked State vehicle

4. Cooler sealed by

5. Date cooler sealed

6. Remarks

PITNE000.8BT



PROJECT NAME:	303(d)	WATERBODY NAME:	Ellejoy Creek	* Metals	
STATION NUMBER:	ELLEJ000.1BT	COUNTY:	Blount - 05	aluminum, Al	
STREAM MILE:	0.1			antimony, Sb	
DESCRIPTION:	At Ellejoy Creek Road Crossing			arsenic, As	
LATITUDE:	35.77325	LONGITUDE:	-83.84909	barium, Ba	
MATRIX:	water	Depth:		beryllium, Be	
COLLECTED:	DATE 8/22/17	TIME 1314		boron, B	
SAMPLER'S FULL NAME (printed)	Justin Teague			cadmium, Cd	
SAMPLING AGENCY:	DWR-KEFO			calcium, Ca	
IF PRIORITY, DATE NEEDED:		BILLING CODE	EN00019126	chromium, Cr	
SEND REPORT TO: L. Yates & C. Vorhatten, DWR-KEFO, cc: G. Denton				cobalt, Co	
* Env. Microbiology:		Gen. Inorganics (con't)		Other General Inorganics:	
coliform, fecal*		ortho-phosphate			
coliform, total*		silica*			
strep. fecal*		sulfate*			
E. Coli*		turbidity*			
Enterococcus*		Preserved, Nutrient			
		COD*			
* General Inorganics		nitrogen, ammonia			
Not Preserved		nitrogen, NO ₃ & NO ₂			
acidity as CaCO ₃ *		nitrogen, total Kjeldahl			
alkalinity as CaCO ₃ *		nitrogen, total organic			
BOD, 5-day*		phosphate, total			
CBOD, 5-day*					
chloride*		SPECIAL PRESERVATION			
chromium, hexavalent		color			
conductivity*		oil and grease			
fluoride*		phenols, total			
MBAS*		sulfide, total*			
nitrogen, nitrate*		TOC*			
nitrogen, nitrite*					
pH					
residue, dissolved*		Asbestos			
residue, settleable*		bulk asbestos			
residue, suspended*		other microscopic			
residue, total*					

* denotes analyses performed only on water

FIELD DETERMINATIONS

Conductivity, (umhos)	Chlorine, residual (mg/L)	Other Field Parameters:
Dissolved Oxygen, (mg/L)	Turbidity, (NTU)	
Temperature, (°C)	ORP, (mv)	
	Flow Rate	
pH		

Laboratory Number
K1708039-04-01

C: 08/22/2017 1134 0

One year warranty on warranty form is required per sample set or point (if all collected at the same time)

1. Collected by B.S. Teague
Date 8/22/17 Time 1134
2. Received by A. Rhoads
Date 8-23-17 Time 13:57
3. Received by
Date
Time
4. Received in Lab by A. Rhoads
Date 8/22/17 Time 1357
5. Received in Lab by
Date
Time
6. Received in Lab by
Date
Time

Logged in by A. Rhoads
Date 8/22/17 Time 1330

- Additional Information
1. Others present at collection
 2. Other samples collected
 3. Mode of transportation to lab
locked State vehicle
 4. Cooler sealed by
 5. Date cooler sealed

6. Remarks
ELLEJ000.1BT



PROJECT NAME:	303(d)	WATERBODY NAME:	Peppermint Branch	* Metals	
STATION NUMBER:	PEPPE000.7BT	COUNTY:	Blount - 05	aluminum, Al	
STREAM MILE:	0.7			antimony, Sb	
DESCRIPTION:	Vacant lot, Peppermint Hills Rd			arsenic, As	
LATITUDE:	35.79074	LONGITUDE:	-83.89604	barium, Ba	
MATRIX:	water	Depth:		beryllium, Be	
COLLECTED:	DATE 8-22-17	TIME 11:56		boron, B	
SAMPLER'S FULL NAME (printed)	Justin Teague			cadmium, Cd	
SAMPLING AGENCY:	DWR-KEFO			calcium, Ca	
IF PRIORITY, DATE NEEDED:				chromium, Cr	
SEND REPORT TO: L. Yates & C. Vonhatten, DWR-KEFO, cc: G. Denton	BILLING CODE	EN00019126		cobalt, Co	
* Env. Microbiology	* Gen. Inorganics (cont)	Other General Inorganics:		chromium, Cr	
coliform, fecal*	ortho-phosphate			cobalt, Co	
coliform, total*	silica*			copper, Cu	
strep, fecal*	sulfate*			iron, Fe	
X E. Coli*	turbidity*			lithium, Li	
Enterococcus*	Preserved, Nutrient			lead, Pb	
	COD*			magnesium, Mg	
* General Inorganics	nitrogen, ammonia			manganese, Mn	
Not Preserved	nitrogen, NO ₃ & NO ₂			mercury, Hg	
acidity as CaCO ₃ *	nitrogen, total Kjeldahl			nickel, Ni	
alkalinity as CaCO ₃ *	nitrogen, total organic			potassium, K	
BOD, 5-day*	phosphate, total			selenium, Se	
CBOD, 5-day*				silver, Ag	
chloride*				sodium, Na	
chromium, hexavalent	SPECIAL PRESERVATION			strontium, Sr	
color	cyanide			thallium, Tl	
conductivity*	oil and grease			vanadium, V	
fluoride*	phenols, total			zinc, Zn	
MBAS*	sulfide, total*			hardness, Ca as CaCO ₃ *	
nitrogen, nitrate*	TOC*			hardness, total as CaCO ₃ *	
nitrogen, nitrite*					
pH				Other Metals:	
residue, dissolved*	Asbestos				
residue, settleable*	bulk asbestos				
residue, suspended*	other microscopic				
residue, total*					

* denotes analyses performed only on water

FIELD DETERMINATIONS

Conductivity, (umhos)	Chlorine, residual (mg/L)	Other Field Parameters:
Dissolved Oxygen, (mg/L)	Turbidity, (NTU)	
Temperature, (°C)	ORP, (mv)	
pH	Flow Rate	

Laboratory Number

K1708039-05-01



C: 08/22/2017 14:01

sample set or point (if all collected at the same time)

1. Collected By Justin Teague
Date 8-22-17 Time 11:56
Delivered to: KRL

2. Received by A. Rhodes
Date 8-22-17 Time 13:57

Date 8/22/17 Time 13:57

Date 8/22/17 Time 13:57

Date 8/22/17 Time 13:57

Date 8/22/17 Time 13:57

Date 8/22/17 Time 13:57

Date 8/22/17 Time 13:57

Date 8/22/17 Time 13:57

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Date 8/22/17 Time 13:57

Date 8/22/17 Time 13:57

Date 8/22/17 Time 13:57

Date 8/22/17 Time 13:57

Date 8/22/17 Time 13:57



FIELD DUPLICATE

Inorganic Analysis

PROJECT NAME:	303(d)	WATERBODY NAME:	Peppermint Branch	* Metals	
STATION NUMBER:	PEPPE000.7BT	COUNTY:	Blount - 05	aluminum, Al	
STREAM MILE:	0.7	LATITUDE:	35.79074	antimony, Sb	
DESCRIPTION:	Vacant lot, Peppermint Hills Rd	LONGITUDE:	-83.89604	arsenic, As	
MATRIX:	water	Depth:		barium, Ba	
COLLECTED:	DATE 8-22-17	TIME 11:57		beryllium, Be	
SAMPLER'S FULL NAME (printed)	Justin Taylor			boron, B	
SAMPLING AGENCY:	DWR-KEFO	BILLING CODE:	EN00019126	cadmium, Cd	
IF PRIORITY, DATE NEEDED:				calcium, Ca	
SEND REPORT TO: I. Yates & C. VonHatten, DWR-KEFO, cc: G. Denton				chromium, Cr	
* Env. Microbiology				cobalt, Co	
coliform, fecal*	ortho-phosphate			copper, Cu	
coliform, total*	silica*			iron, Fe	
strep, fecal*	sulfate*			lithium, Li	
X E. Coli*	turbidity*			lead, Pb	
Enterococcus*	Preserved, Nutrient			magnesium, Mg	
	COD*			manganese, Mn	
* General Inorganics				mercury, Hg	
Not Preserved	nitrogen, ammonia			nickel, Ni	
acidity as CaCO ₃ *	nitrogen, NO ₃ & NO ₂			potassium, K	
alkalinity as CaCO ₃ *	nitrogen, total Kjeldahl			selenium, Se	
BOD, 5-day*	nitrogen, total organic			silver, Ag	
CBOD, 5-day*	phosphate, total			sodium, Na	
chloride*				strontium, Sr	
chromium, hexavalent	SPECIAL PRESERVATION			thallium, Tl	
color	cyanide			vanadium, V	
conductivity*	oil and grease			zinc, Zn	
fluoride*	phenols, total			hardness, Ca as CaCO ₃ *	
MIBAS*	sulfide, total*			hardness, total as CaCO ₃ *	
nitrogen, nitrate*	TOC*				
nitrogen, nitrite*				Other Metals:	
pH					
residue, dissolved*	Asbestos				
residue, settleable*	bulk asbestos				
residue, suspended*	other microscopic				
residue, total*					

* denotes analyses performed only on water

FIELD DETERMINATIONS

Conductivity, (umhos)	Chlorine, residual (mg/L)	Other Field Parameters:
Dissolved Oxygen, (mg/L)	Turbidity, (NTU)	
Temperature, (°C)	ORP, (mv)	
pH	Flow Rate	

1. Laboratory Number
K1708039-06-01
C: 08222017 1101
0
sample set or point (if all collected at the same time)

1. Collected By *Justin Taylor*
Date *8-22-17* Time *11:57*
Delivered to: *KRL*
Date *8-22-17* Time *13:57*
2. Received by *A. Rhoads*
Date *8/22/17* Time *1357*
3. Received by
Date
4. Received in Lab by
Date
5. Received in Lab by
Date
6. Received in Lab by
Date
Logged in by *A. Rhoads*
Date *8/22/17* Time *1530*

Additional Information
1. Others present at collection
2. Other samples collected
3. Mode of transportation to lab
locked State vehicle
4. Cooler sealed by
5. Date cooler sealed
6. Remarks
PEPPE000.7BT



PROJECT NAME:	303(d)	WATERBODY NAME:	Wildwood Branch	* Metals	
STATION NUMBER:	WILDW000.1BT	COUNTY:	Blount - 05	aluminum, Al	
STREAM MILE:	0.1			antimony, Sb	
DESCRIPTION:	80 yds w/s priv. drive off Andy Harris Rd			arsenic, As	
LATITUDE:	35.81218	LONGITUDE:	-83.88255	barium, Ba	
MATRIX:	water	Depth:		beryllium, Be	
COLLECTED:	DATE 8-22-17	TIME 12:18		boron, B	
SAMPLER'S FULL NAME (printed)	51 Day	Date	8-22-17	cadmium, Cd	
SAMPLING AGENCY:	DWR-KEFO			calcium, Ca	
IF PRIORITY, DATE NEEDED:		BILLING CODE	EN00019126	chromium, Cr	
SEND REPORT TO: L. Yates & C. VonHatten, DWR-KEFO, cc: G. Denton				cobalt, Co	
* Env. Microbiology				copper, Cu	
coliform, fecal*		Gen. Inorganics (con't)		iron, Fe	
coliform, total*		ortho-phosphate		lithium, Li	
strep. fecal*		silica*		lead, Pb	
X E. Coli*		sulfate*		magnesium, Mg	
Enterococcus*		turbidity*		manganese, Mn	
		Preserved, Nutrient		mercury, Hg	
		COD*		nickel, Ni	
* General Inorganics		nitrogen, ammonia		potassium, K	
Not Preserved		nitrogen, NO ₂ & NO ₃		selenium, Se	
acidity as CaCO ₃ *		nitrogen, total Kjeldahl		silver, Ag	
alkalinity as CaCO ₃ *		nitrogen, total organic		sodium, Na	
BOD, 5-day*		phosphate, total		strontium, Sr	
CBOD, 5-day*				thallium, Tl	
chloride*		SPECIAL PRESERVATION		vanadium, V	
chromium, hexavalent		cyanide		zinc, Zn	
color		oil and grease		hardness, Ca as CaCO ₃ *	
conductivity*		phenols, total		hardness, total as CaCO ₃ *	
fluoride*		sulfide, total*			
MBAS*		TOC*		Metals Digestion type:	
nitrogen, nitrate*				Normal	
nitrogen, nitrite*				Dissolved	
pH				TCLP	
residue, dissolved*				Other:	
residue, settleable*		Asbestos			
residue, suspended*		bulk asbestos		Other Metals:	
residue, total*		other microscopic			

* denotes analyses performed only on water

FIELD DETERMINATIONS

Conductivity, (umhos)	Chlorine, residual (mg/L)	Other Field Parameters:
Dissolved Oxygen, (mg/L)	Turbidity, (NTU)	
Temperature, (°C)	ORP, (mv)	
pH	Flow Rate	

Laboratory Number

K1708039-07-01



C: 08/22/2017 12:18 0

sample set or point (if all collected at the same time)

1. Collected By *Della Payne*
Date 8-22-17 Time 12:18
2. Received by *A. Rhoads*
Date 8-22-17 Time 13:57
3. Received by
Date
Time
4. Received in Lab by *A. Rhoads*
Date 8/22/17 Time 13:57
5. Received in Lab by
Date
Time
6. Received in Lab by
Date
Time

Additional Information

1. Others present at collection
2. Other samples collected
3. Mode of transportation to lab
locked State vehicle
4. Cooler sealed by
5. Date cooler sealed
6. Remarks

WILDW000.1BT



PROJECT NAME:	303(d)	WATERBODY NAME:	Nails Creek	*	Metals	
STATION NUMBER:	NAHLS000.7BT	COUNTY:	Blount - 05		aluminum, Al	
STREAM MILE:	0.7				antimony, Sb	
DESCRIPTION:	Andy Harris Road Bridge				arsenic, As	
LATITUDE:	35.81360	LONGITUDE:	-83.88261		barium, Ba	
MATRIX:	water	Depth:			beryllium, Be	
COLLECTED:	DATE 8-22-17	TIME 12:22			boron, B	
SAMPLER'S FULL NAME (printed)	Dale Payne				cadmium, Cd	
SAMPLING AGENCY:	DWR-KIEFO				calcium, Ca	
IF PRIORITY, DATE NEEDED:					chromium, Cr	
SEND REPORT TO: L. Yates & C. VonHatten, DWR-KIEFO, cc: G. Denton	BILLING CODE	EN00019126			cobalt, Co	
* Env. Microbiology	* Gen. Inorganics (con't)	Other General Inorganics:				
coliform, fecal*	ortho-phosphate				copper, Cu	
coliform, total*	silica*				iron, Fe	
strep. fecal*	sulfate*				lithium, Li	
E. Coli*	turbidity*				lead, Pb	
Enterococcus*	Preserved, Nutrient				magnesium, Mg	
	COD*				manganese, Mn	
* General Inorganics	nitrogen, ammonia				mercury, Hg	
Not Preserved	nitrogen, NO ₃ & NO ₂				nickel, Ni	
acidity as CaCO ₃ *	nitrogen, total Kjeldahl				potassium, K	
alkalinity as CaCO ₃ *	nitrogen, total organic				selenium, Se	
BOD, 5-day*	phosphate total				silver, Ag	
CROD, 5-day*					sodium, Na	
chloride*					strontium, Sr	
chromium, hexavalent	SPECIAL PRESERVATION				thallium, Tl	
color	cyanide				vanadium, V	
conductivity*	oil and grease				zinc, Zn	
fluoride*	phenols, total				hardness, Ca as CaCO ₃ *	
MBAS*	sulfide, total*				hardness, total as CaCO ₃ *	
nitrogen, nitrate*	TOC*					
nitrogen, nitrite*					Other Metals:	
pH						
residue, dissolved*	Asbestos					
residue, settleable*	bulk asbestos					
residue, suspended*	other microscopic					
residue, total*						

* denotes analyses performed only on water

FIELD DETERMINATIONS

Conductivity, (umhos)	Chlorine, residual (mg/L)	Other Field Parameters:
Dissolved Oxygen, (mg/L)	Turbidity, (NTU)	
Temperature, (°C)	ORP, (mv)	
pH	Flow Rate	

Laboratory Number
K1708039-08-01
C: 08/22/2017 12:22
0

sample set or point (if all collected at the same time)

1. Collected By Dale Payne
Date 8-22-17 Time 12:22
Delivered to: KRL
Date 8-22-17 Time 13:57
2. Received by A. Knecht
Date 8/22/17 Time 13:57
Delivered to
Date
3. Received by
Date
4. Received in Lab by A. Knecht
Date 8/22/17 Time 13:57
5. Received in Lab by
Date
6. Received in Lab by
Date

Additional Information
1. Others present at collection
2. Other samples collected
3. Mode of transportation to lab
locked State vehicle
4. Cooler sealed by
5. Date cooler sealed
6. Remarks
NAHLS000.7BT



PROJECT NAME:	303(d)	WATERBODY NAME:	Roddy Branch	* Metals	aluminum, Al antimony, Sb arsenic, As barium, Ba beryllium, Be boron, B cadmium, Cd calcium, Ca chromium, Cr cobalt, Co copper, Cu iron, Fe lithium, Li lead, Pb magnesium, Mg manganese, Mn mercury, Hg nickel, Ni potassium, K selenium, Se silver, Ag sodium, Na strontium, Sr thallium, Tl vanadium, V zinc, Zn hardness, Ca as CaCO ₃ * hardness, total as CaCO ₃ *
STATION NUMBER:	RODDY000.6BT	COUNTY:	Blount - 05	Laboratory Number	K1708039-09-01
STREAM MILE:	0.6	DESCRIPTION:	100 yards u/s Unnamed Rd. off Roddy Branch Rd.		sample set or print (if all collected at the same time)
LATITUDE:	35.85472	LONGITUDE:	-83.92823	Depth:	0
MATRIX:	water	DATE:	8/22/17	TIME:	1238
COLLECTED:		DATE:	8/22/17	TIME:	1357
SAMPLER'S FULL NAME (printed):	J. Teague	DATE:	8/22/17	TIME:	1357
SAMPLING AGENCY:	DWR-KEFO	BILLING CODE:	EN00019126	Other General Inorganics:	
IF PRIORITY, DATE NEEDED:		SEND REPORT TO:	L. Yates & C. VonHatten, DWR-KEFO, cc: G. Denton	Additional Information	1. Others present at collection 2. Other samples collected 3. Mode of transportation to lab 4. Cooler sealed by 5. Date cooler sealed 6. Remarks
* Env. Microbiology:	coliform, fecal* coliform, total* strep. fecal* E. Coli* Enterococcus*	* Gen. Inorganics (con't):	ortho-phosphate silica* sulfate* turbidity* COD* nitrogen, ammonia nitrogen, NO ₃ & NO ₂ nitrogen, total Kjeldahl nitrogen, total organic phosphate, total	Other Field Parameters:	
* General Inorganics	Not Preserved acidity as CaCO ₃ * alkalinity as CaCO ₃ * BOD, 5-day* CBOD, 5-day* chloride* chromium, hexavalent color conductivity* fluoride* MBAS* nitrogen, nitrate* nitrogen, nitrite* pH residue, dissolved* residue, settleable* residue, suspended* residue, total*	SPECIAL PRESERVATION:	oil and grease phenols, total sulfide, total* TOC* TCLP Other:	Other Metals:	

* denotes analyses performed only on water

FIELD DETERMINATIONS

Conductivity, (umhos)	Chlorine, residual (mg/L)	Turbidity, (NTU)	Other Field Parameters:
Dissolved Oxygen, (mg/L)	ORP, (mv)	Flow Rate	
Temperature, (°C)			
pH			



PROJECT NAME:	303(d)	WATERBODY NAME:	Pistol Creek	* Metals	
STATION NUMBER:	PISTO000.2BT	COUNTY:	Blount - 05	aluminum, Al	
STREAM MILE:	0.2			antimony, Sb	
DESCRIPTION:	100 yards w/s Singleton Road (Williams Mill Rd.)			arsenic, As	
LATITUDE:	35.8175	LONGITUDE:	-83.9434	barium, Ba	
MATRIX:	water	Depth:		beryllium, Be	
COLLECTED:	DATE <u>8/22/17</u>	TIME <u>1257</u>		boron, B	
SAMPLER'S FULL NAME (printed)	<u>Justin Teague</u>			cadmium, Cd	
SAMPLING AGENCY:	DWR-KEFO	BILLING CODE	EN00019126	calcium, Ca	
IF PRIORITY, DATE NEEDED:				chromium, Cr	
SEND REPORT TO: L. Yales & C. Vonlatten, DWR-KEFO; cc: G. Denton				cobalt, Co	
* Env. Microbiology:		Other General Inorganics:		copper, Cu	
coliform, fecal*	ortho-phosphate			iron, Fe	
coliform, total*	silica*			lithium, Li	
slmp, fecal*	sulfate*			lead, Pb	
X E. Coli*	turbidity*			magnesium, Mg	
Enterococcus*	Preserved, Nutrient			manganese, Mn	
	COD*			mercury, Hg	
* General Inorganics	nitrogen, ammonia			nickel, Ni	
Not Preserved	nitrogen, NO ₂ & NO ₃			potassium, K	
acidity as CaCO ₃ *	nitrogen, total Kjeldahl			selenium, Se	
alkalinity as CaCO ₃ *	nitrogen, total organic			silver, Ag	
BOD, 5-day*	phosphate, total			sodium, Na	
CBOD, 5-day*				strontium, Sr	
chloride*				thallium, Tl	
chromium, hexavalent	SPECIAL PRESERVATION			vanadium, V	
color	cyanide			zinc, Zn	
conductivity*	oil and grease			hardness, Ca as CaCO ₃ *	
fluoride*	phenols, total			hardness, total as CaCO ₃ *	
MBAS*	sulfide, total*				
nitrogen, nitrate*	TOC*				
nitrogen, nitrite*				Other Metals:	
pH					
residue, dissolved*	Asbestos				
residue, settleable*	bulk asbestos				
residue, suspended*	other microscopic				
residue, total*					

* denotes analyses performed only on water

Laboratory Number

K1708039-10-01



C: 08222017 1251

0

FIELD DETERMINATIONS

Conductivity, (umhos)	Chlorine, residual (mg/L)	Other Field Parameters:
Dissolved Oxygen, (mg/L)	Turbidity, (NTU)	
Temperature, (°C)	ORP, (mv)	
pH	Flow Rate	



PROJECT NAME:	303(d)	WATERBODY NAME:	Polecat Creek	* Metals	aluminum, Al antimony, Sb arsenic, As barium, Ba beryllium, Be boron, B cadmium, Cd calcium, Ca chromium, Cr cobalt, Co copper, Cu iron, Fe lithium, Li lead, Pb magnesium, Mg manganese, Mn mercury, Hg nickel, Ni potassium, K selenium, Se silver, Ag sodium, Na strontium, Sr thallium, Tl vanadium, V zinc, Zn
STATION NUMBER:	POLFC001.0BT	COUNTY:	Blount - 05		hardness, Ca as CaCO ₃ * hardness, total as CaCO ₃ *
STREAM MILE:	1.0	DEPTH:	5.5		
DESCRIPTION:	40 yds up RR Bridge, Pearly Smith Rd.	LATITUDE:	35.84909		
		LONGITUDE:	-83.98046		
MATRIX:	water	DATE:	8/24/17		
COLLECTED:		TIME:	1355		
SAMPLER'S FULL NAME (printed):	Dave Starnes	DEPTH:	5.5		
SAMPLING AGENCY:	DWR-KEFO	BILLING CODE:	EN00019126		
IF PRIORITY, DATE NEEDED:					
SEND REPORT TO: L. Yates & C. VonHatten, DWR-KEFO, cc: G. Denton					
* Env. Microbiology		* Gen. Inorganics (cont)		* Other General Inorganics:	
coliform, fecal*		ortho-phosphate			
coliform, total*		silica*			
strep, fecal*		sulfate*			
E. Coli*		turbidity*			
Enterococcus*		Preserved, Nutrient			
* General Inorganics		COD*			
Not Preserved		nitrogen, ammonia			
acidity as CaCO ₃ *		nitrogen, NO ₃ & NO ₂			
alkalinity as CaCO ₃ *		nitrogen, total Kjeldahl			
BOD, 5-day*		nitrogen, total organic			
CBOD, 5-day*		phosphate, total			
chloride*					
chromium, hexavalent		SPECIAL PRESERVATION			
color		cyanide			
conductivity*		oil and grease			
fluoride*		phenols, total			
MBAS*		sulfide, total*			
nitrogen, nitrate*		TOC*			
nitrogen, nitrite*					
pH					
residue, dissolved*		Asbestos			
residue, settleable*		bulk asbestos			
residue, suspended*		other microscopic			
residue, total*					

* denotes analyses performed only on water

FIELD DETERMINATIONS

Conductivity, (umhos)	Chlorine, residual (mg/L)	Turbidity, (NTU)	Other Field Parameters:
Dissolved Oxygen, (mg/L)	ORP, (mv)	Flow Rate	
Temperature, (°C)			
pH			

Laboratory Number
K1708039-11-01
C: 08/22/2017 13:33
0
sample set or point (if all collected at the same time)

1. Collected By: *D. Starnes*
Date: *8/24/17* Time: *1355*
Delivered to: *KRL*
Date: *8-29-17* Time: *13:57*
2. Received by: *A. Rhoads*
Date: *8/22/17* Time: *1357*
Delivered to:
Date:
3. Received by:
Date:
Delivered to:
Date:
4. Received in Lab by: *A. Rhoads*
Date: *8/22/17* Time: *1357*
5. Received in Lab by:
Date:
6. Received in Lab by:
Date:
Logged in by: *A. Rhoads*
Date: *8/22/17* Time: *1530*

Additional Information

- 1. Others present at collection
- 2. Other samples collected
- 3. Mode of transportation to lab
- 4. C cooler sealed by
- 5. Date cooler sealed
- 6. Remarks

POLFC001.0BT



Department of Health

DIVISION OF LABORATORY SERVICES

Knoxville Regional Laboratory
2101 Medical Center Way
Knoxville, TN 37920
885-549-5201

Nashville Central Laboratory
630 Hart Lane
Nashville, TN 37243-0801
615-262-6300

Sent To: Christie VonHatten
TDEC-DWR

Greg Denton
TDEC-DWR
11th Floor Tennessee Tower
312 Rosa L. Parks Ave
Nashville, TN 37243

Lab ID: K1708052
Knoxville Regional Laboratory

Knoxville, TN 37920
Leigh Yates
TDEC-DWR
3711 Middlebrook Pike

Knoxville, TN 37921

Sampling Agency: TDEC-DWR



TDEC-DWR.K1708052.E

This is to certify that the following results were determined using
good laboratory practices and in accordance with federal or state
approved methodologies.

Handwritten signature of Michael McWilliams

Michael McWilliams
Analytical Supervisor

Lab-Sample Number: K1708052-01
Project Name: TNPR0080
Sample Description:

External Id #: 200 yds d/s Ellejoy Road

Sampler Project Name: TNPR0080
Project Site No.: PITNE000.8BT
Station No.:
Date/Time Collected: 08/30/2017 09:40
Sampler's Name: Dale Jayne
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/24/2017
Date/time Received: 08/30/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Carroll

TEST: Coliforms by QT

METHOD: 9223-B

PERFORMING LAB: Knoxville Regional Laboratory

ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	387	MPN/100mL		Ashley Carroll	8/31/2017

Lab-Sample Number: K1708052-02
Project Name: TNPR0080
Sample Description:

External Id #:

Sampler Project Name: TNPR0080
Project Site No.: FIELDBLANKKEFO
Station No.:
Date/Time Collected: 08/30/2017 09:42
Sampler's Name: Dale Jayne
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/24/2017
Date/time Received: 08/30/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Carroll

TEST: Coliforms by QT

METHOD: 9223-B

PERFORMING LAB: Knoxville Regional Laboratory

ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	<1	MPN/100mL		Ashley Carroll	8/31/2017

Lab-Sample Number: K1708052-03
Project Name: TNPR0080
Sample Description:

External Id #: d/s A R Davis Road

Sampler Project Name: TNPR0080
Project Site No.: ELLEJ008.0BT
Station No.:
Date/Time Collected: 08/30/2017 09:54
Sampler's Name: Justin Teague
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/24/2017
Date/time Received: 08/30/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Carroll

TEST: Coliforms by QT		METHOD: 9223-B			
PERFORMING LAB: Knoxville Regional Laboratory					
ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	1046	MPN/100mL		Ashley Carroll	8/31/2017

Lab-Sample Number: K1708052-04
Project Name: TNPR0080
Sample Description:

External Id #: At Ellejoy Creek Road Crossing

Sampler Project Name: TNPR0080
Project Site No.: ELLEJ000.1BT
Station No.:
Date/Time Collected: 08/30/2017 10:10
Sampler's Name: Dale Jayne
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/24/2017
Date/time Received: 08/30/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Carroll

TEST: Coliforms by QT

METHOD: 9223-B

PERFORMING LAB: Knoxville Regional Laboratory

ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	228	MPN/100mL		Ashley Carroll	8/31/2017

Lab-Sample Number: K1708052-05
Project Name: TNPR0080
Sample Description:

External Id #: Vacant lot, Peppermint Hills Rd

Sampler Project Name: TNPR0080
Project Site No.: PEPPE000.7BT
Station No.:
Date/Time Collected: 08/30/2017 10:29
Sampler's Name: Justin Teague
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/24/2017
Date/time Received: 08/30/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Carroll

TEST: Coliforms by QT

METHOD: 9223-B

PERFORMING LAB: Knoxville Regional Laboratory

ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	222	MPN/100mL		Ashley Carroll	8/31/2017

Lab-Sample Number: K1708052-06
Project Name: TNPR0080
Sample Description:

External Id #: Vacant lot, Peppermint Hills Rd

Sampler Project Name: TNPR0080
Project Site No.: PEPPE000.7BT
Station No.:
Date/Time Collected: 08/30/2017 10:30
Sampler's Name: Justin Teague
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/24/2017
Date/time Received: 08/30/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Carroll

TEST: Coliforms by QT

METHOD: 9223-B

PERFORMING LAB: Knoxville Regional Laboratory

ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	214	MPN/100mL		Ashley Carroll	8/31/2017

Lab-Sample Number: K1708052-07
Project Name: TNPR0080
Sample Description:

External Id #: 80 yds u/s priv. drive off Andy Harris Rd

Sampler Project Name: TNPR0080
Project Site No.: WILDW000.1BT
Station No.:
Date/Time Collected: 08/30/2017 10:48
Sampler's Name: Dale Jayne
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/24/2017
Date/time Received: 08/30/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Carroll

TEST: Coliforms by QT

METHOD: 9223-B

PERFORMING LAB: Knoxville Regional Laboratory

ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	365	MPN/100mL		Ashley Carroll	8/31/2017

Lab-Sample Number: K1708052-08
Project Name: TNPR0080
Sample Description:

External Id #: Andy Harris Road Bridge

Sampler Project Name: TNPR0080
Project Site No.: NAILS000.7BT
Station No.:
Date/Time Collected: 08/30/2017 10:48
Sampler's Name: Justin Teague
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/24/2017
Date/time Received: 08/30/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Carroll

TEST: Coliforms by QT

METHOD: 9223-B

PERFORMING LAB: Knoxville Regional Laboratory

ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	248	MPN/100mL		Ashley Carroll	8/31/2017

Lab-Sample Number: K1708052-09
Project Name: TNPR0080
Sample Description:

External Id #: 100 yards u/s Unnamed Rd. off Roddy Branch Rd.

Sampler Project Name: TNPR0080
Project Site No.: RODDY000.6BT
Station No.:
Date/Time Collected: 08/30/2017 11:07
Sampler's Name: Justin Teague
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/24/2017
Date/time Received: 08/30/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Carroll

TEST: Coliforms by QT

METHOD: 9223-B

PERFORMING LAB: Knoxville Regional Laboratory

ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	119	MPN/100mL		Ashley Carroll	8/31/2017

Lab-Sample Number: K1708052-10
Project Name: TNPR0080
Sample Description:

External Id #: 100 yards u/s Singleton Road (Williams Mill Rd.)

Sampler Project Name: TNPR0080
Project Site No.: PISTO000.2BT
Station No.:
Date/Time Collected: 08/30/2017 11:20
Sampler's Name: Justin Teague
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/24/2017
Date/time Received: 08/30/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Carroll

TEST: Coliforms by QT

METHOD: 9223-B

PERFORMING LAB: Knoxville Regional Laboratory

ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	134	MPN/100mL		Ashley Carroll	8/31/2017

Lab-Sample Number: K1708052-11
Project Name: TNPR0080
Sample Description:

External Id #: 40 yds u/s RR Bridge, Pearly Smith Rd.

Sampler Project Name: TNPR0080
Project Site No.: POLEC001.0BT
Station No.:
Date/Time Collected: 08/30/2017 11:34
Sampler's Name: Dale Jayne
County: Blount - 05
Sample Matrix:
EFO: Knoxville EFO
Sampling Agency: TDEC-DWR
Billing Code: EN00019126
Send Report To:
Priority Date: 09/24/2017
Date/time Received: 08/30/2017

Agency Invoiced: TDEC-DWR

Received By: Ashley Carroll

TEST: Coliforms by QT

METHOD: 9223-B

PERFORMING LAB: Knoxville Regional Laboratory

ANALYTE	RESULT	UNITS	Qual	ANALYZED BY	DATE
Escherichia coli	113	MPN/100mL		Ashley Carroll	8/31/2017



Inorganic Analysis
K1708052-01-01

PROJECT NAME: 303(d)
STATION NUMBER: PITNE000.SBT WATERBODY NAME: Primer Branch
STREAM MILE: 0.8 COUNTY: Blount - 05
DESCRIPTION: 200 yds d/s Eljejoy Road
LATITUDE: 35.81027 LONGITUDE: -83.76829
MATRIX: water

COLLECTED: DATE 8/30/17 TIME 0940
SAMPLER'S FULL NAME (printed) SALES WYER
SAMPLING AGENCY: DWR-KEFO
IF PRIORITY, DATE NEEDED:
SEND REPORT TO: L. Yales & C. Vonhatten, DWR-KEFO, cc: G. Denton BILLING CODE EN00019126

Env. Microbiology	Gen. Inorganics (cont)	Other General Inorganics:	Metals
coliform, fecal*	ortho-phosphate		aluminum, Al
coliform, total*	silica*		antimony, Sb
strep, fecal*	sulfate*		arsenic, As
E. Coli*	turbidity*		barium, Ba
Enterococcus*	Preserved, Nutrient		beryllium, Be
	COD*		boron, B
	nitrogen, ammonia		cadmium, Cd
	nitrogen, NO ₂ & NO ₃		calcium, Ca
	nitrogen, total Kjeldahl		chromium, Cr
	nitrogen, total organic		cobalt, Co
	phosphate, total		copper, Cu
			iron, Fe
			lithium, Li
			lead, Pb
			magnesium, Mg
			manganese, Mn
			mercury, Hg
			nickel, Ni
			potassium, K
			scandium, Sc
			silver, Ag
			sodium, Na
			strontium, Sr
			thallium, Tl
			vanadium, V
			zinc, Zn
			hardness, Ca as CaCO ₃ *
			hardness, total as CaCO ₃ *

Chlorine, residual (mg/L)
Turbidity, (NTU)
OK? (mv)
Flow Rate

FIELD DETERMINATIONS
Other Field Parameters:

Additional Information
1. Others present at collection
2. Other samples collected
3. Mode of transportation to lab
4. Cooler sealed by
5. Date cooler sealed
6. Remarks

Chain of Custody and Supplemental Information
Only one chain of custody form is required per sample set or point (if all collected at the same time)

1. Collected By: SALES WYER
Date: 8/30/17 Time: 0940
Delivered to: KEL
Date: 8/30/17 Time: 1159
2. Received by: A. CARROLL
Date: 8/30/17 Time: 1159
Delivered to:
Date: 8/30/17 Time: 1159
3. Received by:
Date:
Delivered to:
Date:
4. Received in Lab by: A. CARROLL
Date: 8/30/17 Time: 1159
5. Received in Lab by:
Date:
6. Received in Lab by:
Date:
Logged in by: A. CARROLL
Date: 8/30/17 Time: 1409

* denotes analyses performed only on water



FIELD BLANK

Inorganic Analysis

K1708052-02-01

C: 08/30/2017 09:42

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PROJECT NAME: QC	STATION NUMBER: FIELD/BLANK/KEFO	WATERBODY NAME:		* Metals	
STREAM MILE:	COUNTY: Blount - 05			aluminum, Al	
DESCRIPTION:				antimony, Sb	
LATITUDE:				arsenic, As	
MATRIX: water		LONGITUDE:		barium, Ba	
COLLECTED: DATE 8/30/17		Depth:		beryllium, Be	
SAMPLER'S FULL NAME (printed) Dale Jayne		TIME 0942		boron, B	
SAMPLING AGENCY: DWR-KEFO				cadmium, Cd	
IF PRIORITY, DATE NEEDED:				calcium, Ca	
SEND REPORT TO: C. VonHatten, DWR-KEFO, cc: G. Denton DWR-NCO				chromium, Cr	
		BILLING CODE	EN000019126	cobalt, Co	

* Env. Microbiology	* Gen. Inorganics (cont'd)	Other General Inorganics:	* Metals
coliform, fecal*	ortho-phosphate		
coliform, total*	silica*		
strep, fecal*	sulfate*		
X E. Coli*	turbidity*		
Enterococcus*	Preserved, Nutrient		
	COD*		
* General Inorganics	nitrogen, ammonia		
Not Preserved	nitrogen, NO ₃ & NO ₂		
acidity as CaCO ₃ *	nitrogen, total Kjeldahl		
alkalinity as CaCO ₃ *	nitrogen, total organic		
BOD, 5-day*	phosphate, total		
CBOD, 5-day*			
chloride*	SPECIAL PRESERVATION		
chromium, hexavalent	cyanide		
color	oil and grease		
conductivity*	phenols, total		
fluoride*	sulfide, total*		
MIBAS*	TOC*		
nitrogen, nitrate*			
nitrogen, nitrite*			
PH			
residue, dissolved*	Asbestos		
residue, settleable*	bulk asbestos		
residue, suspended*	other microscopic		
residue, total*			

* denotes analyses performed only on water

FIELD DETERMINATIONS

Conductivity, (umhos)	Chlorine residual	Other Field Parameters:
Dissolved Oxygen, (mg/L)	Turbidity, (NTU)	
Temperature, (°C)	ORP, (mv)	
PH	Flow Rate	

Chain of Custody and Supplemental Information
Only one chain of custody form is required per sample set or point (if all collected at the same time)

- Collected By: D. Jayne
Date: 8/30/17 Time: 0942
- Delivered to: KRL
Date: 8/30/17 Time: 1159
- Received by: A. Cannon
Date: 8/30/17 Time: 1159
- Delivered to:
Date:
Time:
- Received in Lab by: A. Cannon
Date: 8/30/17 Time: 1159
- Received in Lab by:
Date:
Time:
- Logged in by: A. Cannon
Date: 8/30/17 Time: 1409

Additional Information

- Others present at collection
- Other samples collected
- Mode of transportation to lab
- Locked State vehicle
- Cooler sealed by
- Date cooler sealed
- Remarks

FIELD BLANK



Inorganic Analysis

K1708052-03-01

PROJECT NAME: 303(d)	WATERBODY NAME: Ellejoy Creek	* Metals
STATION NUMBER: ELLFJ008.0BT	COUNTY: Blount - 05	aluminum, Al
STREAM MILE: 8.0	DESCRIPTION: d/s A R Davis Road	antimony, Sb
LATITUDE: 35.8000	LONGITUDE: -83.7730	arsenic, As
MATRIX: water	Depth:	barium, Ba
COLLECTED: DATE 8-30-17 TIME 9:54		beryllium, Be
SAMPLER'S FULL NAME (printed) Justin Teague		boron, B
SAMPLING AGENCY: DWR-KEFO		cadmium, Cd
IF PRIORITY DATE NEEDED:	BILLING CODE EN00019126	calcium, Ca
SEND REPORT TO: L. Yates & C. VonHatten, DWR-KEFO, cc: G. Denton		chromium, Cr
* Env. Microbiology	* Gen. Inorganics (cont)	cobalt, Co
coliform, fecal*	ortho-phosphate	copper, Cu
coliform, total*	silica*	iron, Fe
strep, fecal*	sulfate*	lithium, Li
X E. Coli*	turbidity*	lead, Pb
Enterococcus*	Preserved, Nutrient	magnesium, Mg
* General Inorganics	COD*	manganese, Mn
Not Preserved	nitrogen, ammonia	mercury, Hg
acidity as CaCO ₃ *	nitrogen, NO ₃ & NO ₂	nickel, Ni
alkalinity as CaCO ₃ *	nitrogen, total Kjeldahl	potassium, K
BOD, 5-day*	nitrogen, total organic	scandium, Sc
CBOD, 5-day*	phosphate, total	silver, Ag
chloride*		sodium, Na
chromium, hexavalent	SPECIAL PRESERVATION	strontium, Sr
color	cyanide	thallium, Tl
conductivity*	oil and grease	vanadium, V
fluoride*	phenols, total	zinc, Zn
MBAS*	sulfide, total*	hardness, Ca as CaCO ₃ *
nitrogen, nitrate*	TOC*	hardness, total as CaCO ₃ *
nitrogen, nitrite*		
pH		Other Metals:
residue, dissolved*	Asbestos	
residue, settleable*	bulk asbestos	
residue, suspended*	other microscopic	
residue, total*		

* denotes analyses performed only on water

FIELD DETERMINATIONS

Conductivity, (umhos)	Chlorine, residual (mg/L)	Other Field Parameters:
Dissolved Oxygen, (mg/L)	Turbidity, (NTU)	
Temperature, (°C)	ORP, (mv)	
pH	Flow Rate	

Chain of Custody and Supplemental Information
Only one chain of custody form is required per sample set or point (if all collected at the same time)

1. Collected By Justin Teague
Date 8-30-17 Time 9:54
Delivered to KRL
Date 8/30/17 Time 11:59
2. Received by A. Campbell
Date 8/30/17 Time 11:59
Delivered to
Date
3. Received by
Date
Delivered to
Date
4. Received in Lab by A. Campbell
Date 8/30/17 Time 11:59
5. Received in Lab by
Date
6. Received in Lab by
Date
Logged in by A. Campbell
Date 8/30/17 Time 1409

Additional Information

- Others present at collection
- Other samples collected
- Mode of transportation to lab locked State vehicle
- Cooler sealed by
- Date cooler sealed

6. Remarks
ELLFJ008.0BT



Inorganic Analysis
K1708052-04-01

PROJECT NAME:	303(d)	WATERBODY NAME:	Ellejoy Creek	* Metals	
STATION NUMBER:	ELLEJ000.1BT	COUNTY:	Blount - 05	aluminum, Al	
STREAM MILE:	0.1			antimony, Sb	
DESCRIPTION:	At Ellejoy Creek Road Crossing			arsenic, As	
LATITUDE:	35.77325	LONGITUDE:	-83.84909	barium, Ba	
MATRIX:	water	Depth:		beryllium, Be	
COLLECTED:	DATE: 8/30/17	TIME:	1010	boron, B	
SAMPLER'S FULL NAME (printed):	Dale Jayne			cadmium, Cd	
SAMPLING AGENCY:	DWR-KEFO	BILLING CODE:	EN00019126	calcium, Ca	
IF PRIORITY DATE NEEDED:				chromium, Cr	
SEND REPORT TO: L. Yates & C. VonHatten, DWR-KEFO; cc: G. Denton				cobalt, Co	
* Env. Microbiology		* Gen. Inorganics (con't)		Other General Inorganics:	
coliform, fecal*		ortho-phosphate		copper, Cu	
coliform, total*		silica*		iron, Fe	
strep. fecal*		sulfate*		lithium, Li	
E. Coli*		turbidity*		lead, Pb	
Enterococcus*		Preserved, Nutrient		magnesium, Mg	
		COD*		manganese, Mn	
* General Inorganics		nitrogen, ammonia		mercury, Hg	
Not Preserved		nitrogen, NO ₃ & NO ₂		nickel, Ni	
acidity as CaCO ₃ *		nitrogen, total Kjeldahl		potassium, K	
alkalinity as CaCO ₃ *		nitrogen, total organic		selenium, Se	
BOD, 5-day*		phosphatic, total		silver, Ag	
CBOD, 5-day*				sodium, Na	
chloride*		SPECIAL PRESERVATION:		strontium, Sr	
chromium, hexavalent		cyanide		thallium, Tl	
color		oil and grease		vanadium, V	
conductivity*		phenols, total		zinc, Zn	
fluoride*		sulfide, total*		hardness, Ca as CaCO ₃ *	
MBAS*		TOC*		hardness, total as CaCO ₃ *	
nitrogen, nitrate*				Metals Digestion type:	
nitrogen, nitrite*				Normal	
pH				Dissolved	
residue, dissolved*				TCLP	
residue, settleable*		Asbestos		Other:	
residue, suspended*		bulk asbestos		Other Metals:	
residue, total*		other microscopic			

* denotes analyses performed only on water

FIELD DETERMINATIONS

Conductivity (µmhos)	Chlorine, residual (mg/L)	Other Field Parameters:
Dissolved Oxygen (mg/L)	Turbidity (NTU)	
Temperature (°C)	ORP (mv)	
pH	Flow Rate	

Chain of Custody and Supplemental Information
Only one chain of custody form is required per sample set or point (if all collected at the same time)
C: 08/30/2017 10:10
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1. Collected By: D. Jayne
Date: 8/30/17 Time: 1010
Delivered to: KRL
Date: 8/30/17 Time: 1159
2. Received by: A. Cambell
Date: 8/30/17 Time: 1159
Delivered to:
Date: 8/30/17 Time: 1159
3. Received by:
Date:
Delivered to:
Date:
4. Received in Lab by: A. Cambell
Date: 8/30/17 Time: 1159
5. Received in Lab by:
Date:
6. Received in Lab by:
Date:
Logged in by: A. Cambell
Date: 8/30/17 Time: 1409

Additional Information
1. Others present at collection
2. Other samples collected
3. Mode of transportation to lab
4. Cooler sealed by
5. Date cooler sealed
6. Remarks

ELLEJ000.1BT



K1708052-05-01



C: 0830/2017 10:29

Chain of Custody and Supplemental Information

Only one chain of custody form is required per sample set or point (if all collected at the same time)

PROJECT NAME:	303(d)	WATERBODY NAME:	Peppermint Branch	* Metals
STATION NUMBER:	PEPPE000.7BT	COUNTY:	Blount - 05	aluminum, Al
STREAM MILE:	0.7			antimony, Sb
DESCRIPTION:	Vacant lot, Peppermint Hills Rd			arsenic, As
LATITUDE:	35.79074	LONGITUDE:	-83.89604	barium, Ba
MATRIX:	water	Depth:		beryllium, Be
COLLECTED:	DATE 8-30-17	TIME 10:29		boron, B
SAMPLER'S FULL NAME (printed):	Justin Teege			cadmium, Cd
SAMPLING AGENCY:	DWR-KEFO	BILLING CODE	EN00019126	calcium, Ca
IF PRIORITY, DATE NEEDED:				chromium, Cr
SEND REPORT TO: L. Yates & C. VonHatten, DWR-KEFO; cc: G. Denton				cobalt, Co
* Env. Microbiology	* Gen. Inorganics (con't)	Other General Inorganics:		copper, Cu
coliform, fecal*	ortho-phosphate			iron, Fe
coliform, total*	silica*			lithium, Li
strep, fecal*	sulfate*			lead, Pb
E. Coli*	turbidity*			magnesium, Mg
Enterococcus*	Preserved, Nutrient			manganese, Mn
				mercury, Hg
* General Inorganics				nickel, Ni
Not Preserved	nitrogen, ammonia			potassium, K
acidity as CaCO ₃ *	nitrogen, NO ₃ & NO ₂			selenium, Se
alkalinity as CaCO ₃ *	nitrogen, total Kjeldahl			silver, Ag
BOD, 5-day*	nitrogen, total organic			sodium, Na
CBOD, 5-day*	phosphate, total			strontium, Sr
chloride*				thallium, Tl
chromium, hexavalent	SPECIAL PRESERVATION			vanadium, V
color	cyanide			zinc, Zn
conductivity*	oil and grease			hardness, Ca as CaCO ₃ *
fluoride*	phenols, total			hardness, total as CaCO ₃ *
MBAS*	sulfide, total*			
nitrogen, nitrate*	TOC*			Additional Information
nitrogen, nitrite*				1. Others present at collection
pH				2. Other samples collected
residue, dissolved*	Asbestos			3. Mode of transportation to lab
residue, settleable*	bulk asbestos			4. Cooler sealed by
residue, suspended*	other microscopic			5. Date cooler sealed
residue, total*				6. Remarks

* denotes analyses performed only on water

FIELD DETERMINATIONS

Conductivity, (umhos)	Chlorine, residual (mg/L)	Other Field Parameters:
Dissolved Oxygen, (mg/L)	Turbidity, (NTU)	
Temperature, (°C)	ORP, (mv)	
pH	Flow Rate	



FIELD DUPLICATE

Inorganic Analysis

K1708052-06-01



C: 08/30/2017 10:30

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Chain of Custody and Supplemental Information

Only one chain of custody form is required per sample set or point (if all collected at the same time)

PROJECT NAME:	303(d)	WATERBODY NAME:	Peppermint Branch	* Metals	
STATION NUMBER:	PEPPE000.7BT	COUNTY:	Blount - 05	aluminum, Al	
STREAM MILE:	0.7			antimony, Sb	
DESCRIPTION:	Vacant lot, Peppermint Hills Rd			arsenic, As	
LATITUDE:	35.79074	LONGITUDE:	-83.89604	barium, Ba	
MATRIX:	water	Depth:		beryllium, Be	
COLLECTED:	DATE 8-30-17	TIME 8:10:30		boron, B	
SAMPLER'S FULL NAME (printed):	JUSTA TEAGUE			cadmium, Cd	
SAMPLING AGENCY:	DWR-KEFO			calcium, Ca	
IF PRIORITY, DATE NEEDED:				chromium, Cr	
SEND REPORT TO: L. Yates & C. VonHatten, DWR-KEFO; cc: G. Denton	BILLING CODE	EN00019126		cobalt, Co	
* Env. Microbiology	* Gen. Inorganics (cont)	Other General Inorganics:		copper, Cu	
coliform, fecal*	ortho-phosphate			iron, Fe	
coliform, total*	silica*			lithium, Li	
strep. fecal*	sulfate*			lead, Pb	
X E. Coli*	turbidity*	Preserved, Nutrient		magnesium, Mg	
Enterococcus*	COD*			manganese, Mn	
* General Inorganics	nitrogen, ammonia			mercury, Hg	
Not Preserved	nitrogen, NO ₃ & NO ₂			nickel, Ni	
acidity as CaCO ₃ *	nitrogen, total Kjeldahl			potassium, K	
alkalinity as CaCO ₃ *	nitrogen, total organic			selenium, Se	
BOD, 5-day*	phosphate, total			silver, Ag	
CBOD, 5-day*				sodium, Na	
chloride*				strontium, Sr	
chromium, hexavalent	SPECIAL PRESERVATION			thallium, Tl	
color	cyanide			vanadium, V	
conductivity*	oil and grease			zinc, Zn	
fluoride*	phenols, total	Metals Digestion type:		hardness, Ca as CaCO ₃ *	
MBAS*	sulfide, total*	Normal		hardness, total as CaCO ₃ *	
nitrogen, nitrate*	TOC*	Dissolved			
nitrogen, nitrite*		TCLP		Other Metals:	
pH		Other:			
residue, dissolved*	Asbestos				
residue, settleable*	bulk asbestos				
residue, suspended*	other microscopic				
residue, total*					

* denotes analyses performed only on water

FIELD DETERMINATIONS

Conductivity, (umhos)	Chlorine, residual (mg/L)	Other Field Parameters:
Dissolved Oxygen, (mg/L)	Turbidity, (NTU)	
Temperature, (°C)	ORP, (mv)	
pH	Flow Rate	

1. Others present at collection

2. Other samples collected

3. Mode of transportation to lab

4. Cooler sealed by

5. Date cooler sealed

6. Remarks

PEPPE000.7BT



K1708052-07-01



C: 08/30/2017 10:48

Learn on Custody and Supplemental Information

Only one chain of custody form is required per sample set or point (if all collected at the same time)

PROJECT NAME:	303(d)	WATERBODY NAME:	Wildwood Branch	* Metals	
STATION NUMBER:	WILDW000.1BT	COUNTY:	Blount - 05	aluminum, Al	
STREAM MILE:	0.1			antimony, Sb	
DESCRIPTION:	80 yds up priv. drive off Andy Harris Rd			arsenic, As	
LATITUDE:	35.81218	LONGITUDE:	-83.88255	barium, Ba	
MATRIX:	water	Depth:		beryllium, Be	
COLLECTED:	DATE 8-30-17	TIME 10:48		boron, B	
SAMPLER'S FULL NAME (printed):	Dale Jayne			cadmium, Cd	
SAMPLING AGENCY:	DWR-KEFO	BILLING CODE	EN00019126	calcium, Ca	
IF PRIORITY, DATE NEEDED:				chromium, Cr	
SEND REPORT TO: L. Yates & C. VonHatten, DWR-KEFO, cc: G. Denton				cobalt, Co	
* Env. Microbiology	* Gen. Inorganics (con't)	Other General Inorganics:		copper, Cu	
coliform, fecal*	ortho-phosphate			iron, Fe	
coliform, total*	silica*			lithium, Li	
strep, fecal*	sulfate*			lead, Pb	
E. Coli*	turbidity*	Preserved, Nutrient		magnesium, Mg	
Enterococcus*				manganese, Mn	
* General Inorganics				mercury, Hg	
Not Preserved				nickel, Ni	
acidity as CaCO ₃ *				potassium, K	
alkalinity as CaCO ₃ *				selenium, Se	
BOD, 5-day*				silver, Ag	
CBOD, 5-day*				sodium, Na	
chloride*				strontium, Sr	
chromium, hexavalent				thallium, Tl	
color				vanadium, V	
conductivity*				zinc, Zn	
fluoride*				hardness, Ca as CaCO ₃ *	
MBAS*				hardness, total as CaCO ₃ *	
nitrogen, nitrate*					
nitrogen, nitrite*					
pH					
residue, dissolved*					
residue, settleable*					
residue, suspended*					
residue, total*					

* denotes analyses performed only on water

FIELD DETERMINATIONS

Conductivity, (umhos)	Chlorine, residual (mg/L)	Other Field Parameters:
Dissolved Oxygen, (mg/L)	Turbidity, (NTU)	
Temperature, (°C)	ORP, (mv)	
pH	Flow Rate	



PROJECT NAME:	303(d)	WATERBODY NAME:	Nails Creek	* Metals	aluminum, Al antimony, Sb arsenic, As barium, Ba beryllium, Be boron, B cadmium, Cd calcium, Ca chromium, Cr cobalt, Co copper, Cu iron, Fe lithium, Li lead, Pb magnesium, Mg manganese, Mn mercury, Hg nickel, Ni potassium, K selenium, Se silver, Ag sodium, Na strontium, Sr thallium, Tl vanadium, V zinc, Zn
STATION NUMBER:	NAII.S000.7BT	COUNTY:	Blount - 05	Chain of Custody and Supplemental Information	hardness, Ca as CaCO ₃ * hardness, total as CaCO ₃ *
STREAM MILE:	0.7	LONGITUDE:	-83.88261	Only one chain of custody form is required per sample set or point (if all collected at the same time)	
DESCRIPTION:	Andy Harris Road Bridge	DEPTH:		1. Others present at collection	
LATITUDE:	35.81360	DATE:	8-30-17	2. Other samples collected	
MATRIX:	water	SAMPLER'S FULL NAME (printed):	Justin Teague	3. Mode of transportation to lab	
COLLECTED:	DATE: 8-30-17	TIME:	10:48	4. Cooler sealed by	
SAMPLING AGENCY:	DWR-KEFO	IF PRIORITY DATE NEEDED:		5. Date cooler sealed	
SEND REPORT TO:	L. Yates & C. VonHatten, DWR-KEFO; cc: G. Denton	BILLING CODE:	EN00019126	6. Remarks	
* Env. Microbiology		Gen. Inorganics (cont)		NAII.S000.7BT	
coliform, fecal*		ortho-phosphate			
coliform, total*		silica*			
strep. fecal*		sulfate*			
E. Coli*		turbidity*			
Enterococcus*		Preserved, Nutrient			
* General Inorganics		COD*			
Not Preserved		nitrogen, ammonia			
acidity as CaCO ₃ *		nitrogen, NO ₃ & NO ₂			
alkalinity as CaCO ₃ *		nitrogen, total Kjeldahl			
BOD, 5-day*		nitrogen, total organic			
CBOD, 5-day*		phosphate, total			
chloride*		SPECIAL PRESERVATION			
chromium, hexavalent		oil and grease			
color		phenols, total			
conductivity*		sulfide, total*			
fluoride*		TOC*			
MBAS*		Asbestos			
nitrogen, nitrate*		bulk asbestos			
nitrogen, nitrite*		other microscopic			
pH					
residue, dissolved*					
residue, settleable*					
residue, suspended*					
residue, total*					

* denotes analyses performed only on water

FIELD DETERMINATIONS

Conductivity, (umhos)	Chlorine residual (mg/L)	Turbidity, (NTU)	Other Field Parameters:
Dissolved Oxygen, (mg/L)	ORP, (mv)	Flow Rate	
Temperature, (°C)			
pH			



PROJECT NAME:	303(d)	WATERBODY NAME:	Roddy Branch	* Metals	
STATION NUMBER:	RODDY000.6BT	COUNTY:	Blount - 05	aluminum, Al	
STREAM MILE:	0.6			antimony, Sb	
DESCRIPTION:	100 yards w/s Unnamed Rd. off Roddy Branch Rd.			arsenic, As	
LATITUDE:	35.85472	LONGITUDE:	-83.92823	barium, Ba	
MATRIX:	water	Depth:		beryllium, Be	
COLLECTED:	DATE 8-30-17	TIME 11:07		boron, B	
SAMPLER'S FULL NAME (printed)	Justin Teague			cadmium, Cd	
SAMPLING AGENCY:	DWR-KEFO			calcium, Ca	
IF PRIORITY DATE NEEDED:				chromium, Cr	
SEND REPORT TO: L. Yates & C. VonHatten, DWR-KEFO; cc: G. Denton	BILLING CODE	EN00019126		cobalt, Co	
* Env. Microbiology	* Gen. Inorganics (con't)	Other General Inorganics:		copper, Cu	
coliform, fecal*	ortho-phosphate			iron, Fe	
coliform, total*	silica*			lithium, Li	
strep, fecal*	sulfate*			lead, Pb	
X E. Coli*	turbidity*	Preserved, Nutrient		magnesium, Mg	
Enterococcus*				manganese, Mn	
* General Inorganics				mercury, Hg	
Not Preserved				nickel, Ni	
acidity as CaCO ₃ *				potassium, K	
alkalinity as CaCO ₃ *				scandium, Sc	
BOD, 5-day*				silver, Ag	
CBOD, 5-day*				sodium, Na	
chloride*				strontium, Sr	
chromium, hexavalent				thallium, Tl	
color				vanadium, V	
conductivity*				zinc, Zn	
fluoride*				hardness, Ca as CaCO ₃ *	
MBAS*				hardness, total as CaCO ₃ *	
nitrogen, nitrate*					
nitrogen, nitrite*					
pH					
residue, dissolved*					
residue, settleable*					
residue, suspended*					
residue, total*					

* denotes analyses performed only on water

FIELD DETERMINATIONS

Conductivity, (umhos)	Chlorine, residual (mg/L)	Other Field Parameters:
Dissolved Oxygen, (mg/L)	Turbidity, (NTU)	
Temperature, (°C)	ORP, (mv)	
pH	Flow Rate	

Chain of Custody and Supplemental Information
Only one chain of custody form is required per sample set or point (if all collected at the same time)
C: 0830/2017 1407
0

1. Collected by: Justin Teague
Date: 8-30-17 Time: 11:07
Delivered to: KRL
Date: 8/30/17 Time: 1159
2. Received by: A. Carroll
Date: 8/30/17 Time: 159
Delivered to:
Date: Time
3. Received by:
Date: Time
Delivered to:
Date: Time
4. Received in Lab by: A. Carroll
Date: 8/30/17 Time: 1159
5. Received in Lab by:
Date: Time
6. Received in Lab by:
Date: Time
Logged in by: A. Carroll
Date: 8/30/17 Time: 1409

- Additional Information
- Others present at collection
 - Other samples collected
 - Mode of transportation to lab
 - Cooler sealed by
 - Date cooler sealed
 - Remarks

RODDY000.6BT



Inorganic Analysis
K1708052-10-01

PROJECT NAME:	303(d)	WATERBODY NAME:	Pistol Creek	* Metals	
STATION NUMBER:	PIST0000.2BT	COUNTY:	Blount - 05	aluminum, Al	
STREAM MILE:	0.2			antimony, Sb	
DESCRIPTION:	100 yards w/s Singleton Road (Williams Mill Rd.)			arsenic, As	
LATITUDE:	35.8175	LONGITUDE:	-83.9434	barium, Ba	
MATRIX:	water	Depth:		beryllium, Be	
COLLECTED:	DATE 8-30-17	TIME 11:20		boron, B	
SAMPLER'S FULL NAME (printed)	Justin Teague			cadmium, Cd	
SAMPLING AGENCY:	DWR-KEFO			calcium, Ca	
IF PRIORITY, DATE NEEDED:				chromium, Cr	
SEND REPORT TO:	L. Yates & C. VonHatten, DWR-KEFO; cc: G. Denton	BILLING CODE	EN00019126	cobalt, Co	
* Env. Microbiology				copper, Cu	
coliform, fecal*		Gen. Inorganics (con't)		Other General Inorganics:	
coliform, total*		ortho-phosphate			
strep. fecal*		silica*		iron, Fe	
E. Coli*		sulfate*		lithium, Li	
Enterococcus*		turbidity*		lead, Pb	
		Preserved, Nutrient		magnesium, Mg	
* General Inorganics		COD*		manganese, Mn	
Not Preserved		nitrogen, ammonia		mercury, Hg	
acidity as CaCO ₃ *		nitrogen, NO ₃ & NO ₂		nickel, Ni	
alkalinity as CaCO ₃ *		nitrogen, total Kjeldahl		potassium, K	
BOD, 5-day*		nitrogen, total organic		selenium, Se	
CBOD, 5-day*		phosphate, total		silver, Ag	
chloride*				sodium, Na	
chromium, hexavalent		SPECIAL PRESERVATION		strontium, Sr	
color		cyanide		thallium, Tl	
conductivity*		oil and grease		vanadium, V	
fluoride*		phenols, total		zinc, Zn	
M/BAS*		sulfide, total*		hardness, Ca as CaCO ₃ *	
nitrogen, nitrate*		TOC*		hardness, total as CaCO ₃ *	
nitrogen, nitrite*				Other Metals:	
pH					
residue, dissolved*		Asbestos			
residue, settleable*		bulk asbestos			
residue, suspended*		other microscopic			
residue, total*					

* denotes analyses performed only on water

FIELD DETERMINATIONS

Conductivity, (µmhos)	Chlorine, residual (mg/L)	Other Field Parameters:
Dissolved Oxygen, (mg/L)	Turbidity, (NTU)	
Temperature, (°C)	ORP, (mv)	
pH	Flow Rate	

Chain of Custody and Supplemental Information

C: 08302017 1120

Only one chain of custody form is required per sample set or point (if all collected at the same time)

1. Collected By	Justin Teague
Date	8-30-17 Time 11:20
Delivered to:	KRL
Date	8/30/17 Time 11:59
2. Received by	A. Carroll
Date	8/30/17 Time 11:59
3. Received by	
Date	
4. Received in Lab by	A. Carroll
Date	8/30/17 Time 1409
5. Received in Lab by	
Date	
6. Received in Lab by	
Date	

Additional Information

- Others present at collection
- Other samples collected
- Mode of transportation to lab locked State vehicle
- Cooler sealed by
- Date cooler sealed

6. Remarks

PIST0000.2BT



0 09302017 1134

Chain of Custody and Supplemental Information

Only one chain of custody form is required per sample set or point (if all collected at the same time)

PROJECT NAME: 303(d)		WATERBODY NAME: Polecat Creek		* Metals	
STATION NUMBER: POLEC001.0BT	STREAM MILE: 1.0	COUNTY: Blount - 05		aluminum, Al	
DESCRIPTION: 40 yds up RR Bridge, Pearly Smith Rd.	LATITUDE: 35.84909	LONGITUDE: -83.98046		antimony, Sb	
MATRIX: water	DEPTH: Depth:			arsenic, As	
COLLECTED: DATE 8/30/17	TIME 1134			barium, Ba	
SAMPLER'S FULL NAME (printed) Dale Stange				beryllium, Be	
SAMPLING AGENCY: DWR-KEFO				boron, B	
IF PRIORITY, DATE NEEDED:				cadmium, Cd	
SEND REPORT TO: L. Yates & C. VonHatten, DWR-KEFO, cc: G. Denton	BILLING CODE: EN00019126			calcium, Ca	
* Env. Microbiology	* Gen. Inorganics (con'd)			chromium, Cr	
coliform, fecal*	ortho-phosphate			cobalt, Co	
coliform, total*	silica*			copper, Cu	
strep, fecal*	sulfate*			iron, Fe	
X E. Coli*	turbidity*			lithium, Li	
Enterococcus*	Preserved, Nutrient			lead, Pb	
* General Inorganics	COD*			magnesium, Mg	
Not Preserved	nitrogen, ammonia			manganese, Mn	
acidity as CaCO ₃ *	nitrogen, NO ₃ & NO ₂			mercury, Hg	
alkalinity as CaCO ₃ *	nitrogen, total Kjeldahl			nickel, Ni	
BOD, 5-day*	nitrogen, total organic			potassium, K	
CBOD, 5-day*	phosphate, total			selenium, Se	
chloride*				silver, Ag	
chromium, hexavalent				sodium, Na	
color	SPECIAL PRESERVATION			strontium, Sr	
conductivity*	cyanide			thallium, Tl	
fluoride*	oil and grease			vanadium, V	
MBAS*	phenols, total			zinc, Zn	
nitrogen, nitrate*	sulfide, total*			hardness, Ca as CaCO ₃ *	
nitrogen, nitrite*	TOC*			hardness, total as CaCO ₃ *	
pH				TCLP	
residue, dissolved*	Asbestos			Other:	
residue, settleable*	bulk asbestos				
residue, suspended*	other microscopic				
residue, total*					

* denotes analyses performed only on water

FIELD DETERMINATIONS

Other Field Parameters:

Conductivity, (umhos)	Chlorine, residual (mg/L)
Dissolved Oxygen, (mg/L)	Turbidity, (NTU)
Temperature, (°C)	ORP, (mV)
pH	Flow Rate