

## 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 <a href="mailto:jhatcher@blounttn.org">jhatcher@blounttn.org</a> if you may have any questions or comments.

Sincerely,

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

	Na	Name of MS4: Blount County Government		MS4 Permit Number: TNS075116			
	Co	Contact Person: Jeff Hatcher		Email Address: jhatcher@blounttn.org			
	Te	elephone: (865) 518-6904		MS4 Program Wel		ater	
	М	ailing Address: 1221 McArthur Road	l T				
	Ci	ty: Maryville	State: TN		ZIP code: 37804	1	
		at is the current population of your M		1400474	20.0040		
	vvn	at is the reporting period for this ann	uai report? J	uly1 <u>2017</u> to June 3	30 <u>2018</u>		
2.	Dis	charges to Waterbodies with Unavail	lable Parameters o	r Exceptional Tenn	essee Waters (Se	ction 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/wrws-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 - <a href="http://environment-online.tn.gov:8080/pls/enf_reports/f?p=9034:34304:4880790061142">http://environment-online.tn.gov:8080/pls/enf_reports/f?p=9034:34304:4880790061142</a> )? If yes, attach a list.					⊠ Yes	□ No
	D.	Are you implementing specific Best discharges to waterbodies with unar specific practices:	_		•	☐ Yes	⊠ No
3.	Puk	olic Education/Outreach and Involven	nent/Participation (	Sections 4.2.1 and	4.2.2)		
	Α.	Have you developed a Public Inform			<del></del>	⊠ Yes	□ No
	В.	Is your public education program tan Spots? If yes, describe the specific education program: <u>Urban runoff, s</u> <u>restaurants.</u>	pollutants and/or s	sources targeted by	your public	⊠ Yes	□No
	C. Do you have a webpage dedicated to your stormwater program? If yes, provide a link/URL: <a href="http://www.blounttn.org/305/Stormwater">http://www.blounttn.org/305/Stormwater</a>			rovide a	⊠ Yes	□ No	
	Summarize how you advertise and publicize your public education, outreach, involvement and participation opportunities: Couny stormwater website, handouts/flyers, information available at public events and local newspaper when needed.						

- E. Summarize the public education, outreach, involvement and participation activities you completed during this reporting period: Offered one Hot Spot educational training for local bisinesses 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.	Illic	it Discharge Detection and Elimination (Section 4.2.3)		
	Α.	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 a eliminated? $\underline{4}$	ddressed and	or/or
5.	Co	nstruction 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 juri period? $\underline{11}$	sdiction this re	porting
	F.	How many active priority and non-priority construction sites were inspected this reporting p	eriod? 7	
	G.	How many construction related complaints were received this reporting period? 1		
6.	Per	manent Stormwater Management at New Development and Redevelopment Projects (Sec	tion 4.2.5)	
	Α.	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 □ 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., disturbing greater than one acre, etc.)? Projects disturbing one acre or more within the Ucounty.		
	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?	<u>0</u>	
	G.	How many enforcement actions were taken to address improper installation or maintenance	:e? <u>0</u>	
	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.	Stor	mwater Management for Municipal Operations (Section 4.2.6)		
4	Α.	As applicable, have stormwater related operation and maintenance plans that include informaintenance activities, schedules and the proper disposal of waste from structural and not 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

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#### 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.	Rev	iewing and Updating Stormwater Management Programs (Section 4.4)					
	A.	Describe any revisions to your program implemented during this reporting period including	g but not limite	d 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	2				
		Information (e.g. additional acreage, outfalls, BMPs) on newly annexed areas and any resulting updates to your program. <u>None</u>					
	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	4.5)
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A.	Have you implemented an enforcement response plan that includes progressive	
	enforcement actions to address non-compliance, and allows the maximum penalties	□ No
	specified in TCA 68-221-1106? If no, explain. n/a	

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>	Construction	Permanent Stormwater	<u>Illicit</u> <u>Discharge</u>	In Your E	RP?
١	/erbal warnings	# <u>5</u>	# <u>0</u>	# <u>0</u>	⊠ Yes	□No
١	Written notices	# <u>O</u>	# <u>O</u>	# <u>5</u>	⊠ Yes	□ No
	Citations with administrative penalties	# <u>O</u>	# <u>0</u>	# <u>0</u>	⊠ Yes	□ No
5	Stop work orders	# <u>O</u>	# <u>O</u>	# <u>0</u>		☐ No
8	Withholding of plan approvals or other authorizations	# <u>O</u>	# <u>0</u>	# <u>0</u>	⊠ Yes	□No
A	Additional Measures	# <u>n/a</u>	# <u>n/a</u>	# <u>n/a</u>	Describe:	
(	C. Do you track instanc	es of non-complianc	e and related enforce	ment documentat	ion? ⊠ Yes	□ No
	. 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. 
  ☐ 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."

Printed Name and Title

Signature

9/27/2018

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	⊠ Yes	□ No	⊠ Yes	□No
TN06010201026 – 0200 Caney Branch	Physical Substrate Habitat Alteration/ NA	⊠ Yes	□ No	⊠ Yes	□ 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	⊠ Yes	□ No	⊠ Yes	□ No
TN06010201026 – 0400 PISTOL CREEK	Loss of biological integrity due to siltation NA Escherichia coli NA	⊠ Yes	□ No	⊠ Yes	□No
TN06010201026 – 0410 SPRINGFIELD BRANCH	Nitrate+Nitrite /L Loss of biological integrity due to siltation /NA	⊠ Yes	□No	⊠ Yes	□ No
TN06010201026 – 0420 BROWN CREEK	Alteration in stream-side or littoral vegetative cover /NA Nitrate+Nltrite M Loss of biological integrity due to siltation /NA Escherichia coli/ H	⊠ Yes	□ No	⊠ Yes	□No
TN06010201026 – 0421 DUNCAN BRANCH	Flow Alteration /NA	☐ Yes	⊠ No	☐ Yes	⊠ No

TN06010201026 – 0430 CULTON CREEK	Loss of biological integrity due to siltation /NA Escherichia coli /NA	⊠ Yes	□ No	☐ Yes	⊠ No
TN06010201026 – 0431 LAUREL BANK BRANCH	Loss of biological integrity due to siltation /NA	⊠ Yes	□No	⊠ Yes	□ No
TN06010201026 – 0500 RUSSELL BRANCH	PCBs /L Loss of biological integrity due to siltation /NA	⊠ Yes	□ No	⊠ Yes	□ No
TN06010201026 – 1000 LITTLE RIVER	PCBs /NA	⊠ Yes	□ No	☐ Yes	⊠ 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	☐ Yes	⊠ No	☐ Yes	⊠ 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	⊠ Yes	□ No	⊠ Yes	□ No
TN06010201027 – 0400 PEPPERMINT BRANCH	Loss of biological integrity due to siltation /NA Escherichia coli /H	⊠ Yes	□ No	⊠ Yes	□ No
TN06010201028 - 0100 SPICEWOOD BRANCH	Loss of biological integrity due to siltation /NA	⊠ Yes	□ No	⊠ Yes	□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	⊠ Yes	□No	⊠ Yes	□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	⊠ Yes	□ No	⊠ Yes	□No
TN06010201028 – 1000 CROOKED CREEK	Escherichia coli /NA	⊠ Yes	□ No	⊠ Yes	□No
TN06010201031 - 1000 HESSE CREEK	Escherichia coli /NA	☐ Yes	⊠ No	☐ Yes	⊠ No
TN06010201032 – 0700 DRY BRANCH	Escherichia coli /NA	⊠ Yes	□No	☐ Yes	⊠ No
TN06010201032 0800 SHORT CREEK	Nitrate+Nitrite /M	⊠ Yes	☐ No	⊠ Yes	□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	⊠ Yes	□ No	⊠ Yes	□ No
TN06010201033-0100 LITTLE ELLEJOY CREEK	Nitrate+Nitrite/ L Escherichia coli/ NA	⊠ Yes	□ No	⊠ Yes	□ No
TN06010201033 – 0200 PITNER CREEK	Escherichia coli /NA	⊠ Yes	☐ No	⊠ Yes	□ No
TN06010201033 - 1000 ELLEJOY CREEK	Escherichia coli /NA	⊠ Yes	□ No	⊠ Yes	□ No
TN06010201033 - 2000 ELLEJOY CREEK	Nitrate+Nitrite / L Loss of biological integrity due to siltation /NA Escherichia coli /NA	⊠ Yes	□No	⊠ Yes	□ No
TN06010201034 - 0200 WILDWOOD BRANCH	Alteration in stream-side or littoral vegetative cover /NA Escherichia coli/ NA	⊠ Yes	□ No	⊠ Yes	□ No
TN06010201034 – 1000 NAILS CREEK	Escherichia coli /NA	⊠ Yes	□ No	⊠ Yes	☐ No
TN06010201083 – 1000 FLOYD CREEK	Loss of biological integrity due to siltation /NA Escherichia coli /NA	⊠ Yes	□No	⊠ Yes	□No
TN06010201983 – 1000 POLECAT CREEK	Alteration in stream-side or littoral vegetative cover /NA Loss of biological integrity due to siltation /NA	⊠ Yes	□No	⊠ Yes	□No
TN06010204020 - 1000 LITTLE TENNESSEE RIVER	Habitat loss due to stream flow alteration /NA	☐ Yes	⊠ No	☐ Yes	⊠ No
TN06010204042 – 0100 CENTENARY CREEK	Alteration in stream-side or littoral vegetative cover /NA Loss of biological integrity due to siltation /NA	⊠ Yes	□No	⊠ Yes	□No
TN06010204042 - 0300 SIX MILE CREEK	Escherichia coli /NA	☐ Yes	⊠ No	☐ Yes	⊠ No
TN06010204042 - 0311 UNNAMED TRIBUTARY TO BIG SPRINGS BRANCH	Temperature Alterations /L	☐ Yes	⊠ No	☐ Yes	⊠ No
TN06010204042 – 1000 NINE MILE CREEK	Loss of biological integrity due to siltation /NA Escherichia coli /NA	⊠ Yes	□No	⊠ Yes	□No
TN06010204043 – 0200 BINFIELD BRANCH	Escherichia coli /NA	☐ Yes	⊠ No	☐ Yes	⊠ 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

1221 McArthur Road Maryville, TN 37804 Phone: 865-518-6904 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.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:



## BLOUNT COUNTY GOVERNMENT

#### STORMWATER DEPARTMENT

1221 McArthur Road Maryville, TN 37804 Phone: 865—518-6904 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.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.



## BLOUNT COUNTY GOVERNMENT STORMWATER DEPARTMENT

1221 McArthur Road Maryville, TN 37804 Phone: 865—518-6904 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 5.A: Monitoring, Recordkeeping and Reporting

#### Streams sampled.

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



#### **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

Nashville, TN 37243

Greg Denton TDEC-DWR

11th Floor Tennessee Tower 312 Rosa L. Parks Ave Knoxville, TN 37920 Leigh Yates

TDEC-DWR

Muchael M

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.

Michael McWilliams

Analytical Supervisor

chille

K1708039-01

**Project Name:** 

**TNPR0080** 

Sample Description:

**TNPR0080** 

Project Site No.:

ELLEJ008.0BT

Station No.:

Date/Time Collected:

Sampler Project Name:

08/22/2017

Sampler's Name:

DALE JAYNE

County:

Blount - 05

Sample Matrix:

EFO:

Knoxville EFO

Sampling Agency:

TDEC-DWR EN00019126

**Billing Code:** 

Send Report To: **Priority Date:** 

09/16/2017

Date/time Received:

08/22/2017

Received By:

**Agency Invoiced:** 

METHOD: 9223-B

External Id #:

Ashley Rhodes

TDEC-DWR

d/s A R Davis Road

TEST: Coliforms by QT

**Knoxville Regional Laboratory** 

11:01

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

K1708039-02

Project Name:

TNPR0080

Sample Description:

External ld #:

Sampler Project Name:

: TNPR0080

Project Site No.:

FIELDBLANKKEFO

Station No.:

Date/Time Collected:

08/22/2017

Sampler's Name:

DALE JAYNE

County:

Blount - 05

Sample Matrix:

EFO:

Knoxville EFO

Sampling Agency:

TDEC-DWR

Billing Code:

EN00019126

11:02

Send Report To:

Priority Date:

Date/time Received: 08

09/16/2017

08/22/2017

Agency Invoiced:

TDEC-DWR

Received By:

Ashley Rhodes

TEST: Coliforms by QT PERFORMING LAB:

Knoxville Regional Laboratory

METHOD: 9223-B

ANALYTE RESULT UNITS Qual ANALYZED BY DATE

Escherichia coli <1 MPN/100mL Sara Farrell 8/23/2017

K1708039-03

**Project Name:** 

**TNPR0080** 

Sample Description:

**TNPR0080** 

Project Site No.:

PITNE000.8BT

11:19

Station No.:

Date/Time Collected:

Sampler Project Name:

08/22/2017

DALE JAYNE

Sampler's Name: 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

Received By:

External ld #:

Ashley Rhodes

TDEC-DWR

200 yds d/s Ellejoy Road

TEST: Coliforms by QT

**PERFORMING LAB: Knoxville Regional Laboratory**  METHOD: 9223-B

Agency Invoiced:

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

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 EN00019126

Billing Code: Send Report To:

**Priority Date:** 09/16/2017

Date/time Received:

08/22/2017

Received By:

Agency Invoiced:

Ashley Rhodes

TDEC-DWR

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

K1708039-05

**Project Name:** 

**TNPR0080** 

Sample Description:

External ld #:

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

Agency Invoiced:

TDEC-DWR

Send Report To:

**Priority Date:** 

09/16/2017

Date/time Received:

08/22/2017

Received By:

METHOD: 9223-B

Ashley Rhodes

TEST: Coliforms by QT

**Knoxville Regional Laboratory** 

**PERFORMING LAB:** 

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

K1708039-06

Vacant lot, Peppermint Hills Rd

Project Name:

**TNPR0080** 

Sample Description:

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

Received By:

External ld #:

Ashley Rhodes

TDEC-DWR

TEST: Coliforms by QT

PERFORMING LAB: **Knoxville Regional Laboratory**  METHOD: 9223-B

Agency Invoiced:

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

K1708039-07

**Project Name:** 

**TNPR0080** 

Sample Description:

External ld #:

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

Sampler's Name:

12:18

County:

DALE JAYNE 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

PERFORMING LAB: **Knoxville Regional Laboratory**  METHOD: 9223-B

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

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

Sampler's Name:

12:22 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:

PERFORMING LAB:

08/22/2017

Agency Invoiced:

METHOD: 9223-B

TDEC-DWR

Received By:

Ashley Rhodes

TEST: Coliforms by QT

**Knoxville Regional Laboratory** 

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

K1708039-09

Project Name:

**TNPR0080** 

Sample Description:

External Id #:

100 yards u/s Unnamed Rd. off Roddy Branch

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:

PERFORMING LAB:

08/22/2017

Received By:

TDEC-DWR

TEST: Coliforms by QT

**Knoxville Regional Laboratory** 

METHOD: 9223-B

Agency Invoiced:

Ashley Rhodes

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

K1708039-10

**Project Name:** 

TNPR0080

Sample Description:

9-10 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

Agency Invoiced:

TDEC-DWR

Send Report To:

Priority Date:

09/16/2017

Date/time Received:

08/22/2017

Received By:

Ashley Rhodes

TEST: Coliforms by QT

PERFORMING LAB: Knoxville Regional Laboratory

METHOD: 9223-B

ANALYTE RESULT UNITS Qual ANALYZED BY DATE
Escherichia coli 166 MPN/100mL Sara Farrell 8/23/2017

K1708039-11

Project Name:

Sample Description:

**TNPR0080** 

Sampler Project Name:

**TNPR0080** 

Project Site No.:

POLEC001.0BT

Station No.:

Date/Time Collected:

08/22/2017 13:33

Sampler's Name:

County:

DALE JAYNE Blount - 05

Sample Matrix:

EFO:

Knoxville EFO

Sampling Agency:

TDEC-DWR

Billing Code:

EN00019126

Agency Invoiced:

External Id #:

TDEC-DWR

40 yds u/s RR Bridge, Pearly Smith Rd.

Send Report To:

**Priority Date:** 

09/16/2017

Date/time Received:

08/22/2017

Received By:

Ashley Rhodes

TEST: Coliforms by QT

METHOD: 9223-B

PERFORMING LAB: **Knoxville Regional Laboratory** 

**ANALYTE RESULT** UNITS Qual **ANALYZED BY** DATE 206 Escherichia coli MPN/100mL 8/23/2017 Sara Farrell

F1 1 F 1008 ORT			Flow Rate	
	l.		ORP, (mv)	Temperature. (°C)
6 Remarks			Turbidity. (NTU)	Dissolved Oxygen, (mg/L)
	rameters:	Other Field Parameters:	Chlorine, residual (mg/L)	Conductivity, (uminos)
5. Date cooler sealed			FIELD DETERMINATIONS	
				* denotes analyses performed only on water
4. Cooler scaled by				
locked State vehicle				residue, total*
3. Mode of transportation to lab			other microscopic	residue, suspended*
			bulk asbestos	residue, settleable*
2. Other samples collected			Asbestos	residue. dissolved*
4,000	Control Practicinal			Hq
Others present at collection	Other Metals:	Other:		nitrogen, nitrite*
		TCLP	TOC*	nitrogen, nitrate*
Additional Information		Dissolved	sulfide, total*	MBAS*
	hardness, total as CaCO <sub>3</sub> *	Normal	phenols, total	fluoride*
	hardness, Ca as CaCO;*	Metals Digestion type:	oil and grease	conductivity*
	zinc, Zn		cyanide	color
Date 122 17 Time 1530	vanadium. V		SPECIAL PRESERVATION	chromium, hexavalent
Logged in by A Khndy	thallium. Tl			chloride*
Date Time	strontium, Sr			CBOD, 5-day*
ved in Lab by	sodium. Na		phosphate, total	! BOD, 5-day*
Date Time	silver, Ag		nitrogen, total organic	alkalinity as CaCO <sub>3</sub> *
ab by	selenium, Sc		nitrogen, total Kjeldahl	acidity as CaCO <sub>3</sub> *
Date \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	potassium. K		nitrogen. NO, & NO2	Not Preserved
4. Received in Lab by A King of	nickel, Ni		nitrogen, ammonia	* General Inorganics
Date Time	тегсигу. Нд		COD*	
Delivered to	manganese, Mn		Preserved, Nutrient	Enterococcus*
Date Time	magnesium. Mg		turbidity*	X E. Coli*
3. Received by	lead, Pb		sulfate*	strep, fecal*
Date Time	lithium. Li		silica*	coliform, total*
	iron, Fe		ortho-phosphate	coliform. fecal*
Date \$   23   17 Time   257	copper, Cu	Other General Inorganics:	Gen. Inorganics (con't)	* Env. Microbiology *
2. Received by A. R. Mickel	cobalt, Co		Yates & C. VonHatten, DWR-KEFO; cc: G. Denton	SEND REPORT TO: L. Yates & C. V
Date 8-22-17 Time 13.57	chromium. Cr	CODE EN00019126	BILLING	IF PRIORITY, DATE NEEDED:
Delivered id. YZL	calcium. Ca		PO (	SAMPLING AGENCY: DWR-KEFO
Date 9/22/19 Time 10	cadmium, Cd		Date Dates	SAMPLER'S FULL NAME (printed)
1. Collected By Down	boron, B	0	TIME II	COLLECTED: DATE
	beryllium, Bc		/ Depth:	MAIKIA: Water
sample set or paint (if all collected at the same time)			-	
C 08/22/2017 11:01 0	barium, Ba	730	LONGITUDE: -83.7730	LATITUDE: 35.8000
	arsenic, As		ad	DESCRIPTION: d/s A R Davis Road
TO-TO-CC0007**	antimony. Sb		COUNTY: Blount - 05	STREAM MILE: 8.0
K1708030 01 01	aluminum. Al	'NAME: Ellejoy Creek	)BT WATERBODY NAME:	STATION NUMBER: ELLEJ008,0BT
Laboratory Number	Metals	*		PROJECT NAME: 303(d)
			The second secon	(Victor)

\* denotes analyses performed only on water SEND REPORT TO: C. VonHatten, DWR-KEFO; cc: G. Denton DWR-NCO SAMPLING AGENCY: SAMPLER'S FULL NAME (printed) IF PRIORITY, DATE NEEDED: COLLECTED: MATRIX: water DESCRIPTION: STATION NUMBER: STREAM MILE: LATITUDE: PROJECT NAME: Temperature. Conductivity, (jumbos) residue, settleable\* residue, dissolved\* nitrogen, nitrite\* Dissolved Oxygen, (mg/L) residue, suspended\* nitrogen, nitrate\* conductivity\* General Inorganics Env. Microbiology residue, total\* MBAS\* color chromnum, hexavalent chloride\* CBOD. 5-day\* BOD, 5-day\* acidity as CaCO,\* coliform, total\* fluoride\* alkalinity as CaCO,\* Enterococcus\* strep, fecal\* coliform, fecal\* Not Preserved DATE FIELDBLANKKEFO 200 DWR-KEFO other microscopic bulk asbestos Asbestos sulfide, total\* phenols, total oil and grease cyanide SPECIAL PRESERVATION nitrogen, total organic nitrogen, total Kjeldah nitrogen, NO3 & NO2 ortho-phosphate Gen. Inorganics (con't) silica\* phosphate, total nitrogen, ammonia turbidity\* sulfate\* COD\* Preserved, Nutrient Shr LONGITUDE: ORP, (mv) Flow Rate Chlorine, residual Turbidity: (XTD) COUNTY: FIELD DETERMINATIONS WATERBODY NAME: BILLING CODE Depth: TIME NO Blount-05 Other: TCLP Dissolved Metals Digestion type: Normal Other General Inorganics: EN00019126 Other Field Parameters: Other Metals: hardness, total as CaCO3\* hardness, Ca as CaCO,\* vanadium. V thallium, Tl strontium, Sr sodium, Na silver, Ag selenium. Se potassium, K nickel, Ni mercury, Hg manganese, Mn magnesium, Mg antimony, Sb Metals lead, Pb lithium, Li iron. Fe copper, Cu cobalt, Co chromium, Cr calcium. Ca cadmium, Cd boron, B beryllium. Be barium, Ba aluminum. Al arsenic, As 4. Cooler sealed by Mode of transportation to lab FIELD BLANK Other samples collected 4. Received in Lab by 6 Received in Lab by 5. Received in Lab by Locked State vehicle Additional Information Logged in by 3 Received by 2. Received by Collected By sample set or point (if all collected at the same time) Laboratory Number Date cooler sealed Remarks Others present at collection Date \$1/22 C, 08/22/2017 11:02 Date 7/23/1/ Date \$ 22 17 Date Delivered to Date Date Delivered to Date Date Delivered to 8-22-17 Time 8/22 K1708039-02-01 アなっ Time Time Time lime Time / Time Time Lime unic Jay Jay 1357 5 550



PITNE000.8BT			Flow Rate	114
			OKT. (mv)	Temperature, (°C)
6. Remarks			Turbidity. (NTD)	Dissolved Oxygen, (mg/L)
	arameters:	Other Field Parameters:	Chlorine, residual (mg/L)	Conductivity, (jumhos)
5. Date cooler scaled		MINATIONS	FIELD DETERMINATIONS	
Control of the second of the s			n water	* denotes analyses performed only on water
4 Cooler colled by				
locked State vehicle				residue, total*
3. Mode of transportation to lab			other microscopic	residue, suspended*
			bulk asbestos	residue, settleable*
2. Other samples collected			Asbestos	residue, dissolved*
				рH
1. Others present at collection	Other Metals:	Other:		nitrogen, nitrite*
		TCLP	TOC*	nitrogen, nitrate*
Additional Information		Dissolved	sulfide, total*	MBAS*
	hardness, total as CaCO <sub>1</sub> *	Normal	phenols, total	fluoride*
	hardness. Ca as CaCO,*	Metals Digestion type:	oil and grease	conductivity*
L. 1972 (1. 3vy	zinc, Zn		cyanide	color
Date 8/22/17 Time 1347 1530	vanadium, V		SPECIAL PRESERVATION	chromium, hexavalent
Logged in by A. Mhorld	thallium. Tl			chloride
Date	strontium, Sr			CDOD, 3-day
6. Received in Lab by	sodium. Na		phosphaic, ioial	CBOD & Jose
Date Time	silver, Ag		above total organic	BOD S days
ived in Lab by	selenium, se		mitrogen total organic	alkalinity as CaCO.*
010011	5-1		nitrogen (otal Kieldah)	acidity as CaCO,*
Date 277/17	potassium, K		nitrogen. NO, & NO.	Not Preserved
wed in Lab by	nickel. Ni		nitrogen, animonia	* General Inorganics
Date Time	mercury, Hg		COD*	
cred to	manganese, Mn		Preserved, Nutrient	Enterococcus*
	magnesium. Mg		turbidity*	X E. Coli*
ved by	lead. Pb		sulfate*	strep, fecal*
Date Time	fithium. Li		silica*	coliform. total*
ered to	iron. Fe		ortho-phosphate	coliform, fecal*
3	copper, Cu	Other General Inorganics:	* Gen. Inorganics (con't)	* Env. Microbiology
A Rhando	cobalt. Co		Yates & C. VonHatten, DWR-KEFO; cc: G. Denton	END REPORT TO: 1.
Date K-23-17 Time 12:57	chromium, Cr	BILLING CODE EN00019126	BILLIN	IF PRIORITY, DATE NEEDED:
Delivered to: ' \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	calcium. Ca		DWR-KEFO /	SAMPLING AGENCY DWR.
Date \$/2>/12 Tinhe // 16	cadmium, Cd		ed) Sale Sayus	ME
1. Collected By Data Turke	boron. B	1119	TIME	COLLECTED: DATE S
	beryllium. Be		Depth:	MAINIA: Water
sample set or point (If all collected at the same time)				MATRIX. mater
C: 08/22/2017 11:19 0	barium, Ba	-83.76829	LONGITUDE: -83.	LATITUDE: 35.81027
	arsenic, As		llejoy Road	DESCRIPTION: 200 yds d/s Ellejoy Road
VT/08032-03-01	antimony, Sb	Blount - 05	COUNTY:	
V1-700070 01 01	aluminum, Al	DY NAME: Pitner Branch	00.8BT WATERBODY NAME:	STATION NUMBER: PITNE000.8BT
Laboratory Number	* Metals			
1	-	H		

1	ŀ.				
ı	13	Ź	æ	3	1
ì	8			Ċ,	7
١	1	V,	1	(1)	۴

ELLEJ000.1BT			Flow Rate	_pH
			ORP. (mv)	Temperature, (°C)
6. Remarks			Turbidity (XTE)	Dissolved Oxygen, (mg/L)
	Parameters:	(A) Other Field Parameters:	Chlorine, residual (mg/L)	Conductivity, (µmhos)
5. Date cooler scaled		RMINATIONS	FIELD DETERMINATIONS	
4. Cooler sealed by			wide	* denotes analyses performed only on water
locked State vehicle				residue, total?
3. Mode of transportation to lab			other microscopic	residue, suspended*
			bulk asbestos	residue, settleable*
2. Other samples collected			Asbestos	residue, dissolved*
1. Others present at collection	Omer inicials:	CHECT		pH
1 (Albara reserve) of call	Other Metals	Other:		nitrogen, nitrite*
Additional information		TCLP	TOC*	nitrogen, nitrate*
	nardness, total as CaCO,	Discolved	sulfide, total*	MBAS*
	hardness, Ca as CaCO <sub>3</sub> *	Normal	phenols, total	fluoride*
	hardran Constitution	Natola Direction topo	oil and grease	conductivity*
0	zinc Zn		cyanide	color
77 A TUING	vanadium V		SPECIAL PRESERVATION	chromium, hexavalent
iii bw A	thallium. Ti			chloride*
Date	strontium, Sr			CBOD. 5-day*
ived in Lab by	sodium. Na		phosphate, total	BOD. 5-day*
Date Time	silver, Ag		nitrogen, total organic	alkalınıty as CaCO <sub>3</sub> *
b bv	selenium. Se		nitrogen, total Kjeldahl	acidity as CaCO;*
	potassium, K		nitrogen. NO, & NO.	Not Preserved
ived in Lab by	nickel, Ni		nitrogen, ammonia	Gener.
Date Time	mercury. Hg		COD*	2
ered to	manganese, Mn		Preserved, Nutrient	Enterococcus*
	magnesium. Mg		turbidity*	X E. Coli*
yed by	lend Ph		sulfate*	strep, fecal*
Date	lithium 1		silica*	coliform, total*
	iron Fo		ortho-phosphate	coliform, fecal*
Date X199117 Time	conner (II	Other General Inorganics:	* Gen. Inorganics (con't)	* Env. Microbiology
ved by	cobalt. Co		VonHatten, DWR-KEFO; cc:	SEND REPORT TO: L. Yates & C.
Date X 23 . 1 Time 13	chromium. Cr	ING CODE EN00019126	BILLING	IF PRIORITY, DATE NEEDED:
127	calcium, Ca		DWR-KEFO V	SAMPLING AGENCY: DWR.
Date \$22/ Time 1/31/	cadmium, Cd	,	ed) DUST m Teague	ME
1. Collected By T. T. Bass	boron, B	11211	1/2	COLLECTED: DATE Y
	beryllium. Be		Depth:	er
sample set or paint (if all collected at the same time)	paridin, Da		-	
C: 08/22/2017 11:34 0	horium Da	-83 84909	LONGITIDE: -S	LATITUDE: 35,77325
	arsenic. As		At Ellejoy Creek Road Crossing	DESCRIPTION: At Ellejoy Cre
	antimony, Sb		COUNTY: Bi	STREAM MILE: 0.1
K1708039-04-01	aluminum, Al	WATERBODY NAME: Ellejoy Creek		STATION NUMBER: ELLEJ000.1BT
Laboratory Number	* Netals			



PEPPE000.7BT			Flow Rate	PH
o. Kemarks			ORP. (mv)	Temperature, (°C)
		Other Field Parameters:	Turbidiw (NTU)	Dissolved Oxygen, (mg/L)
5. Date cooler scaled		NATIONS		Conductacity (makes)
4. Cooler sealed by			vater	* denotes analyses performed only on water
locked State vehicle				Teatride, 10th
3. Mode of transportation to lab			other microscopic	residue, suspended*
			bulk asbestos	residue, settleable
2. Other samples collected			Asbestos	residue, dissolved*
1. Others present at collection	Other Metals:	Omer:		Hq
		ICLP	100	nitrogen, nitrite*
Additional Information		Dissolved	TOO*	nitrogen nitrate*
	hardness, total as CaCO <sub>3</sub> *	Normal	phenois, total	MBAS*
	hardness. Ca as CaCO <sub>3</sub> *	Metals Digestion type:	oil and grease	dinoride*
	zinc, Zn		cyanide	color *
17/17	vanadium, V		SPECIAL PRESERVATION	ch official, acadvalent
Logged in by A Chandel	thallium. Tl		3	chronics barries
Date Time	strontium. Sr			Aborita*
wed in Lab by	sodium. Na		phosphate, total	1300. 5-0ay
	silver, Ag		nitrogen, total organic	alkalınıty as CaCO <sub>3</sub> *
wed in Lab by	selenium. Se		nitrogen, total Kjeldahl	acidity as CaCO <sub>3</sub> *
Tin :	potassium. K		nitrogen, NO <sub>3</sub> & NO <sub>2</sub>	Not Preserved
4 Received in Lab by A Planta	nickel. Ni		nitrogen. ammonia	* General Inorganics
Date	mercury Ho		COD*	
Delivered to	managnose Ma		Preserved, Nutrient	Enterococcus*
Date	magnesium Ma		turbidity*	X E. Coli*
3 Received by	lead Ph		sulfate*	strep, fecal*
	lithium I		silica*	coliform, total*
2	iron Fa	g	ortho-phosphate	coliform, fecal*
Date 9/2/117 Time	conner Cir	Other General Ingranics:	Gen. Inorganics (con't)	* Env. Microbiology *
ved by	cobalt. Co		Yates & C. VonHatten, DWR-KEFO; cc: G. Denton	SEND REPORT TO: L. Yates & C.
Time I	chromium, Cr	CODE EN00019126	BILLING CODE	IF PRIORITY, DATE NEEDED:
ered to:	calcium. Ca		,	SAMPLING AGENCY: DWR-KEFO
٧	cadmium, Cd	- 3	Justin 100	ME (pr
1. Collected By	boron, B	1:56	8-42-17 TIME /	COLLECTED: DATE &
The second secon	beryllium, Be		Depth:	er
sample set or point (i) all collected at the same time.	barium, Ba	9604	LONGITUDE: -83.89604	53,790/4
	arsenic. As			1 3
K1708039-05-01	antimony, Sb	1-05	COUNTY: Blount - 05	DESCRIPTION: Vanishing
	aluminum, Al	NAME: Peppermint Branch	WATERBODY NAME:	15
Laboratory Number	* Metals			
		The second secon		



# FIELD DUPLICATE

PEPPE000.7BT		e	Flow Rate	1
		(v)	ature, (°C) ORP, (mv)	Temperature,
6. Remarks		XTC)	ygen. (mg/L)	Dissolvi
	Other Field Parameters:	(mg/L)		Conduc
5. Date cooler sealed		FIELD DETERMINATIONS		
4. Cooler sealed by			denotes analyses performed only on water	* denotes an
locked State vehicle			10(a) *	residue, total*
3. Mode of transportation to lab			residue. suspended* other microscopic	residue.
				residue.
2. Other samples collected			residue, dissolved*  Asbestos	residue,
1. Officis present at collection	Other Metals:	Carri		PH (
		Other		nitroger
Additional Information		Disologi	nitrogen, nitrate*  TOC*	nitroger
	hardness, total as CaCO,*	Normal		MRAS*
	hardness, Ca as CaCO <sub>3</sub> *	Metals Digestion type:		Conductivity
0	zinc, Zn			color
Date 8/27/17 Time 1536	vanadium, V	WATION	chromium, hexavaient SPECIAL PRESERVATION	chroini
Logged in by A. Market	thallium, TI			chioride*
Date Time	strontium, Sr		CBOD, 5-day*	CBOD
6. Received in Lab by	sodium, Na		phosphate, total	BOD, 5-day*
Date Time	silver, Ag	ic	alkalinity as CaCO,* nitrogen, total organic	alkalın
5. Received in Lab by	selenium, Se	ahl	acidily as CaCO <sub>3</sub> * nitrogen, total Kjeldahl	acidity
Date 8/22/17 Time 1357	potassium. K	),	Not Preserved nitrogen, NO, & NO,	
4. Received in Lab by A Khodel	nickel, Ni		9	* Gener
Date Time	mercury. Hg		(COD*	
ered to	manganese, Mn	ufrient	Enterococcus* Preserved, Nutrient	Entero
	magnesium, Mg		* turbidity*	X E. Coli*
ved by	lead. Pb			strep, fecal*
Date Time	lithium, Li		[a]*	colifor
ered to				colifor
Date \$12211			Env. Microbiology * Gen. Inorganics (con't)	* Env. N
ved by	cobalt, Co	G. Denton	SEND REPORT TO: L. Yates & C. VonHatten, DWR-KEFO; cc:	SEND REI
C Time >	chromium, Cr	BILLING CODE EN00019126	IF PRIORITY, DATE NEEDED:	IF PRIOR
27	calcium. Ca		~KEFO	SAMPLIN
Date 6. 13.17 Time // 7	cadmium, Cd	Teaswal	SAMPLER'S FULL NAME (printed)	SAMPLER
1. Collected By	boron, B	TIME //:57	"ED: DATE 87-82-17	COLLECTED:
	beryllium, Be	Depth:		MATRIX: water
sample set or point (if all collected at the same time)	barium, Ba	LONGITUDE: -83.89604	35.79074	LATITUDE
C: 08/22/2017 11:01	arsenie, As			DESCRIPTION:
	antimony, Sb	COUNTY: Blount - 05	V	DESCRIPTION.
K1708039-06-01		- 1	0.7	STREAM
Jakaratary Number	* Metals		1	FROJECT NAME
1,	The same of the sa			LJaloga

WILDW000.1BT			Flow Rate	HU
			ORP. (Inv)	Temperature, (°C)
6 Remarks				Dissolved Oxygen, (mg/L)
	rameters:	Other Field Paramete	Chlorine, residual (mg/L)	Dissolved (June 1991)
5. Date cooler senled		INATIONS		actions annihology performed only an water
4. Cooler sealed by			water	" dans bound searthan setoned "
locked State vehicle				residue, total*
3. Mode of transportation to lab			other microscopic	residue, suspended*
			bulk asbestos	residue, settleable*
2. Other samples collected			Asbestos	residue, dissolved*
r. Sousis present at collection	Olifer means.			Нд
Others present at williams	Other Metals:	Other		nitrogen, nitrite*
Common and Hallon		TCLP	TOC*	nitrogen, nitrate*
Additional Information	The section to the contract of	Dissolved	sulfide, total*	MBAS*
	hardness, total as CaCO:*	Normal	phenols, total	l fluoride*
	hardness Calas CaCO.*	Metals Direction type:	oil and grease	conductivity*
OCCI anni I IPATY and	zinc Zn		cyanide	color
100	vanadium V		SPECIAL PRESERVATION	chromium, hexavalent
in by A VI	thallium Ti			chloride*
Date	strontium Sr			CBOD, 5-day*
ived in Lab Sw	sodium. Na		phosphate, total	BOD, 5-day*
- 10	silver. Ag		nitrogen, total organic	alkalinity as CaCO <sub>5</sub> *
ved in Lab by	selenium. Se		nitrogen, total Kjeldahl	acidity as CaCO <sub>3</sub> *
Date 7/17/17 Time	potassium, K		nitrogen, NO <sub>3</sub> & NO <sub>2</sub>	Not Preserved
ived in Lab by	nickel. Ni		nitrogen, ammonia	* General Inorganics
Date Time	mercury. Ho		COD*	
Delivered to	magness Mn		Preserved, Nutrient	Enterococcus*
Date	magnasium Ma		turbidity*	X E. Coli*
2 Because I III e	initiality by		sulfate*	strep, fecal*
rered to	iron, Fe		silica*	coliform, total*
Date \$122117 Time 1357	copper, Cu	Other General Inorganics:	+	coliform facult
A. Khados	cobalt, Co		C. VonHatten, DWR-KEFO; cc: G. Denton	Yates &
Date 8 - 32-17 Time 13:57	chromium, Cr	CODE   EN00019126	BILLING CODE	EEDED
Delivered to: KRL	calcium, Ca		,	SAMPLING AGENCY: DWR-KEFO
Date 8-23-17 That 18:15	cadmium, Cd	ayna	Jale Jale	ME
1. Collected By Salar Salar	boron, B	2:18	TIME I	COLLECTED: DATE S
•	beryllium, Be		Depth:	MATRIX: water
sample set or point (if all conecieu ai me sum ting)	barium, Ba	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	LONGITUDE: -83.8	DATE 00E: 35.81218
	arsenic, As		80 yds u/s priv. drive off Andy Harris Rd	O.X.
K1/08039-07-01	antimony, Sb		COUNTY: Blount - 05	
	aluminum, Al	Y NAME: Wildwood Branch	000.1BT WATERBODY NAME:	0
Laboratory Number	Metals	*		
				-



PROJECT NAME: 80(4)   WATERBODY NAME: Neils Creek   Project NAME: STRIANATURE   9.7   COUNTY: Florid   1.00   COUNTY: Florid	NAILS000.7BT			Flow Rate	Dil
COUNTY:   Blount - 05   antimopy, Sh				ORP, (mv)	I emperature, (°C)
COUNTY:   Plount - 05   Anis Creek   animony. Sh	6. Remarks			Intridity, (NTU)	Dissolved Oxygen, (mg/L)
ridge  COUNTY: Bloant - 05  COUNTY: Bloant - 05  Antimory, Sh boron, B boron, B cadmium, Cd calcium, Ca calcium,		er Field Parameters:	Oth	Chlorine, residual (mg/L)	Conductivity, (umhos)
ridge  COUNTY: Blount - 05  Aluminum, Al arim, Ba barium, Ba beryllium, Be beryllium, Be boron, B attun, DWR-KEFO; cc: G. Denton  Collaten, DWR-KEFO; cc:			VATIONS-		
Metals   Marian   Metals   Metals   Metals	4. Cooler sealed by			water	* denotes analyses performed only on
Metals   STATION NUMBER: NAILS (2002) RET   MATERBODY NAME: Nails Creek   aluminum. All	locked State vehicle				residue, iotal*
Metals   Matter   M	3. Mode of transportation to lab			other microscopic	residue, suspended*
Metals   Maria   Maria   Maria   Metals   Metals				bulk asbestos	residue, settleable*
Metals   Metals   Metals   Metals   Metals   Metals	2 Other samples collected			Asbestos	residue, dissolved*
Metals   Matter   M	1. Others present at collection	Other Metals:	Other:		pH
Metals   Matter   M			TCLP	Toc*	nitrogen, mitrate*
MATERION NUMBER: NAILS000,7BT	Additional Information		Dissolved	sulfide, total*	NEW YORK
Metals   STATION NUMBER: NAILSONO.7BT   WATERBODY NAME: Nails Creek   antinoun. Al aluminum. Aluminu		hardness, total as CaCO <sub>3</sub> *	Normal	phenois, total	fluoride*
Matals   Matals   Matals		hardness, Ca as CaCO <sub>3</sub> *	Metals Digestion type:	oil and grease	conductivity*
Metals   STATION NUMBER: NAILSO00,7BT   WATERBODY NAME: Nails Creek   aluminum, Al	01201	zinc. Zn		cyanide	color
MATRIX   MAILSONO, TBT   MATERBODY NAME: Nails Creek   aluminum, Al	20/10 Time ICA	vanadium, V		SPECIAL PRESERVATION	chromium, hexavalent
PROJECT NAME: 303(d)  WATERBODY NAME: Nails Creek  aluminum, Al  STRATION NUMBER: NAILS000/TRT  WATERBODY NAME: Nails Creek  aluminum, Al  strenkin, Al  str	A Ph	thallium, Ti			chloride*
Metals   STATION NUMBER:   NAILS000.7BT   WATERBODY NAME:   Nails Creek   aluminum, Al	-	strontium, Sr			CBOD, 5-day *
Medials   Marticolon NUMBER: NAILS000.7BT   WATERBODY NAME: Nails Creek   Aluminum, Al stream MILE: 0.7   COUNTY: Blount - 0.5   Audition, Shall   Blount - 0.5   Blount - 0.5   Bartium, Ba		sodium, Na		phosphate, total	BOD, 5-day *
MATERION NUMBER: NAILS000/7BT   WATERBODY NAME: Nails Creek   aluminum, Al	Date	silver, Ag		nitrogen, total organic	alkalinity as CaCO <sub>1</sub> *
MATERION NUMBER: NAIL \$000.7BT   WATERBODY NAME: Nails Creck   aluminum, Al	Received in Lab by	selenium, Se		nitrogen, total Kjeldahl	acidity as CaCO <sub>5</sub> *
MATERION NUMBER: NAILS000.7BT   WATERBODY NAME: Nails Creek   aluminum, Al aluminum, Aluminum, Al aluminum, Allaminum, Allaminum, Allaminum, Allaminum, Allaminum, Allaminum, Aluminum, Alu		potassium, K		nitrogen, NO <sub>1</sub> & NO <sub>2</sub>	Not Preserved
Mount   303(d)   Martis   303(d)   Martis   Mount   Martis   Mount   Martis   Mount   Martis   Mails   Creek   aluminum, Al	Received in Lab by	nickel, Ni		nitrogen, ammonia	Gener
Metals		mercury. Hg		COD*	-
Metals	ered to	manganese Mn		Preserved, Nutrient	Enterococcus*
*** Metals *** Metals *** Metals *** Metals *** Metals *** TATION NUMBER: NAILS 000.7BT WATERBODY NAME: Nails Creek aluminum, Al aluminum, Ba aluminum, Ba barium, Ba  **ATITUDE: 35.81360 LONGITUDE: -83.88261 barium, Ba  **ATITUDE: 35.81360 LONGITUDE: -83.88261 barium, Ba  **ATITUDE: -83.88261 barium, Ba  **ATITUDE: -83.88261 barium, Ba  **BATITUDE:		magnesium, Mg		turbidity*	-
NAILS000.7BT  WATERBODY NAME: Nails Creek  aluminum. Al antimony. Sb  dy Harris Road Bridge  LONGITUDE: -83.88261  Depth:  Depth:  BILLING CODE  Totho-phosphate  Time Gen. Inorganics (con't)  Time General Inorganics:  Time Gen		lead. Ph		sulfate*	1
NAILS000.7BT   WATERBODY NAME: Nails Creck   aluminum, Al antimony, Sb		lithium. Li		silica*	coliform, total*
MAILS000.7BT   WATERBODY NAME: Nails Creck   aluminum, Al antimony, Sb	910011		0	ortho-phosphate	coliform, fecal*
NAILS000.7BT   WATERBODY NAME: Nails Creck   aluminum, Al antimony, Sb	Date Vingin		Other General Inorgan	94	Env. Microbiology
NAILS000.7BT  WATERBODY NAME: Nails Creck aluminum, Al autimony. Sb dy Harris Road Bridge  LONGITUDE: -83.88261 barium, Ba  BIATE \$ 2.2.7 TIME 14.3.3 beryllium. Be boron. B  ME (printed) Del Day NAC  BILLING CODE EN00019126 chromium. Cr	Received by			G. Denton	
NAILS000.7BT WATERBODY NAME: Nails Creek aluminum, Al antimony, Sb dy Harris Road Bridge LONGITUDE: -83.88261 barium, Ba  NATE 8-22-17 TIME 13-33 beryllium, Be boron, B  ME (printed) De Couy 7.6. cadmium, Cd calcium, Ca	A. 27 Time	chromium, Cr		BILLING	IF PRIORITY, DATE NEEDED:
NAILS000.7BT  WATERBODY NAME: Nails Creek aluminum, Al  COUNTY: Blount - 05  dy Harris Road Bridge  LONGITUDE: -83.88261  Depth: barium, Ba  DATE 8-22-/7  TIME 14-33  ME (printed)  County: Blount - 05  antimony, Sb  arsenic, As  barium, Ba  beryllium, Bc  cadmium, Cd	10: VO	calcium, Ca			
BT WATERBODY NAME: Nails Creek aluminum. Al antimony. Sb  Bridge LONGITUDE: -83.88261 barium, Ba  Depth: boron, B  * Metals  aluminum. Al antimony. Sb  arsenic, As  barium, Ba  beryllium. Be	シンプーで	cadmium. Cd		Dale	SAMPLER'S FULL NAME (printe
ME:         303(d)         * Metals           VIBER:         NAILS000.7BT         WATERBODY NAME:         Nails Creek         aluminum, Al           E:         0.7         COUNTY:         Blount - 05         antimony, Sb           V:         Andy Harris Road Bridge         LONGITUDE:         -83.88261         barium, Ba           35.81360         Depth:         beryllium, Be	1. Collected By Date 1	boron, B		2-17 TIME	COLLECTED: DATE 8
E: 303(d) * Metals  BER: NAILS000.7BT WATERBODY NAME: Nails Creek aluminum, Al  COUNTY: Blount - 05 antimony, Sb  Andy Harris Road Bridge LONGITUDE: -83.88261 barium, Ba		beryllium. Be			er
303(d) * Metals   Metals   NAILS000.7BT   WATERBODY NAME: Nails Creck   aluminum, Al   antimony, Sb   arsenic, As   S81360   LONGITIDE: -83.88261   Assistance	sample set or point (if all collected at the same time)	Pai luiti, Da			
NAILS000.7BT WATERBODY NAME: Nails Creek aluminum, Al  COUNTY: Blount - 05 antimony, Sb  ndy Harris Road Bridge arsenic, As	C: 08/22/2017 12:22 0	harium Da	261	-	
303(d) * Metals  NAILS000.7BT WATERBODY NAME: Nails Creek aluminum, Al  COUNTY: Blount - 05 antimony, Sb		arsenic, As		oad Bridge	
NAILS000.7BT WATERBODY NAME: Nails Creek aluminum, Al	V1/08039-08-01	antimony, Sb		COUNTY: Blount	
303(d) * Metals	V170000	aluminum, Al			
	Laboratory Number	* Metals			

RODDY000.6BT			Flow Rate	pl	
			ORP. (mv)	Temperature, (°C)	
6. Remarks			Turbidity: (NTU)	Dissolved Oxygen, (mg/L)	
	Parameters:	Other Field Parameters:	Chlorine, residual (mg/l-)	Conductivity, (jumbos)	
5. Date cooler sealed		MINATIONS	FIELD DETERMINATIONS		
4. Cooler scaled by			water	* denotes analyses performed only on water	X-
locked State vehicle				I concert to tel	1
3. Mode of transportation to lab			omer illeroscopie	recidue total*	- 1
			other microscopic	residue suspended*	- 1
2. Other samples collected			hilk acheeine	residue, settleable*	
			Ashrefos	residue, dissolved*	
1. Others present at collection	Other Metals:	Other:		pH	
		î i i i i i i i i i i i i i i i i i i i	100.	nitrogen nitrite*	
Additional Information		Dissolved	Sulling Total	nilrogen mirate*	
	hardness, total as CaCO <sub>3</sub> *	Normal	prichors, total	MRAS*	
	hardness, Ca as CaCO,*	Metals Digestion type:	on and grease	fluoride*	
	zinc, Zn		cyannuc	COnductivity	
Date 8/27/17 Fine 1530	vanadium. V		STECIAL PRESERVATION	COLOR DESCRIPTION OF THE COLOR	
Logged in by A. Khall	thallium, Ti		CDECIAL PROCESSION	chronium becaudent	- 1
Date	strontium, Sr			chloride*	- 1
wed in Lab by	Socium, Na		Service of Control of the Control	CBOD. 5-dav*	
	Silver, Ag		phosphale total	BOD. 5-dav*	[1,1]
Deta	Scientian 3c		nitrogen, total organic	alkalinity as CaCO <sub>1</sub> *	
	selenium Sc		nitrogen, total Kjeldahl	acidity as CaCO,*	
Date 9/77 Inne	potassium, K		nitrogen, NO <sub>3</sub> & NO <sub>2</sub>	Not Preserved	
ived in Lab by	nickel. Ni		nitrogen, ammonia	* General Inorganics	
Date	mercury. Hg		COD*	-	1
ered to	manganese Mn		Preserved, Nutrient	Enterococcus*	1
	magnesium, Mo		turbidity*	X E. Coli*	
ved by	lead Ph		sulfate*	strep, fecal*	
Dale Time	lithium Li		silica*	coliform, total*	
4	ron Eo	Barrier .	ortho-phosphate	coliform, fecal*	
Date 9/77/17	CORPCE	Other General Ingranies:	Gen. Inorganics (con't)	* Env. Microbiology	
ved by	cobalt. Co		VonHatten, DWR-KEFO; cc:	SEND REPORT TO: L. Yates & C.	-
7 Time	chromium. Cr	BILLING CODE EN00019126	BILLIN	IF PRIORITY, DATE NEEDED:	
0	calcium, Ca		FO	SAMPLING AGENCY: DWR-KEFO	1
Date & 27 A Time 730	cadmium. Cd		SOLD STATES	SAMPLER'S FULL NAME (printed)	1
1. Collected By J Togsell	boron. B	1238	Z A TIME	COLLECTED: DATE 8/2	1
	beryllium, Be		Depth:	er	1
sample set or point (if all collected at the same time)				MATDIW. mater	-
C: 0B/22/2017 12:38 0 —	barium. Ba	-83.92823	LONGITUDE: -83	LATITUDE: 35.85472	-
	arsenic, As		100 yards u/s Unnamed Rd. off Roddy Branch Rd.	DESCRIPTION: 100 yards u/s 1	****
K1/08039-09-01	antimony, Sb		COUNTY: Blou	STREAM MILE: 0.6	-
	aluminum. Al	DY NAME: Roddy Branch	000.6BT WATERBODY NAME:	STATION NUMBER: RODDY000.6BT	7
Laboratory Number	* Metals	100 100 100 100 100 100 100 100 100 100		PROJECT NAME: 303(d)	7
					m



1 STATE OF THE PARTY OF THE PAR				
PICTOMATRT			Flow Rate	
			ORP. (mv)	Temperature, (°C)
6. Remarks			Turbidity, (NTL)	Dissolved Oxygen, (mg/L)
	ameters:	Other Field Parameters:	Chlorine, residual (mg/L)	Conductivity, (µmhos)
5. Date cooler sealed		INATIONS	FIELD DETERMINATIONS	
4. Cooler sented by			water	* denotes analyses performed only on water
locked State vehicle				
5. Midde of transportation to lan			C 100 40 11 100 C C C C C C C C C C C C C C C C	residue, total*
3 Viola Cronnelli III			other microscopic	residue, suspended*
			bulk asbestos	residue, settleable*
2 Other canades collected			Asbestos	residue, dissolved*
Uniers present at collection	Other Metals:	Calci.		pH
- 24		Other.	Cr	nitrogen, nitrite*
Additional information		TC1 D	TOC*	nitrogen, nitrate*
	naidness, total as Cacos	Discolund	sulfide lotal*	MBAS*
	hardness total of CaCOs	Normal	phenois, total	fluoride*
	hardware Cone CaCO *	Matole Direction type:	oil and grease	conductivity*
1 11 3 5 18	zinc Zn		cyanide	color
77 17 Tune 15			SPECIAL PRESERVATION	chromium, hexavalent
in by A Whi				chloride*
Date				CBOD. 3-day*
6. Received in Lab by	a		phosphate, total	BOD, 5-day*
Date Time	silver, Ag		nitrogen, total organic	alkalimity as CaCO <sub>3</sub> *
5. Received in Lab by			nitrogen, total Kjeldahl	acidity as CaCO <sub>3</sub> *
Date \$/27/17 Time 13<7	potassium, K		mtrogen, NO <sub>3</sub> & NO <sub>2</sub>	Not Preserved
4. Received in Lab by	nickel, Ni		nitrogen, ammonia	Gener
Date Time	тегсигу. Нд		COD*	
Delivered to	manganese, Mn		Preserved, Nutrient	bnierococcus*
Date Time	magnesium. Mg		turbidity.*	> E. COII*
ived by			sulfate*	+
Date Time	lithium. Li		silica*	coliform, total*
	iron, Fe		ortho-phosphate	collform, fecal*
Date 8/22/17 Time 1357	copper, Cu	Other General Inorganics:	* Gen. Inorganics (con't)	ogy
A. Khodes	cobalt, Co		Yates & C., VonHatten, DWR-KEFO; cc: G. Denton	END REPORT TO: L.
Date 8-22-17 Time 13:57	chromium. Cr	CODE EN00019126	BILLING CODE	IF PRIORITY, DATE NEEDED:
KRL	calcium, Ca			SAMPLING AGENCY: DWR-KEFO
Date 3/22/7 Time /25-1	cadmium, Cd		Day Day Labor	ME
1. Collected By J. Taray	boron. B	25	SIFT TIME INS	COLLECTED: DATE SZ
	beryllium, Be		Depth:	THE PARTY PARTY
At the surrection of the strike (IIIIe)				MATRIN. mater
C 08/22/2017 12-51	barium, Ba	434	LONGITUDE: -83.9434	LATITUDE: 35.8175
	arsenic. As		100 yards u/s Singleton Road (Williams Mill Rd.)	DESCRIPTION: 100 yards u/s S
K1708039-10-01	antimony. Sb	1-05	COUNTY: Blount - 05	1
	aluminum, Al	'NAME: Pistol Creek	0.2BT WATERBODY NAME:	SET.
Laboratory Number	Metals	4-		1
	The second secon			



POLECOM ORT			Flow Rate	PH
			ORP. (mv)	Temperature, (%)
6. Remarks			Turbidity, (NTU)	Dissolved Oxygen, (mg/L)
	arameters:	(1.) Other Field Parameters:	Chlorine, residual (mg/L)	Conductivity, (µmhos)
5. Date cooler sealed		MINATIONS	FIELD DETERMINATIONS	
4. Cooler sealed by			n water	* denotes analyses performed only on water
locked State vehicle				STATE OF THE STATE
3. Mode of transportation to lab			other microscopic	residue total*
			bulk asbestos	residue setteapter
2. Other samples collected			Asbestos	residue, dissolved*
- Cureis present at collection	Curci Macialo.			pH
Others present at collection	Other Metals:	Other:		nitrogen, nitrite*
Trophonal Intelliging		TCLP	TOC*	nitrogen, nitrate*
Additional Information		Dissolved	sulfide, total*	MBAS*
	hardness, total as CaCO,*	Normal	phenols, total	fluoride*
	hardness. Ca as CaCO,*	Metals Digestion type:	oil and grease	conductivity*
0.000	zinc, Zn		cyanide	color
Time Time	vanadium, V		SPECIAL PRESERVATION	chromium, hexavalent
in by A KM	thallium. Tl		•	chioride
Date	strontium, Sr			CBOD, 3-day
6 Received in Lab by	sodium. Na		phosphate, total	CBOD & Jos. *
Date Time	silver, Ag		nitrogen, total organic	BOD 5 days
5. Received in Lab by	selenium, Se		nitrogen, total Njeldahi	albalinin as CaCO *
Date 8/22/17 Time 1357	polassium, K		ninogen 1403 to 1402	acidin as CaCO.*
4. Received in Lab by A. Maddy	nickel, Ni		nitrogen NO. & NO.	Not Preserved
Date	mercury, 11g		nifrocen ammonia	* General Inorganics
elen to	manganese, viii		COD*	
Dalbarada	magnesiam, ivig		Preserved, Nutrient	Enterococcus*
Date Time	magnesium Mo		turbidity*	X E. Coli*
	lead Dh		sulfate*	strep, fecal*
Date Time	lithing Li		silica*	coliform, total*
ìL.	iron Fo	J	ortho-phosphate	colitorm, tecal*
Date 9/77/13	conner (1)	Other General Inorganics:		" Env. Microbiology
ved by	cobalt, Co		VonHatten, DWR-KEFO; cc:	SEND REPORT TO: L. Yates & C.
207 Time	chromium, Cr	BILLING CODE EN00019126		IF PRIORITY, DATE NEEDED:
TO VIOLE	calcium. Ca		DWR-KEFO	SAMPLING AGENCY: DWF
Date \$ 720 Time . 353	cadmium, Cd		ited) Later Jane	SAMPLER'S FULL NAME (printed)
1. Collected By D Say	boron, B	1355	TIME	COULECTED: DATE &
	beryllium. Be	Depth: 16)	Depth	5
sample set or point (if all collected at the same time)				MATRIX, water
C: 08/22/2017 13:33 0	barium. Ba	-83.98046	LONGITUDE: -8	LATITUDE: 35.84909
	arsenic, As		40 yds u/s RR Bridge. Pearly Smith Rd.	DESCRIPTION: 40 yds u/s R
K1/08039-11-01	antimony, Sb	Blount - 05	NTY:	
	aluminum. Al	WATERBODY NAME: Polecat Creek	POLECOOLOBT WATERBO	BER:
Laboratory Number	* Metals			



#### **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

chille

Lab ID: K1708052

Knoxville Regional Laboratory

Sent To:

Christie VonHatten

TDEC-DWR

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.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.

Michael McWilliams
Analytical Supervisor

K1708052-01

**Project Name:** 

**TNPR0080** 

Sample Description:

External Id #:

200 yds d/s Ellejoy Road

Sampler Project Name:

**TNPR0080** 

**Project Site No.:** 

PITNE000.8BT

09:40

Station No.:

Date/Time Collected:

08/30/2017

Dale Jayne

County:

Blount - 05

Sample Matrix:

Sampler's Name:

EFO:

Knoxville EFO

Sampling Agency:

TDEC-DWR EN00019126

**Billing Code:** Send Report To:

**Priority Date:** 

09/24/2017

Date/time Received:

08/30/2017

Agency Invoiced:

TDEC-DWR

Received By:

METHOD: 9223-B

Ashley Carroll

TEST: Coliforms by QT

PERFORMING LAB: **Knoxville Regional Laboratory** 

Escherichia coli 387 MPN/100mL		
Escherichia coli 387 MPN/100mL	Ashley Carroll	8/31/2017

K1708052-02

Project Name:

TNPR0080

Sample Description:

External Id #:

Sampler Project Name:

Name: TNPR0080

Project Site No.:

**FIELDBLANKKEFO** 

Station No.:

Date/Time Collected:

08/30/2017

Sampler's Name:

09:42

County:

Dale Jayne Blount - 05

Sample Matrix:

EFO:

Knoxville EFO

Sampling Agency:

TDEC-DWR

Billing Code:

EN00019126

Agency Invoiced:

TDEC-DWR

Send Report To:

**Priority Date:** 

09/24/2017

Date/time Received:

08/30/2017

Received By:

Ashley Carroll

TEST: Coliforms by QT
PERFORMING LAB:

Knoxville Regional Laboratory

METHOD: 9223-B

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

K1708052-03

**Project Name:** 

**TNPR0080** 

Sample Description:

External ld #:

d/s A R Davis Road

Sampler Project Name:

**TNPR0080** 

Project Site No.:

ELLEJ008.0BT

Station No.:

Date/Time Collected:

08/30/2017

Sampler's Name:

Justin Teague

09:54

County:

Blount - 05

Sample Matrix:

EFO:

Knoxville EFO

Sampling Agency:

TDEC-DWR

Billing Code:

EN00019126

Agency Invoiced:

TDEC-DWR

Send Report To:

**Priority Date:** 

09/24/2017

Date/time Received:

08/30/2017

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 8/31/2017 MPN/100mL Ashley Carroll

K1708052-04

**TNPR0080** 

Sample Description:

**Project Name:** 

External Id #:

At Ellejoy Creek Road Crossing

Sampler Project Name:

**TNPR0080** 

Project Site No.:

ELLEJ000.1BT

Station No.:

Date/Time Collected:

08/30/2017

Sampler's Name:

10:10

Dale Jayne Blount - 05

Sample Matrix:

EFO:

County:

Knoxville EFO

Sampling Agency:

TDEC-DWR

Billing Code:

EN00019126

Agency Invoiced:

TDEC-DWR

Send Report To:

**Priority Date:** 

09/24/2017

Date/time Received:

08/30/2017

Received By:

Ashley Carroll

TEST: Coliforms by QT

METHOD: 9223-B

PERFORMING LAB: **Knoxville Regional Laboratory** 

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

Sample Description:

K1708052-05

**Project Name:** 

**TNPR0080** 

Vacant lot, Peppermint Hills Rd

Sampler Project Name:

**TNPR0080** 

Project Site No.:

PEPPE000.7BT

Station No.:

Date/Time Collected:

08/30/2017

Sampler's Name:

10:29 Justin Teague

County:

Blount - 05

Sample Matrix:

EFO:

Knoxville EFO

Sampling Agency:

TDEC-DWR

Billing Code:

EN00019126

Agency Invoiced:

External ld #:

TDEC-DWR

Send Report To:

**Priority Date:** 

09/24/2017

Date/time Received:

08/30/2017

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

K1708052-06

**Project Name:** 

**TNPR0080** 

Sample Description:

Sampler Project Name:

**TNPR0080** 

Project Site No.:

PEPPE000.7BT

Station No.:

**Date/Time Collected:** 

08/30/2017

Sampler's Name:

10:30 Justin Teague

County:

Blount - 05

Sample Matrix:

EFO:

Knoxville EFO

Sampling Agency:

TDEC-DWR EN00019126

Billing Code: Send Report To:

**Priority Date:** 

09/24/2017

Date/time Received:

**PERFORMING LAB:** 

08/30/2017

Received By:

Ashley Carroll

TDEC-DWR

Vacant lot, Peppermint Hills Rd

TEST: Coliforms by QT

**Knoxville Regional Laboratory** 

METHOD: 9223-B

Agency Invoiced:

External Id #:

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

K1708052-07

**Project Name:** 

**TNPR0080** 

Sample Description:

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 EN00019126

Billing Code: Send Report To:

**Priority Date:** 

09/24/2017

Date/time Received:

08/30/2017

Received By:

Agency Invoiced:

METHOD: 9223-B

External ld #:

Ashley Carroll

TDEC-DWR

80 yds u/s priv. drive off Andy Harris Rd

TEST: Coliforms by QT

**PERFORMING LAB:** 

**Knoxville Regional Laboratory** 

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

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 EN00019126

Billing Code: 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 PERFORMING LAB:

Knoxville Regional Laboratory

METHOD: 9223-B

IOD: 9223-B

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

K1708052-09 **TNPR0080** 

100 yards u/s Unnamed Rd. off Roddy Branch

Rd.

Sample Description:

**Project Name:** 

Sampler Project Name:

**TNPR0080** 

Project Site No.:

RODDY000.6BT

11:07

Station No.:

Date/Time Collected:

08/30/2017

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:

External Id #:

TDEC-DWR

Received By:

METHOD: 9223-B

Ashley Carroll

TEST: Coliforms by QT

**PERFORMING LAB:** 

**Knoxville Regional Laboratory** 

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

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

Sampler's Name:

Justin Teague

11:20

County:

Blount - 05

Sample Matrix:

EFO:

Knoxville EFO

Sampling Agency:

TDEC-DWR EN00019126

Billing Code: Send Report To:

**Priority Date:** 

09/24/2017

Date/time Received:

08/30/2017

Agency Invoiced:

TDEC-DWR

Received By:

METHOD: 9223-B

Ashley Carroll

TEST: Coliforms by QT

PERFORMING LAB: **Knoxville Regional Laboratory** 

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

K1708052-11

**Project Name:** 

Sample Description:

**TNPR0080** 

**TNPR0080** 

Project Site No.:

Sampler Project Name:

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

Received By:

External Id #:

Ashley Carroll

TDEC-DWR

40 yds u/s RR Bridge, Pearly Smith Rd.

TEST: Coliforms by QT

PERFORMING LAB: **Knoxville Regional Laboratory**  METHOD: 9223-B

Agency Invoiced:

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



Inorganic Analysis

K1708052-01-01
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PITNE000.8BT	Sec.		Flow Rate	
o, Remarks			OKP. (mv)	pill
		(NILL)	Turbidity, (NTL)	Dissolved Oxygen, (mg/L)
5. Date cooler scaled		FIELD DETERMINATIONS  Chlorine, residual (mg/L)	FIEL]   Chlorine, n	Conductivity, (µmhos)
4. Cooler sealed by			n water	denotes analyses performed only on water
locked State vehicle				
3. Mode of transportation to lab			No.	residue, total*
			other microscopic	residue, suspended*
2. Other samples collected			bulk asbestos	residue, settleable*
			Ashestos	residue, dissolved*
1. Others present at collection	Other Metals:	Other:		pH
		TCLP	100	nitrogen, nitrite*
Additional Information		Dissolved	TOC*	nitrogen, nitrate*
	hardness, total as CaCO <sub>3</sub> *	Normal	SIII [ide total*	MBAS*
	hardness, Ca as CaCO <sub>3</sub> *	Metals Digestion type:	phenois total	fluoride*
	zinc. Zn		oil and grages	conductivity*
ジン	vanadium, V	A HON	evanide	color
300	thallium, Ti	ATION I	SPECIAL PRESERVATION	chromium, hexavalent
Date Time	strontium, Sr			chloride*
6. Received in Lab by	sodium, Na		100.000	CBOD, 5-day*
Date	Silver, Ag		phosphate total	BOD. 5-dav*
ý	sclenium. Se		nitrogen, total organic	alkalinity as CaCO,*
Date 31 301/7 Time 1159	potassium. K	3	nitrogen, total Kieldah	acidity as CaCO <sub>3</sub> *
4. Received in Lab by +1 Canvil	nickel, Ni		nitrogen, NO, & NO,	Not Preserved
Date Time	mercury. Hg		nitrogen, ammonia	* General Inorganics
ered to	manganese, Mn		COD*	-
Date Time	magnesium, Mg	frient	Preserved, Nutrient	Enterococcus*
3. Received by	lead, Pb		turbidity*	X E Coli*
Date Time	lithium, Li		sulfate*	+
	iron, Fe		silica*	coliform, total*
Date 8 (3011) Time (154	copper, Cu	Other General Inorganics:	ordio-phosphate	coliform, fecal*
2. Received by A. Carro II	cobalt, Co	i	* Gen Ingrangies (co.	* Env. Microbiology
Date 8/30 Time // C	chromium, Cr	BILLING CODE ENU0019126	Yales & C. VonHatten DWR-KERO: Co. C. Dominion	SEND REPORT TO: L. Yales &
Delivered to KPL +17	calcium. Ca			EEI
	cadmium. Cd	\$	FO	SAMPLING AGENCY: DW
1. Collected By Stuly	boron, B	10 A.A. A.B.A.	nted) 7777 MA	SAMPLER'S FULL NAME (printed)
		g e	0 8 A	COLLECTED: DATE
sample set or point (if all collected at the same time)	hervllium Re	Depth:		MALINIA: WHEE
Only one chain of custody form is required per	barium, Ba	TUDE: -83.76829	FORCH ODE:	
Chain of Custody and Supplemental Information	arsenic, As	-		LATITUDE: 35.8   027
0	antimony, Sb		200 yds d/s Ellejoy Road	DESCRIPTION: 200 yds d/s
C: 08/30/2017 ng.40	aluminum, Al	NTY: Bloum - 05	COUNTY:	0.8
	Metals	WATERRODY NAME: Dimar Branch	PITNE000.8BT	BER:
V 1 / 0 8 0 5 2 - 0 1 - 0 1	277			PROJECT NAME: 303(d)
K17000F3 04 04				

STATION NUMBER: PROJECT NAME:

QC FIELDBLANKKEFO



#### FIELD BLANK

Inorganic Analysis

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aluminum, Al Metals

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FIELD BLANK			Flow Rate	
C. Nellidiks			ORP. (mv)	nH
6 Remarks			Turbidity, (NTU)	Temperatura (%C)
	Other Field Parameters.		Chlorine, residual	Directivity, quintos)
5. Date cooler sealed		INATIONS	FIELD DETERMINATIONS	Conductivity
4. Cooler scaled by			vater	* denotes analyses performed only on water
Locked State vehicle				
3. Mode of transportation to lab			,	residue, total*
			other microsconic	residue, suspended*
2. Other samples collected			bulk ashestos	residue, settleable*
i. Cinela present at confection	OMINI PLEMINI			residue, dissolved*
Others assessed at collection	Other Metales	Other:		ntuogen, minte-
Additional Information		TCLP		nitrogen, nitrate*
	naroness, total as CaCO <sub>3</sub> *	Dissolved	TOC*	MBAS*
	hardness, Ca as CaCO <sub>3</sub> *	Normal Normal	sulfide, total*	fluoride*
	zinc, Zn	Vietals Dissession topos	phenois, total	conductivity*
Date 8 (36))   Time 1409	vanadium, V		oil and grease	color
	thallium, TI		cyanide	chromium, hexavalent
Date Time	strontium, Sr		SPECIAL PRESERVATION	chloride*
6. Received in Lab by	sodium, Na			CBOD. 5-day*
Date Time	Silver, Ag		phosphate, total	BOD. 5-day*
5. Received in Lab by	selenium, Se		nitrogen, total organic	alkalinity as CaCO,*
	polassium, K		nitrogen, total Kieldahl	acidity as CaCO <sub>3</sub> *
4. Received in Lab by A Compile	nickel, Ni		nifrogen, NO, & NO,	Not Preserved
Date Time	mercury. Hg		nifrogen ammonia	* General Inorganics
ered to	manganese. Mn		COD*	
Date Time	magnesium, Mg		Processed Visit	Enterococcus*
ved by	lead, Pb		furbidit.	X E. Coli*
Date	lithium, Li		Sillea.	strep, fecal*
			ordio-phosphate	coliform, total*
		Other General Inorganics:	" Gen. Inorganics (con't)	coliform fecal*
	cobalt, Co	0	15	* Fav Microbiology
Date 8 3000 Time 1159	chromium, Cr	CODE EN00019126	BILLING CODE	SEND REPORT TO:
107	calcium, Ca		,	IF PRIORITY DATE VEEDED
TIL	cadmium, Cd		Duter Dact (mg	SAMPLING AGENCY DWB
1. Collected By, D. Our	boron, B	DAHC	1	=
	beryllium, Be		Deptin:	COLLECTED: DATE V
Only one chain of custody form is required per sample set or point (if all collected at the same time)	barium, Ba		PONGIL OPE:	MATRIX: water
Chain of Custody and Supplemental Information	arsenic, As		ONCITUE	LATITUDE:
C: 08/30/2017 09:42	antimony. Sb	510unt -05	COOMIT:	DESCRIPTION:
	aluminum, Al	- I STATE ALL	COLINTY	STREAM MILE:
	Al Al	Y NAME:	TIBLUBLANKKERO WATERBODY NAME:	DE.K.

MATRIX: water

LATITUDE:

35.8000

LONGITUDE:

-83.7730

STREAM MILE: STATION NUMBER:

8.0

ELLEJ008.0BT 303(d)

PROJECT NAME:

DESCRIPTION:

d/s A R Davis Road

COUNTY: Blount - 05

WATERBODY NAME:

Ellejoy Creek

antimony, Sb

aluminum, Al

barium, Ba arsenic, As Metals



Inorganic Analysis

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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) C: 08/30/2017 09:54

**LER'S FULL NAME (printed) ** UNS AGENCY: DWR-KEFO  **LING AGENCY: DWR-KEFO  **IORITY, DATE NEEDED:  **REPORT TO: L. Yalcs & C. VonHatten, DWR-KEFO; cc:  **nv. Microbiology	MATRIX: water	Depth:		bondline D	sample set or point (if all collected at the same time
A	DATE	7	27)	ociymum, be	
BILLING CODE   EN00019126   Calcinnum, Cd   Date   X - 26   Y   Telestrice, DWR-KEFO; cc G. Denton   Calcinnum, Cd   Date   X - 26   Y   Telestrice (cont);   Calcinnum, Cd   Date   X - 27   Telestrice (cont);   Calcinnum, Mg   Date   Calcinnum, Mg   Date   Calcinnum, Mg   Date   Calcinnum, Mg   Date   Telestrice (cont);   Calcinnum, Mg   Date   Telestrice (con);   Calcinnum, Mg   Calcinnum, Mg   Calcinnum, Mg   Calcinnum, Mg   Calcinnum, Mg	SAMPLER'S FULL NAME (pri	VASAI.		boron, B	45
BILLING CODE		FO		cadmium, Cd	5-30-17
Interest   Date   Constitute	IF PRIORITY, DATE NEEDED			calcium, Ca	KR
Charles   Control   Conter General Inorganics:   Copper. Cu   Copper	SEND REPORT TO: L. Yales &			chommun, ci	Date A SOLG
The-phosphale   Copper Cu   Date 24 30   Title	* Env. Microbiology	* Gen. Inorganics (con't)	Other Canadallusses	Copalit, Co	Keccived by 14
Itidace   Iti	coliform, fecal*	ortho-phosphate	omer General Horganics:	copper. Cu	217
Iffidite.*	coliform, total*	silica*		iron, Fc	
Preserved Nutrient   Preserved by	strep, fecal*	sulfate*		lithium, Li	Date
ODS*         magnessum, Mg         Date         T           Irogen, ammonia         managanese, Mn         Delivered to         T           Irogen, NO₂ & NO₂         mercury. Hg         4. Received in Lab by A. Received in Lab by Silver, Ag         5. Received in Lab by Silver, Ag         5. Received in Lab by Silver, Ag         7. The CIAL PRESERVATION         5. Received in Lab by Silver, Ag         7. The Cial Silver, Ag         5. Received in Lab by Silver, Ag         7. The Cial Silver, Ag         5. Received in Lab by Silver, Ag         7. The Cial Silver, Ag         5. Received in Lab by Silver, Ag         7. The Cial Silver, Ag         8. The Cial Silver		turbidity*		lead, Pb	3. Received by
Imagence, Mn   Delivered to trogen, India Rickel, Ni   Indeed to trogen, Iolal Kjeldah    Received in Lab by Indice, Iolal organic   Indice, Iolal o	Enterococcus*	Preserved, Nutrient		magnesium, Mg	
Trogen, NO, & NO				manganese, Mn	Delivered to
Trogen, 10tal Kjeldah    A. Received in Lab by Irogen, 10tal Kjeldah    A. Received in Lab by Irogen, 10tal Kjeldah    S. Received in Lab by Irogen, 10tal organic   Irogen, 10tal by Irogen, 10tal as CaCO₁*   Additional Information   Irogen, 10tal by Irogen, 10tal as CaCO₁*   Irogen, 10tal by Irogen, 10ta		nitrogen, ammonia		mercury, Hg	
Trogen, total Kjeldah    Selenium, No.   S	Not Preserved	nitrogen, NO, & NO,		nickel, N	F
Irogen, total organic   Sclenum, Se   Sceedwed in Lab by sliver, Ag   Date	acidity as CaCO;*	nitrogen, total Kieldahl		potassium, K	Date 8/36/17
Silver, Ag   Date	alkalinity as CaCO <sub>3</sub> *	nitrogen, total organic		sclenium, Se	5. Received in Lab by
PECIAL PRESERVATION  PECIAL PRESERVATION  PECIAL PRESERVATION  PECIAL PRESERVATION  PECIAL PRESERVATION  Metals Digestion type:  Normal  Metals Digestion type:  Normal  Metals Digestion type:  Normal  Normal  Normal  Normal  Nardness, Ca as CaCO <sub>3</sub> *  Additional Information  Other Metals:  1 Other samples collected  Respector  Chlorine, residual (mg/L)  Turbidify, (NTL))  Turbidify, (NTL))  Turbidify, (NTL))  The field Parameters:  6 Received in Lab by Strontium, Na  6 Received in Lab by Strontium, Na  Additional Information  Other Metals:  1 Other samples collected  1 Other samples collected  4 Cooler scaled by  5 Date cooler scaled  6 Received in Lab by  And CW  Additional Information  Source  Chlorine, residual (mg/L)  Turbidify, (NTL))  Turbidify, (NTL))  Turbidify, (NTL))  Turbidify, (NTL)	BOD. 5-dav*	phosphate, total		Silver, Ag	
Strontium, Sr   Date	CBOD, 5-day*			sodium, Na	
Chlorine, residual (mg/L)   Characters:   Contends   Chemarks	chloride*			strontium, Sr	-
Indigenate   Ind	chronium, hexavalent	SPECIAL PRESERVATION		thallium, Tl	1-Cam
and grease  lenols, total  lenols, total as CaCO3*  Additional Information  lenols, total  lenols, total as CaCO3*  Additional Information  lenols, total  lenols, total as CaCO3*  Additional Information  lenols, total  lenols, tota	солог	cvanide		vanadium, V	
lide, total*    Normal   Normal   hardness, Ca as CaCO <sub>3</sub> *	conductivity*	oil and grease	Metals Disaster	zinc, Zn	
Ifide, total*    Dissolved   TCLP   Other:   Other Metals:	fluoride*	phenois, total	Metals Digestion type:	hardness, Ca as CaCO <sub>3</sub> *	
DC*  TCLP  Other:  Other Metals:  R asbestos  R asbestos  FIELD DETERMINATIONS  Chlorine, residual (mg/L)  Turbidity, (NTU)  ORP, (mv)  Flour Para  Teleur Para	MBAS*	sulfide total*	Dissolvad	hardness, total as CaCO,*	
Destos	nitrogen, nitrate*	TOC*	TCLP		Additional Information
Destos    Kasbestos	nitrogen, nitrite*		Other		
bestos	PH		ouel.	Other Metals:	I Others present at collection
Rasbestos  FIELD DETERMINATIONS  Chlorine, residual (mg/L)  Turbidity, (NTU)  ORP, (mv)  Flow Para	residue. dissolved*	Asbestos			
FIELD DETERMINATIONS  Chlorine, residual (mg/L)  Turbidity, (NTU)  ORP, (mv)  Flow Para	residue, settleable*	bulk asbestos			2. Other samples collected
FIELD DETERMINATIONS  Chlorine, residual (mg/L)  Turbidity, (NTU)  ORP, (mv)  Flow Para	residue, suspended*	other microscopic			3 10 10 10 10 10 10 10 10 10 10 10 10 10
FIELD DETERMINATIONS  Chlorine, residual (mg/L)  Turbidity, (NTL))  ORP, (mv)  Flow Para	residue, lotal*				5. Mode of transportation to lab
FIELD DETERMINATIONS  Chlorine, residual (mg/L)  Turbidity, (NTU)  ORP, (mv)					10cked State vehicle
ried Determinations  Chlorine, residual (mg/L)  Solved Oxygen. (mg/L)  Turbidity, (NTU)  Other Field Parameters:  perature. (°C)  ORP. (mv)	* denotes analyses performed only o	on water			4. Cooler scaled by
iductivity, (µmhos)  Chlorine, residual (mg/L)  Solved Oxygen. (mg/L)  Turbidity, (NTU)  Aperature. (°C)  Chlorine, residual (mg/L)  Turbidity, (NTU)  ORP. (mv)		FIELD DETERMIN	NATIONS		5 Date contact and a
perature. (°C)  Flow Para	Conductivity, (µmnos)	Chlorine, residual (mg/L)		aramators:	or Date cooler scaled
operature. (°C)  Flow Para	Dissolved Oxygen, (mg/L)	Turbidity, (NTU)		â â li c c c c c c c c c c c c c c c c c c	
	Temperature, (°C)	URP. (mv)			b. Kemarks
		Flow Rate			

ELLEJ008.0BT

SEND REPORT TO: 1., Yates & C. VonHatten, DWR-KEFO; cc: G. Denton

\*

Gen. Inorganies (con't)

silica\* ortho-phosphate

turbidity\* sulfate\* SAMPLING AGENCY:

DWR-KEFO

Jale Jayne

IF PRIORITY, DATE NEEDED:

SAMPLER'S FULL NAME (printed)

COLLECTED: MIATRIX: water

DATENSO

DESCRIPTION: STREAM MILE: STATION NUMBER: PROJECT NAME:

At Ellejoy Creek Road Crossing

COUNTY

ELLEJ000.1BT 303(d)

LATITUDE:

35.77325

LONGITUDE:



	K1708052-04-01	Inorganic Analysis
--	----------------	--------------------

	* Metals	
	aluminum. Al	
NTY: Blount - 05	antimony, Sb	C: 08/30/2017 10:10 0
ł	arsenic, As	Chain of Custody and Supplemental
TUDE: -83.84909	barium, Ba	Only one chain of custody form is required per sample set or north fif all collected in the control
Depth:	beryllium. Bc	לייים איינה אריות אריות ווווון
TIME /O/O	boron, B	1. Collected By D. Jau
	cadmium, Cd	1
	calcium, Ca	KR
BILLING CODE EN00019126	chromium, Cr	Date 8 30 D Time 11 CO
); cc: G. Denton	cobalt, Co	T C
n't) Other General Inorganics:	ics: copper, Cu	Date 8130/17 Time 1159
	iron, Fe	
	lithium, Li	Date Time
	lead, Pb	wed by
Trion t	magnesium. Mg	Date Time
ACTION CONTRACTOR OF THE PROPERTY OF THE PROPE	manganese, Mn	ered to
	nickel Ni	A Received in Lab by A Lime
	potassium, K	Date & 120117 Time 1156
חו	selenium, Se	
	silver, Ag	Date Time
	sodium, Na	6 Received in Lab by
	strontium, Sr	Date Time
ATION	thallium, Ti	M. Ca
MICA	vanadium. V	Date 3 30 1 Time 1400
Wetals Digestion type:	hardness, Ca as CaCO <sub>3</sub> *	
Normal	hardness, total as CaCO <sub>3</sub> *	
TCLP		Additional Information
Other:	Other Metals:	1. Others present at collection
		2. Other samples collected
		3. Mode of transportation to lab
		locked State vehicle
		4. Cooler sealed by
DETERMINATIONS		5. Date cooler sealed
(mg/L)	Other Field Parameters:	
		6 Remarks
		ELLEJ000.1BT

Temperature (°C) Dissolved Oxygen. (mg/L) Conductivity (jumbos)

Flow Rate ORP, (mv)

Chlorine, residual (mg/L)

FIELD DETERMINATIO

\* denotes analyses performed only on water

residue, total\* residue, suspended\* residue, settleable\* residue, dissolved\*

> other microscopic bulk asbestos Asbestos

PH

nitrogen, nitrite\* nitrogen, nitrate\*

conductivity\*

color

MBAS\* fluoride\*

sulfide, total\*

TOC\*

oil and grease

cyanide

SPECIAL PRESERVATION

phenois, total

chromium, hexavalent

chloride\* CBOD, 5-day\* General Inorganics

strep, fecal\* coliform, total\* coliform, fecal\* Env. Microbiology

Enterococcus\*

acidity as CaCO,\*

Not Preserved

BOD, 5-day\* alkalınıty as CaCO,\*

> nitrogen, total organic nitrogen, total Kjeldahi

nitrogen, NO3 & NO2

nitrogen, ammonia

COD\*

Preserved, Nutrient

phosphate, total

STREAM MILE: DESCRIPTION:

0.7

Vacant lot. Peppermint Hills Rd

COUNTY:

Blount - 05

WATERBODY NAME:

Peppermint Branch

Metals

antimony. Sb aluminum, Al

barium, Ba arsenic, As

LATITUDE:

35.79074

LONGITUDE:

-83.89604

Depth:

TIME 10: 29

STATION NUMBER:

PEPPE000.7BT 303(d)

PROJECT NAME:



TO-CO-25000 / TV	
C. 00000011 LD 00	)

Only one chain of custody form is required per sample set or point (if all collected at the same time	Chain of Custody and Supplemental	111111111111111111111111111111111111111
d per		<

lithium. Li	iron, Fe	copper, Cu	cobalt, Co	chromium, Cr	calcium, Ca	cadmium, Cd	boron, B	beryllium, Be
Date	Delivered to	Date 8/3/17	2. Received by A	Date O MA	Delivered to:	Date & John	1. Collected By	
Time		Time IISO	C IND I	Time 1170	727	Time /o. J.a	Tone o	

SEND REPORT TO: L. Yates & C. VonHatten, DWR-KEFO; cc: G. Denton

IF PRIORITY, DATE NEEDED:

SAMPLING AGENCY:

DWR-KEFO

JUSTIN

1645 Jul

BILLING CODE

EN00019126

SAMPLER'S FULL NAME (printed)

COLLECTED: MATRIX: water

DATE

X-30-

_	-	-	-	4		_	_	_		1			25	1	-	1	_		F		160	51
MBAS*	fluoride*	conductivity	COTOT	on on the savetern	chromium hevavalent	chloride*	CBOD, 5-day*	BOD, 5-day*	alkalinity as CaCO,*	acidity as CaCO,*	Day Laca Li vovi	Not B.	General Inorganics		Enterococcus*	E. CON-		strep, fecal*	coliform, total*	coliform, fecal*	Env. Microbiology	THE RESIDENCE OF THE PROPERTY
Sulficial to to take	phenols, total	oil and grease	cyanide	SPECIAL PRESERVATION	CDECT TOTAL			phosphate, total	nitrogen, total organic	nitrogen, total Kjeldahl	minogen, NO3 & NO2		nitrogen, ammonia	COD*	Preserved, Nutrient	turbidity*	outidic	en fore*	silica*	ortho-phosphate	*   Gen. Inorganics (con't)	or contol
MOILIIGI	Morma Signation Ope.	Metals Direction type:																		Cinci Ocho al Inol gantos.	Other General Ingranies	IIVII
hardness, total as CaCO,*	nardness. La as LaCO;*	bredamer Ca C-CO *	zinc Zn	vanadium V	thallium, Ti	strontium, Sr	sodium, Na	silver, Ag	seienum, se	Distriction 18	potassium K	nickel, Ni	mercury, Hg	manganese, Mili	magicsum, Mg	manariim Ma	lead Ph	lithium, Li	iron, l'e	copper, Cu		coball. Co
			11/	2	-4	Date Time	6. Received in I ab by	Date Time	5. Received in Lab by	1	Dale & Inc.	4. Received in Lab by	Date Time	Delivered 10				Date Time	Delivered to	Date & Soll   Time 1159	H (CIND)	2 Received by A
	7-15.4	phenols, total Normal Normal	* vity* oil and grease Metals Digestion type:  * phenols, total Normal	ivity* cyanide zinc. Zn zinc. Zn zinc. Zn  * phenols. total Normal hardness. Ca as CaCO <sub>3</sub> *  Normal hardness. total as CaCO <sub>3</sub> *	vanadium, V Date 8 3  (vity* oil and grease Metals Digestion type: hardness. Ca as CaCO,*  * phenols, total Normal hardness, total as CaCO,*	m, hexavalent  SPECIAL PRESERVATION  cyanide  vanadium, V  cyanide  vanadium, V  oil and grease  Metals Digestion type:  hardness. Ca as CaCO <sub>3</sub> *  phenols, total  Normal  Normal  hardness. total as CaCO <sub>3</sub> *	m. hexavalent  SPECIAL PRESERVATION  cyanide  virty*  oil and grease  phenols, total  Normal  SPECIAL PRESERVATION  Cyanide  vanadium, V  vanadium, V  vanadium, V  vanadium, V  zinc, Zn  hardness, Ca as CaCO <sub>3</sub> *  hardness, total as CaCO <sub>3</sub> *	S-day*  S-day*  Sodium, Na  6. Received in Lab by  strontium, Sr  Uhallium, Ti  Logged in by A. Qv  vanadium, V  cyanide  vity*  oil and grease  Phenols, total  Normal  Normal  Sodium, Na  Strontium, Sr  Uhallium, Ti  Logged in by A. Qv  vanadium, V  vanadium, V  vanadium, V  vanadium, Na  Strontium, Sr  Uhallium, Ti  Logged in by A. Qv  vanadium, Na  Strontium, Sr  Uhallium, Ti  Logged in by A. Qv  vanadium, Na  Strontium, Sr  Uhallium, Ti  Logged in by A. Qv  vanadium, Na  Strontium, Sr  Uhallium, Ti  Logged in by A. Qv  vanadium, V  vanadium, Sr  Uhallium, Ti  Logged in by A. Qv  vanadium, Sr  uhallium, Ti  Logged in by A. Qv  vanadium, Sr  Uhallium, Ti  Logged in by A. Qv  vanadium, Sr  uhallium, Ti  Logged in by A. Qv  vanadium, Sr  uhallium, Ti  Logged in by A. Qv  vanadium, Sr  uhallium, Ti  Logged in by A. Qv  vanadium, Sr  uhallium, Ti  Logged in by A. Qv  vanadium, Sr  uhallium, Ti  Logged in by A. Qv  vanadium, Sr  uhallium, Ti  Logged in by A. Qv  vanadium, Sr  uhallium, Ti  Logged in by A. Qv  vanadium, V  vanadium, V  Date \$   30   1   1    Normal  Normal  Normal	Clay*   phosphate, total   Silver, Ag   Date	Vas CaCO <sub>3</sub> *   nitrogen, total organic   Scientum, Se	as CaCO <sub>3</sub> * nitrogen, total Kjeldahl Section, Na Sectived in Lab by V as CaCO <sub>3</sub> * nitrogen, total organic Silver, Ag Silver, Ag Silver, Ag Silver, Ag Sodium, Na Sodium, Na Sodium, Na Sectived in Lab by Strontium, Sr Date Silver, Ag Sodium, Na Sectived in Lab by Strontium, Sr Sectived in Lab by St	As CaCO <sub>3</sub> * nitrogen, total Kjeldahl  yas CaCO <sub>3</sub> * nitrogen, total organic  clav*  phosphate, total  selenium, Se silver, Ag sodium, Na sodium, Na sodium, Na sodium, Na sodium, Na sodium, Ti bate  surrogen, total organic  silver, Ag sodium, Na sodium, Na sodium, Ti bate  strontium, Ti cyanide  vanadium, V	Not Preserved     nitrogen, NO <sub>3</sub> & NO <sub>2</sub> 4. Received in Lab by A as CaCO <sub>3</sub> *     4. Received in Lab by A potassium, K     4. Received in Lab by A potassium, K       as CaCO <sub>3</sub> *     nitrogen, total Kjeldahl     selenium, Se     5. Received in Lab by Silver, Ag       yas CaCO <sub>3</sub> *     phosphate, total     silver, Ag     Date       5-day*     phosphate, total     strontium, Na     6. Received in Lab by Strontium, Sr       5-day*     phosphate, total     strontium, Sr     Date       Im, hexavalent     SPECIAL PRESERVATION     unadium, V     vanadium, V       Vity*     oil and grease     Metals Digestion type:     hardness, total as CaCO <sub>3</sub> *       *     phonols, total     Normal     hardness, total as CaCO <sub>3</sub> *	Il Inorganics         nitrogen, ammonia         mercury, Hg         Date           Not Preserved         nitrogen, NO <sub>3</sub> & NO <sub>2</sub> 4. Received in Lab by A potassium, K         4. Received in Lab by A potassium, K           as CaCO <sub>3</sub> *         nitrogen, total organic         potassium, K         Date         5. Received in Lab by Silver, Ag           selenium, Se         silver, Ag         5. Received in Lab by Silver, Ag         Date           5-day*         phosphate, total         strontium, Na         6. Received in Lab by Silver, Ag         Date           selenium, Na         strontium, Sr         Date         Date           strontium, Sr         Logged in by A Qw         A Qw           wanadium, V         vanadium, V         Date S (3017)           vity*         oil and grease         Metals Digestion type:         hardness, total as CaCO <sub>3</sub> *           hardness, total as CaCO <sub>3</sub> *         hardness, total as CaCO <sub>3</sub> *	Il Inorganics   nitrogen, ammonia   nitrogen, ammonia   nitrogen, ammonia   nitrogen, ammonia   nitrogen, total Kjeldahl   nitrogen, total Kjeldahl   nitrogen, total Kjeldahl   nitrogen, total organic   selenium, Se   Secrived in Lab by   S	Preserved, Nutrient   Inaginesium, wg   Date	turbidity*    Preserved, Nutrient   Preserved   Preser	* turbidity* turbidity*   lead, Pb   3. Received by	Sulfate   Success   Sulfate   Success   Success   Sulfate   Success   Sulfate   Success   Sulfate   Success   Sulfate   Success   Sulfate   Success   Success   Sulfate   Success   Succ	m, total* silica*  sulfate* sulfate* sulfate*  * turbidity*  COD* nitrogen, ammonia nitrogen, NO <sub>3</sub> & NO <sub>2</sub> as CaCO <sub>3</sub> * nitrogen, total organic  sulfate*  nitrogen, notal Kjeldahl yas CaCO <sub>3</sub> * nitrogen, total organic nitrogen, total organic oday*  phosphate, total special phosphate, total cyanide  phosphate, total special phosphate, total cyanide  phosphate, total special phosphate, total spec	m. fecal* ortho-phosphate rich, place silica* rich, place weal silica was received by silica was rich, place weal silica was received by magnesium, Mg Date manganese, Mn Date mitrogen, NO, & NO, & NO, and preserved of nitrogen, total Kjeldahl richgen, total richgen, total richgen, total organic silica, richgen, total organic phosphate, total selective distribution, place was richgen, ric	Introbiology   Cen. Inorganics (con't)   Other General Inorganics:   Copper, Cu   Date   Copper, Cu

nenotes
analyses
performed
only
m water

residue, total\* residue, suspended\* residue, settleable\* residue, dissolved\* nitrogen, nitrite\* nitrogen, nitrate\*

> 10C\* sulfide, total\*

Other: TCLP Dissolved

Other Metals:

1. Others present at collection

Other samples collected

Additional Information

3. Mode of transportation to lab

locked State vehicle

Asbestos

other microscopic bulk asbestos

	Temperature, (°C)	Dissolved Oxygen, (mg/L)	Conductivity, (µmhos)	* denotes analyses performed only on water
Flow Rate	ORP. (mv)	Turbidity, (NTLI) Other Field Parameters:	Chlorine residual (mg/l)	
PEPPE000.7BT	6. Remarks		5. Date cooler scaled	4. Cooler sealed by

PROJECT NAME:

DESCRIPTION: STREAM MILE: STATION NUMBER:

Vacant lot, Peppermint Hills Rd

COUNTY:

Blount - 05

WATERBODY NAME:

Peppermint Branch

antimony. Sb aluminum, Al Metals

C: 08/30/2017 10:30

PEPPE000.7BT 303(d)

### FIELD DUPLICATE

Inorganic Analysis

## K1708052-06-01

4. Cooler sealed by 5. Date cooler sealed 6. Remarks PEPPE000.7BT		FIELD DETERMINATIONS  rine, residual (mg/L)  Other Field Parameters: (mv)  Rate	Chic Turk ORF	Conductivity, (µmhos) Dissolved Oxygen, (mg/L) Temperature, (°C)
3. Mode of transportation to lab			other microscopic	residue, total*
2. Other samples collected			Ashestos bulk asbestos	residue, dissolved* residue, settleable*
l Others present at collection	Other Metals:	Other;		pH pH
Additional Information		Dissolved TCLP	TOC*	nitrogen, nitrate*
	hardness. Ca as CaCO <sub>3</sub> *	Normal	phenols, total	lluoride*
	zinc, Zn	Metals Direction tone.	oil and grease	conductivity*
Date 8 36 17 Time 1480		GN .	cvanide	color
in by A. Com	thallium, Tl		SPECIAL PRESERVATI	chromium, hexavalent
Date Time	strontium, Sr			chloride*
6. Received in Lab by	sodium. Na		phosphate, total	CROD S-days
3. Received in Lab by	selenium, Se		nitrogen, total organic	ROD S-dau*
Date 2 30(1)	potassum, z		nitrogen, total Kjeldahl	acidity as CaCO,*
L	nickel, Ni		nitrogen, NO3 & NO2	Not Preserved
1	mercury, Hg		nitrogen, ammonia	* General Inorganics
Delivered to	manganese, Mn	30	COD*	
Date Time	magnesium, Mg		Beauty	
3. Received by	lead, Pb		sulfate*	X E. Coli*
Dalle Time	lithium Li		silica*	colllorm, total*
Date 01/50/17 Time (1/50)	copper, Cu	Cillet General Inorganics:	ortho-phosphate	coliform, fecal*
2. Received by A Came II	cobalt, Co	G. Denion	* Gen. Inorganics (con't)	* Env. Microbiology
Date & SLD Time   FC	chromium, Cr	BILLING CODE EN00019126	SEND REPORT TO: L. Yates & C. VonHatton, DWD VIEW.	SEND REPORT TO: 1 Yates
2	calcium. Ca			F
113	cadmium, Cd	WE	DWR-KEITO SHANTA TOES WE	SAMPLING AGENCY DA
1. Collected By	boron, B	TIME * 10:30	1	SAMPLER'S FILL NAME
	beryllium, Be	Deptil: 3.7		
sample set or point (if all collected at the same time)	Outlant, Dr	1		MATRIX: water
Information Only one chain of custofy form	harium Ra	DE: -83.89604	LONGITUDE:	LATITUDE: 35.79074
Chain of Custody and Supplemental	arsenie, As		77	

\* denotes ar



## Inorganic Analysis

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0	C: 08/30/2017 10:48	
	K1708052-07-01	

BER: WILDW000.1BT  80 yds u/s priv. drive off And 35.81218  DATE \$\frac{\mathbb{S}}{3} \to \cdot				Flow Kate	
BET WATERBODY NAME: Wildwood Branch aluminum, Al antimony, Sb coff Andy Harris Rd antimony, Sb antimony, Sc antimorganics: Concepter, Cu cobalt, Co co				CN. (III)	Ha
RET WATERBODY NAME: Wildwood Branch antimon, Al antimon, Al antimon, Al antimon, Al antimon, Al antimon, Sh antimo				ORP (me)	Temperature, (°C)
BY WATERBODY NAME: Wildoxood Branch antimony, Sly  re off Andy Harris Rd antimony, Sly  born, Be  boron, B.  calcium, Ca  calcium,		arameters:	Other Field P	Turbidity (Alternative)	Dissolved Oxygen. (mg/L)
RY COUNTY: Blownt-05  COUNTY: Blownt-05  COUNTY: Blownt-05  COUNTY: Blownt-05  Antimony, Slb  Antimony, Slb  Antimony, Slb  Arsenic, As  BILLING CODE  BOORN, Ba  Colcium, Ca  calcium, Ca  cal	5. Date cooler scaled			Chlorine, residual (mg/l)	Conductivity, (µmhos)
BIT WATERBODY NAME: Wildowood Branch aluminum, Al aluminum, Aluminum, Al aluminum, Aluminum, Al aluminum, Alumin	7		NATIONS		
MATERIAN NAME   MATERIAN NAME   Wildwood Bearch   Mentis	4. Cooler scaled by			1 water	lenotes analyses performed only or
Mathematical National	locked State vehicle				
Metals   Miller   M	3. Mode of transportation to lab			other illeroscopic	residue, total*
STATICON NUMBER: WILDWOOD, BY   WATERBODY NAME: Wildwood Branch   Metals				Other miserates	residue, suspended*
Metals   Metals   Metals   Metals	2. Other samples collected			bulk acheeroe	residue, settleable*
Metals   Metals   Metals   Metals				Ashestos	residue, dissolved*
WATERBODY NAME:   WILDWOOD, IBT   WATERBODY NAME:   Wildwood Branch   All minum, Al aluminum, Al aluminum, Al aluminum, Al antiropy, Sh	1 Others present at collection	Other Metals:	Omer		Hq
WATERBODY NAME:   Wildwood Branch   Metals			I CLI		nitrogen, nitrite*
STATION NUMBER: WILDWOOGHBY   WATERBODY NAME: Wildwood Branch   Auminum, Al	Additional Information		Dissolved	TOC*	nitrogen, nitrate*
STATION NUMBER: WILDWOOLIBY   WATERBODY NAME: Wildwood Branch   Aluminum, Al	),*	hardness, total as CaCC	Displant	sulfide, total*	MBAS*
WATERBODY NAME:   WILDWOOLBT   WATERBODY NAME:   Wildwood Branch   Amends	*	hardness, Ca as CaCO <sub>3</sub>	iverals Digestion type:	phenois total	fluoride*
STATION NUMBER:   MILDWOOD BT		zinc, Zn	No.	oil and prease	conductivity*
STATION NUMBER: WILDWOOD.BY   WATERBODY NAME: Wildwood Branch   Aluminum, Al aluminum, A	Time (C	vanadium, V		cvanide	color
STATION NUMBER: WILDWOOD, BY WATERBODY NAME: Wildwood Branch STREAM MILE: 0.1  COUNTY: Blown - 0.5  Blown - 0.5  ATITUDE: 35.81218  LONGITUDE: -83.88255  BODLECTED: DATE 8 - 30 - 17  AMPLING AGENCY: DWR-KEFO, ee: G. Denton  coliform, lotal* silica*  BILLING CODE ENVORONS ENGAGE  COLOR. Microbiology * Gen. Inorganics (con't) coliform, lotal*  STREAM MILE: 0.1  Concral Inorganics Infragen. total Colors infragen. total Colors. Not Preserved. Nutrient  CROD. 5-day*  CROD. 5-day*  CROD. 5-day*  CROD. 10	6	lhallum, II		SPECIAL PRESERVATION	chromium, hexavalent
Wildwood Branch   Wildwood Branch   Wildwood Branch   Amnum. Al aluminum. Al aluminum. Al antimony. Sb		strontium, Sr			chloride*
* Metals   Metals   * Metals   Metals   * Metals   Metals   * Metals   Me	o. Received in Lab by	Southin, tva			CBOD. 3-day
* Metals   Metals   * Metals   * Metals   * Metals   * Metals   * Metals   Metals   * Metals   * Metals   * Metals   * Metals   * Metals   Metals   * Metals   * Metals   * Metals   * Metals   * Metals   Metals   * Metals   Met	Date	sodium No		phosphate, total	BOD. 3-day
Water   North   State   Stat	Accelved in Lab by	selvar Ao		nitrogen, total organic	alkalinity as CaCO <sub>3</sub> *
WATERBODY NAME: Wildwood Branch   Wildwood Branch   Aluminum, Al	613011 mile (18	calaniim Ca		nitrogen, total Kjeldahl	acidity as CaCO.*
** Metals   ** M	1 CAND	polassium K		nitrogen, NO <sub>3</sub> & NO <sub>2</sub>	Not Preserved
WILDWOOLBT   WATERBODY NAME: Wildwood Branch   Audininum, Al	١.	nickel Ni		nitrogen, ammonia	General inorganics
* Metals	eled to	mercury Ha			
Metals   Metals   Material   Ma		magnesium, Mg		Preserved, Nutrient	Enterococcus*
STATION NUMBER: WILDW000/BT  WATERBODY NAME: Wildwood Branch  STREAM MILE: 0.1  COUNTY: Blownt - 05  Blownt - 05  Blownt - 05  Brinn, Al  aluminum, Al  aluminum, Al  antimony, Sb  arsenic, As  ANTITUDE: 35.81218  LONGITUDE: -83.88255  Bepth:  COLLECTED: DATE 8-30~/7  AMPLER'S FULL NAME (printed)  AMPLING AGENCY: DWR-KEFO: cc: G. Denton  Env. Microbiology  * Gen. Inorganics (con't)  Colliform, total*  Stifen, fecal*  Wildwood Branch  Aluminum, Al  antimony, Sb  arsenic, As  arsenic, As  beryllium, Be  boron, B  codmium, Cd  calcium, Ca  calcium, Ca  coloalt, Co  copper, Cu  iron, Fe  lichum, Li  lich		lead, Pb		turbidity*	+
TATION NUMBER: WILDW000,1BT WATERBODY NAME: Wildwood Branch PESCRIPTION: 80 yds u/s priv. drive off Andy Harris Rd  ATITUDE: 35.81218  LONGITUDE: -83.88255  LONGITUDE: -83.88255  COLLECTED: DATE 8-30~/7  MPLECTED: DATE 8-30~/7  MPLING AGENCY: DWR-KEFO PRIORITY, DATE NEEDED: Coliform, fecal*  Coliform, fecal*  Coliform, fecal*  WATERBODY NAME: Wildwood Branch  # Metals  Alluminum, Al  antimony. Sb  arsenic, As  arsenic, As  barium, Ba  beryllium, Be  beryllium, Be  cadmium, Cd  cadmium, Cd  cadmium, Cd  cobalt, Co  copper, Cu  iron, Fe  iron		Innum, Li		sulfate*	1
Metals	Delivered to	iron, Fe		silica*	coliform, total*
TATION NUMBER: WILDWOOD, IBT WATERBODY NAME: Wildwood Branch aluminum, AI  ESCRIPTION: 80 yds u/s priv. drive off Andy Harris Rd  ATITUDE: 35.81218 LONGITUDE: -83.88255  ATITUDE: 35.81218 LONGITUDE: -83.88255  ATITUDE: DATE \$\frac{\mathcal{G}}{2} - \frac{\mathcal{G}}{2}	)//) Time /	copper, Cu	Onici Ochici ai Inol games:	ortho-phosphate	coliform, fecal*
WILDW000/1BT WATERBODY NAME: Wildwood Branch 0.1 COUNTY: Blount - 05  80 yds u/s priv. drive off Andy Harris Rd  1 LONGITUDE: -83.88255  Depth: barium, Ba  Depth: barium, Ba  DATE 8-30-/7 V: DWR-KEFO: cc: G Denton  L. Yates & C. VonHatten, DWR-KEFO: cc: G Denton  L. Yates & C. VonHatten, DWR-KEFO: cc: G Denton  WATERBODY NAME: Wildwood Branch aluminum, Al antimony, Sh arsenic, As barium, Ba beryllium, Be boron, B cadmium, Cd calcium, Ca calcium, Ca chromium, Cr	Received by A	copait, Co	Other Canaral Income	* Gen. Inorganics (con't)	Env. Microbiology
WILDW000/1BT WATERBODY NAME: Wildwood Branch  COUNTY: Blount - 05  80 yds u/s priv. drive off Andy Harris Rd  COUNTY: Blount - 05  ENGRET BODY NAME: Wildwood Branch aluminum, Al antimony. Sb arsenie, As arsenie, As barium, Ba beryllium, Be boron, B Cadenium, Cd Calcium, Ca Calcium,	FINANDO F	contribution C		C. VonHauen, DWR-KEFO; cc; G. Denton	Ŀ
WILDWOOD, IBT  WATERBODY NAME: Wildwood Branch  COUNTY: Blount - 05  yds u/s priv. drive off Andy Harris Rd  ENGITUDE: -83.88255  Depth: barium, Ba  ME (printed) Dale Jayras  ME (printed) Dale Jayras  WATERBODY NAME: Wildwood Branch aluminum, Al aluminum, Al antimony, Sh arsenic, As barium, Ba  beryllium, Be boron, B  Calcium, Cd  Calcium, C	KKL	chromium Cr			Z
WILDWOOD, IBT  WATERBODY NAME: Wildwood Branch  COUNTY: Blount - 05  yds u/s priv. drive off Andy Harris Rd  LONGITUDE: -83.88255  Depth: barium, Ba  BE (printed) Dale Joyna Cd  COUNTY: Blount - 05  Wildwood Branch aluminum, Al antimony, Sh arium, Ba  barium, Ba  beryllium, Be  boron, B  cadmium, Cd	11 10 9	calcium Ca		-KEFO	
WATERBODY NAME: Wildwood Branch aluminum, Al aluminum, Al antimony, Shrive off Andy Harris Rd  LONGITUDE: -83.88255  Depth: beryllium, Be boron, B	Cayn,	cadmium, Cd		1)9/6	N. F.
BER: WILDW000, IBT WATERBODY NAME: Wildwood Branch aluminum, Al 20, 11 COUNTY: Blount - 05 80 yds u/s priv. drive off Andy Harris Rd ansenic, As 35.81218 LONGITUDE: -83.88255 barium, Ba  Depth: Wildwood Branch aluminum, Al 21 antimony, Sb arium, Ba	1 Collected By	boron, B	:48	JO-/	AMPIED'S EILI MATE
BER: WILDW000, IBT WATERBODY NAME: Wildwood Branch aluminum, Al 20, II COUNTY: Blount - 05 80 yds u/s priv. drive off Andy Harris Rd ansenic, As 35.81218 LONGITUDE: -83.88255 Berium, Ba		beryllium, Be		3	ייי ליני
UMBER: WILDW000.1BT WATERBODY NAME: Wildwood Branch aluminum, Al C: 0830/2017 10.48  ON: 80 yds u/s priv. drive off Andy Harris Rd  LONGITUDE: -83.88255 Waterbook arium, Ba Only one chain of restablishments.	sample set or point (i) all collected at the same ti			Depth:	MATRIX: water
(UMBER: WILDW000.1BT WATERBODY NAME: Wildwood Branch * Metals   ILE: 0.1 COUNTY: Blount - 05 antimony, Sb C:0830/2017 10.48   ON: 80 yds u/s priv. drive off Andy Harris Rd arscnic, As C:0830/2017 10.48	Only one chain of castody form is required	barium. Ba	8255	-	
3ER: WILDW000.1BT WATERBODY NAME: Wildwood Branch aluminum, Al COUNTY: Blount - 05  80 wis users Advisored Advisored Antimony, Sb  C: 08/30/2017 10/48	Chain of custody and supplemental	arsenic, As		ik, drive off Andy Harris Rd	
SER: WILDW000.1BT WATERBODY NAME: Wildwood Branch aluminum, Al		antimony, Sb		TY:	-
Wit Divoso the Metals		aluminum, Al			O.
	VI/08027-07-01				

WILDW000.1BT

STREAM MILE: STATION NUMBER:

PROJECT NAME:

DESCRIPTION:

Andy Harris Road Bridge

COUNTY:

Blount - 05

WATERBODY NAME:

Za

NAILS000 7BT 303(d)

LATITUDE:

35.81360

LONGITUDE: -83.88261

Depth:

TIME /0: 48

SEND REPORT TO: L. Yates & C. VonHatten, DWR-KEFO; cc: G. Denton

Gen. Inorganies (con't)

Other Gen

SAMPLER'S FULL NAME (printed) JUSTIA

DWR-KEPO

league

BILLING CODE

DATE

8-30-17

SAMPLING AGENCY:

COLLECTED: MATRIX: water

IF PRIORITY, DATE NEEDED:

Env. Microbiology

strep, fecal\* coliform, total\* coliform, fecal\*

Enterococcus\*



### Inorganic Analysis

#### K1708052-08-01

ils Creek	* Metals aluminum, Al antimony Sh	C: 08/30/2017 10/48
	arsenic, As	Chain of Custody and Supplemental Information
	barium, Ba	Only one chain of custody form is required per sample set or point (if all collected at the same time)
	beryllium, Bc	beautiful an experience at the state (title)
	boron, B	1
	cadmium, Cd	. 8
	calcium. Ca	21
V00019126	chromium. Cr	57
	cobalt, Co	3
eral Inorganics:	соррег, Си	0/1
	iron, Fe	to
	lithium, Li	Date Time
	lead, Pb	3. Received by
	magnesium, Mg	Date Time
	manganese, Mn	ered to
	mercury, Hg	Date Page 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
	potassium, K	Date & Dr. 117 Time 1186
	selenium. Se	ab by
	silver. Ag	Date Time
	sodium. Na	ived in Lab by
	strontium, Sr	Date Time
	thallium, Tl	by A Q v
	vanadium, V	
	zinc, Zn	
estion type:	hardness, Ca as CaCO,*	
	hardness, total as CaCO <sub>3</sub> *	
		Additional Information
	Other Metals:	1. Others present at collection
		2. Other samples collected
		3 Mode of temperature to lat
	٠	locked State vehicle
		4. Cooler sealed by
\		S. Date cooler sealed
Other Field	Other Field Parameters:	
		6, Remarks
		NAII SOOO 7RT
		18/11/2000

\* denotes analyses performed only on water

residue, suspended\* residue, settleable\* residue, dissolved\*

other microscopic

Asbestos bulk asbestos

nitrogen, nitrite\* nitrogen, nitrate\* MBAS\*

> TOC\* sulfide, total\* phenois, total oil and grease cyanide

Other

TCLP Dissolved

Normal Metals Dig chromium, hexavalent

SPECIAL PRESERVATION

chloride\* CBOD, 5-day\* BOD, 5-day\* General Inorganics

Not Preserved

alkalının as CaCO.\* acidity as CaCO,\*

> nitrogen, total Kjeldahl nitrogen, NO3 & NO2

nitrogen, aminonia

COD\* turbidity\* sulfate\* silica\* ortho-phosphate

Preserved, Nutrient

phosphate, total nitrogen, total organic

fluoride\* conductivity\* color

residue, total\*

Dissolved Oxygen. (mg/L Temperature, ("C)

ORP. (mv) Flow Rate

Chlorine, residual (mg/L

FIELD DETERMINATIONS

Conductivity, (µmhos)

MATRIX: water

LATITUDE:

35.85472

LONGITUDE:

-83.92823

DESCRIPTION:

100 yards u/s Unnamed Rd. off Roddy Branch Rd.

COUNTY: Blount - 05

WATERBODY NAME:

Roddy Branch

Metals

antimony, Sb arsenic, As

aluminum, Al

STATION NUMBER: 0.0 PROJECT NAME:

> RODDY000,6BT 303(d)



### Inorganic Analysis

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280
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=	-
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C; 08/30/2017 11:07

Chain of Custody and Supplemental Information

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

barium, Ba

	Depth:	7.0	hervllium Ro	and the series form in an confected at the same time!
COLLECTED: DATE	10-17	7.07	portain po	
SAMPLER'S FULL NAME (printed)	JUSTIM TOWN	c	cadmium Cd	SMI
된			calcium, Ca	Delivered to, 120
SEND REPORT TO: L. Yales & C.	VonHatten DWD_KEEO. Co.	BILLING CODE EN00019126	chromium, Cr	
* Env. Microbiology			cobalt, Co	SMI
coliform, fecal*	- 10	Other General Inorganics:	copper, Cu	-,
coliform, total*	silica*		iron, Fe	
strep, fecal*	SIII fate*		lithium, Li	Date Time
X E. Coli*	turbidity*		lead, Pb	3. Received by
Enterococcus*	Preserved Nutrient		magnesium, Mg	Date Time
	COD*		manganese, Mn	Delivered to
* General Inorganics	nitrogen, ammonia		mercury. Hg	Date Time
Not Preserved	nitrogen, NO <sub>1</sub> & NO <sub>2</sub>		nickel, Ni	4. Received in Lab by 14 (Q) 1011
acidity as CaCO <sub>3</sub> *	nitrogen total Kieldahl		polassium, K	Date \$ 36/17 Time 1159
alkalinity as CaCO,*	nitrogen, total organic		sclenium, Sc	
BOD, 5-day*	phosphate total		silver, Ag	Date Time
CBOD, 5-day*	The state of the s		sodium, Na	6. Received in Lab by
chloride*			strontium, Sr	Date O Time
chromium, hexavalent	SPECIAL PRESERVATION		thallium, Ti	Logged in by 8 3 A Commit
соІог	cyanide		vanadium, V	Date 8 30 17 Time 1409
conductivity*	oil and grease	Motols Disease	zınc, Zn	
fluoride*	phenois, total	Metals Digestion type:	hardness, Ca as CaCO <sub>3</sub> *	
MBAS*	sulfide_total*	ROHA	hardness, total as CaCO3*	
nitrogen, nitrate*	TOC*	DISSOIVED		Additional Information
nitrogen, nitrite*		1017		
pH		Other:	Other Metals:	1. Others present at collection
residue, dissolved*	Asbestos			
residue, settleable*	bulk asbestos			2. Other samples collected
residue, suspended*	other microscopic			
residue, total*				3. Mode of transportation to lab
				locked State vehicle
* denotes analyses performed only on water	n water			4. Cooler scaled by
Conductivity (umbos)	FIELD DETERMINATIONS	IINATIONS		5. Date confer sealed
Dissolved Oxygen, (mg/L)	Chlorine, residual (med.	Other Field Parameters:	Parameters:	
Temperature, (°C)	ORP. (mv)			6. Remarks
L H	Flow Rate			Ponnyago (pr
				KODDY000.6BT

SAMPLING AGENCY:

Env. Microbiology

coliform, total\* strep, fecal\*

coliform, fecal\*

COLLECTED: MATRIX: water

DATE

LATITUDE: DESCRIPTION: STREAM MILE: STATION NUMBER: PROJECT NAME:

35.8175

LONGITUDE:

-83,9434

100 yards u/s Singleton Road (Williams Mill Rd.)

COUNTY:

Blount - 05

WATERBODY NAME:

Pistol Creek

antimony, Sb aluminum, Al Metals

barium, Ba arsenic, As

Information

PISTO000.2BT 303(d)



#### Inorganic Analysis K1708053 1

10-01-75080/15	
DR/20/2017 14:50	>

Chain of Custody and Supplemental C: 08 C

\* denotes analyses performed only on water SEND REPORT TO: L. Yales & C. VonHatten, DWR-KEFO; ec: G. Denton SAMPLER'S FULL NAME (printed) IF PRIORITY, DATE NEEDED: DWR-KEFO X-30-× other microscopic bulk asbestos Asbestos sulfide, total\* oil and grease phenois, total TOC\* cyanide SPECIAL PRESERVATION nitrogen, total organic Gen. Inorganies (con't) nitrogen, total Kjeldahl nitrogen, NO3 & NO2 silica\* ortho-phosphate phosphate, total sulfate\* nifrogen, ammonia COD\* turbidity\* Justin Teague Preserved, Nutrient ORF. (mv) Chlorine, residual (mg/L Turbidity, (NTL) Flow Rate FIELD DETERMINATIONS BILLING CODE Depth: TIME //: 30 Normal Other: Metals Digestion type: Dissolved Other General Inorganics: TCLP EN00019126 Other Field Parameters: Other Metals: hardness, total as CaCO,\* zinc, Zn vanadium, thallium, TI strontium, Sr silver, Ag nickel, Ni iron, Fe sodium, Na hardness, Ca as CaCO<sub>3</sub>\* selcnium, Se potassium. K mercury, Hg manganese, Mn lead, Pb chromium, Cr magnesium, copper, Cu cadmium, Cd lithium, Li cobalt, Co calcium, Ca boron, B beryllium, Be Mg Date St 2017
2. Received by Co Mode of transportation to lab Remarks 4. Cooler sealed by locked State vehicle 2. Other samples collected Others present at collection 6. Received in Lab by 4. Received in Lab by 3. Received by Logged in by 5. Received in Lab by Additional Information Only one chain of custody form is required per sample set or point (if all collected at the same time) Date cooler sealed Date 3130/17 Date Delivered to Date Date 7 Date Delivered to Date 3 136117 Delivered to: Collected By Date 8-30-17 8 (COMP) JUSTIA (anol Ī Campli Time Time Time lime BSII aun Time Time 11me //:30 lime ine 148 SS lease

Dissolved Oxygen. (mg/L) Conductivity, (µmhos)

emperature, (°C)

residue, suspended\*

residue, scitleable\*

residue, dissolved\*

residue, total\*

nitrogen, nitrite\*

nitrogen, nitrate\* MBAS\* conductivity\* color

fluoride\*

chromium, hexavalent

chloride\* CBOD, 5-day\*

alkalinity as CaCO,\* BOD, 5-day\*

acidity as CaCO.

Not Preserved

General Inorganics

Enterococcus\*

PISTO000.2BT

### PLEASE PRINT LEGIBLY State of Tennessee - Environmental Laboratories

STREAM MILE: STATION NUMBER:

0

POLECOOLOB1 303(d)

40 yds u/s RR Bridge, Pearly Smith Rd.

COUNTY:

Blount - 05

WATERBODY NAME:

Polecat Creek

aluminum, Al

Metals

PROJECT NAME:

LATITUDE: DESCRIPTION:

35.84909

LONGITUDE:

-83.98046

Depth: TIME ISY

SEND REPORT TO: L. Yates & C. VonHatten, DWR-KEPO; cc: G. Denton

BILLING CODE

EN00019126

Gen. Inorganics (con't)

Other General Inorganics:

tron, Fe

ortho-phosphate

Silica\* sulfate\*

SAMPLING AGENCY:

DWR-KEFO

E Lay

IF PRIORITY, DATE NEEDED:

Env. Microbiology

strep, fecal\* coliform, total\* coliform, fecal\*

Enterococcus\*

SAMPLER'S FULL NAME (printed)

COLLECTED: MATRIX: water

DATE STAN



Inorganic Analysis

## K1708052-11-01

Other Metals: hardness, total as CaCO3\* hardness, Ca as CaCO3\* vanadium, V thallium, TI strontium, Sr silver, Ag selenium. Se sodium, Na potassium, K lead, Pb nickel, Ni mercury, Hg manganese, Mn magnesium, Mg copper, Cu calcium, Ca lithium, Li cobalt, Co chromium, Cr cadmium, Cd horon, B beryllium, Be antimony, Sb arsenic, As barium, Ba 4. Cooler sealed by 3. Mode of transportation to lab 6. Remarks locked State vehicle 2. Other samples collected Others present at collection 6. Received in Lab by Additional Information 4. Received in Lab by [-] Logged in by 1 5. Received in Lab by 3. Received by 2. Received by A. Carroll Date cooler sealed Only one chain of custody form is required per sample set or point (if all collected at the same time) Chain of Custody and Supplemental Information Date Date 1. Collected By Dak Day 2 C: 08/30/2017 11:34 Date 3/30/17 Date Date Date 3 30 17 Date Delivered to Date 3 30 11 Delivered to: Delivered to Dale 8/501 Date 8/30/7 Ca mori Time 1400 Time Time Time 115 GM 1 ume Hine Time Time ( SG lime lime 113Y 0

\* denotes analyses performed only on water

residue, settleable\*

residue, dissolved\*

nitrogen, nitrite\* nitrogen, nitrate\*

MBAS\* fluoride\* conductivity\* color

phenols, total sulfide, total\*

oil and grease cyanide

Metals Digestion type:

zinc, Zn

SPECIAL PRESERVATION

nitrogen, total organic nitrogen, total Kjeldahl nitrogen, NO, & NO, nitrogen, ammonia

phosphate, total

TOC\*

Other: TCLP

Dissolved Normal chromium, hexavalent

chloride\* CBOD, 5-day\* BOD, 5-day\* alkalimity as CaCO3\* acidity as CaCO,

General Inorganics

COD\*

Preserved, Nutrient

turbidity\*

Not Preserved

residue, suspended\*

other microscopic

bulk asbestos Asbestos

Dissolved Oxygen, (mg/L)

Conductivity, (umhos)

emperature, (°C)

ORP. (mv)

Chlorine, residual (mg/L) Turbidity, (NTU)

Other Field Parameters:

POLECOOLOBT

FIELD DETERMINATIONS