



RECEIVED

FEB 13 2009

ENVIRONMENTAL FIELD OFFICE
COLUMBIA

STATE OF TENNESSEE
DEPARTMENT OF HEALTH
ENVIRONMENTAL LABORATORIES

TDH: Lab Services JRL
Lab Services - Jackson Regional Lab
Jackson, TN 38301
731-426-0686

TDH: Lab Services KRL
Lab Services - Knoxville Regional Lab
Knoxville, TN 37920
865-549-5201

TDH: Lab Services NCL
Lab Services - Nashville Central Lab
Nashville, TN 37243
615-262-6300

Sent To: Ryan Owens
TDEC-WPC
Columbia Field Office
2484 Park Plus Drive
Columbia, TN 38401

Lab ID: N00004136
Nashville Central Laboratory

Sampling Agency: TDEC: Division of Water Pollution Control

Billing Code: 327.34-20

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

Paul Reynolds

Analytical Supervisor

Lab-Sample Number: N00004136001
Project Name:
Sample Description: WAYNESBORO STP OUTFALL TO GREEN RI
Sampler Project Name: WAYNESBORO STP
Project Site No.:
Station No.: 1
Date/Time Collected: 02/10/2009 12:05
Sampler's Name: RYAN OWENS
County: WAYNE - 91
Sample Matrix: Water
EFO: Columbia
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 02/10/2009 15:05
Received By: P D Wilson

Field Determinations
pH:
Chlorine, residual:
Conductivity:
Temperature:
Dissolved Oxygen:
Other:
Flow: CFS

TEST: Escherichia Coli		METHOD:			
ANALYTE	RESULT	UNITS	ANALYZED BY:	DATE	
Method Citation	SM 9223B		C Davis	2/10/2009	
E. Coli Result	< 1.0	CFU/100ml	C Davis	2/10/2009	



PRIORITY

Inorganic Analysis

PROJECT/SITE NO	PROJECT NAME	STATION NUMBER	COUNTY
1	Wauhatchie STP	1	Wayne
DESCRIPTION	DEPTH	COLLECTED, DATE	MATRIX
Wauhatchie STP Outlet to Green River	5.0 feet	2-10-09	Water
SAMPLER'S NAME (printed)	BILLING CODE	SEND REPORT TO:	
W. B. Williams	3522 24-20	Regional Office	
CONTACT HAZARD			
Env. Microbiology			
coliform, fecal*	acidity as CaCO ₃ *	oil and grease	Gen. Inorganics (cont'd)
coliform, total*	alkalinity as CaCO ₃ *	orthophosphate, total*	
step, fecal*	alkalinity, phen. as CaCO ₃ *	oxygen, dissolved*	
E. Coli*	BOD, 5-day*	pH	
Enterococcus*	CBOD, 5-day*	phenols, total	
	boron	phosphate, total	
Ambient Parameters	chloride*	residue, dissolved*	
COD*	chlorine, residual*	residue, settleable*	
coliform, fecal	chromium, hexavalent	residue, suspended*	
conductivity*	COD*	residue, total*	
hardness, total as CaCO ₃ *	color, apparent*	silica*	
nitrogen, ammonia	color, true*	sulfate*	
nitrogen, NO ₃ & NO ₂	conductivity*	sulfide, total*	
nitrogen, total Kjeldahl	cyanide	TOC*	
phosphate, total	flash point*	turbidity*	
pH	fluoride*	percent solids	
residue, dissolved*	hardness, Ca as CaCO ₃ *	Asbestos	
residue, suspended*	hardness, total as CaCO ₃ *	bulk asbestos	
arsenic, As	hydrocarbons, total	other microscopic	
cadmium, Cd	MBAS*	Other	
chromium, Cr	nitrogen, ammonia		
copper, Cu	nitrogen, nitrate*		
lead, Pb	nitrogen, nitrite*		
mercury, Hg	nitrogen, NO ₃ & NO ₂		
nickel, Ni	nitrogen, total Kjeldahl		
zinc, Zn	nitrogen, total organic		

* denotes analyses performed only on water

FIELD DETERMINATIONS	
pH	Temperature
Conductivity	Chlorine, residual
Dissolved Oxygen	Other

Laboratory Number **N00004136-001**

Branch Lab Number

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

1. Collected by **Pamela Wilson**

Date **2-10-09** Time **1205**

Delivered to **Andy Abernathy**

Date **2-10-09** Time **1358**

2. Received by **Andy Abernathy**

Date **2-10-09** Time **1358**

Delivered to **Leb**

Date **2-10-09** Time **1505**

3. Received by

Date

Delivered to

Date

4. Received in Lab by **Pamela Wilson**

Date **2-10-09** Time **1505**

Logged in by **Pamela Wilson**

Date **2-10-09** Time **1510**

Additional Information

1. Approximate volume of sample

2. Nearest town or city

3. Others present at collection

4. Number of other samples collected at same time at this point

5. Field collection procedure, handling and/or preservation of this sample

6. Mode of transportation to lab

7. Sample sealed by

8. Date sample sealed

9. Remarks



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Analytical Supervisor

Lab-Sample Number: N00004136001
Project Name:
Sample Description: WAYNESBORO STP OUTFALL TO GREEN RI
Sampler Project Name: WAYNESBORO STP
Project Site No.:
Station No.: 1
Date/Time Collected: 02/10/2009 12:05
Sampler's Name: RYAN OWENS
County: WAYNE - 91
Sample Matrix: Water
EFO: Columbia
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 02/10/2009 15:05
Received By: P D Wilson

Field Determinations
pH:
Chlorine, residual:
Conductivity:
Temperature:
Dissolved Oxygen:
Other:
Flow: CFS

TEST: Ammonia		METHOD: EPA 350.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Ammonia	0.057J	mg/L	0.028	0.10	M Chen	2/11/2009

TEST: Nitrate by IC		METHOD: EPA 300.0				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Nitrate by IC	6.4	mg/L	0.1440	1.000	P Leathers	2/11/2009

TEST: Nitrite by IC		METHOD: EPA 300.0				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Nitrite by IC	0.019J	mg/L	0.0051	0.050	P Leathers	2/11/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	<0.1	ml/L	0.10	0.10	P Leathers	2/11/2009

TEST: Total Kjeldahl Nitrogen		METHOD: EPA 351.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
TKN	0.78	mg/L	0.14	0.50	L Satterwhite	2/12/2009

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected



PRIORITY

Inorganic Analysis

PROJECT/SITE NO.	PROJECT NAME	COUNTY	STP
STATION NUMBER 1	Waynesboro STP	Wayne	Waynesboro STP
DESCRIPTION	Waynesboro STP Outfall to Green River		
STREAM MILE 0.5	DEPTH Surface	MATRIX 10.6L	
COLLECTED: DATE 2-10-09	TIME 1205		
SAMPLER'S NAME (printed) Ryan Owens	BILLING CODE 337, 24-20		
IF PRIORITY, DATE NEEDED ASAP			
SEND REPORT TO: Ryan Owens	Waynesboro Field Office		
CONTACT HAZARD			
<input checked="" type="checkbox"/> Env. Microbiology	<input checked="" type="checkbox"/> General Inorganics	<input type="checkbox"/> Gen. Inorganics (cont)	<input type="checkbox"/> Metals
coliform, fecal*	acidity as CaCO ₃ *	oil and grease	aluminum, Al
coliform, total*	alkalinity as CaCO ₃ *	orthophosphate, total*	antimony, Sb
strep, fecal*	alkalinity, phen. as CaCO ₃ *	oxygen, dissolved*	arsenic, As
<input checked="" type="checkbox"/> E. Coli*	BOD, 5-day*	pH	barium, Ba
Enterococcus*	CBOD, 5-day*	phenols, total	beryllium, Be
	boron	phosphate, total	cadmium, Cd
	chloride*	residue, dissolved*	calcium, Ca
	chlorine, residual*	residue, settleable*	chromium, Cr
<input checked="" type="checkbox"/> Ambient Parameters	chromium, hexavalent	residue, suspended*	cobalt, Co
COD*	COD*	silica*	copper, Cu
coliform, fecal	color, apparent*	sulfate*	iron, Fe
conductivity*	color, true*	sulfide, total*	lead, Pb
hardness, total as CaCO ₃ *	conductivity*	TOC*	magnesium, Mg
nitrogen, ammonia	cyanide	turbidity*	manganese, Mn
nitrogen, NO ₃ & NO ₂	flash point*	percent solids	mercury, Hg
nitrogen, total Kjeldahl	fluoride*	Asbestos	nickel, Ni
phosphate, total	hardness, Ca as CaCO ₃ *	bulk asbestos	potassium, K
pH	hardness, total as CaCO ₃ *	other microscopic	selenium, Se
residue, dissolved*	hydrocarbons, total	MBSA*	silver, Ag
residue, suspended*	MBSA*	Other	
arsenic, As	chromium, Cr	lead, Pb	
cadmium, Cd	chromium, Cr	mercury, Hg	
chromium, Cr	copper, Cu	nickel, Ni	
lead, Pb	lead, Pb	mercury, Hg	
mercury, Hg	nickel, Ni	nickel, Ni	
nickel, Ni	zinc, Zn	selenium, Se	
zinc, Zn		silver, Ag	

* denotes analyses performed only on water

Laboratory Number	No 0004136-001
Branch Lab Number	
Chain of Custody and Supplemental Information	Only one chain of custody form is required per sample set or point (if all collected at the same time)
1. Collected by	Ryan Owens
Date	2-10-09 Time 1205
Delivered to	Andy Abernathy
Date	2-10-09 Time 1358
2. Received by	Andy Abernathy
Date	2-10-09 Time 1358
Delivered to	Lab
Date	2-10-09 Time 1505
3. Received by	
Date	
Delivered to	
Date	
4. Received in Lab by	Pamela Wilson
Date	2-10-09 Time 1505
Logged in by	Pamela Wilson
Date	2-10-09 Time 1510
Additional Information	
1. Approximate volume of sample	
2. Nearest town or city	
3. Others present at collection	
4. Number of other samples collected at same time at this point	
5. Field collection procedure, handling and/or preservation of this sample	
6. Mode of transportation to lab	
7. Sample sealed by	
8. Date sample sealed	
9. Remarks	

