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FEB 26 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:** N00004168  
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.

Analytical Supervisor

**Lab-Sample Number:** N00004168001  
**Project Name:**  
**Sample Description:** EFFLUENT WEIR  
**Sampler Project Name:** WAYNESBORO STP  
**Project Site No.:**  
**Station No.:**  
**Date/Time Collected:** 02/18/2009 10:10  
**Sampler's Name:** DEWITT LOGSDON  
**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:** 02/25/2009  
**Date/Time Received:** 02/18/2009 12:55  
**Received By:** P D Wilson

**Field Determinations**  
**pH:** 4.59 pH Units  
**Chlorine, residual:**  
**Conductivity:** 0.175 uMHO  
**Temperature:** 11.75 deg C  
**Dissolved Oxygen:** 124.3 mg/L  
**Other:** DO 13.46  
**Flow:** CFS

TEST: Escherichia Coli		METHOD:	
ANALYTE	RESULT	UNITS	ANALYZED BY: DATE
Method Citation	SM 9223B		C Davis 2/18/2009
E. Coli Result	24,200	CFU/100ml	C Davis 2/18/2009

# PRIORITY

Inorganic Analysis

State of Tennessee - Environmental Laboratories  
PLEASE PRINT LEGIBLY



Laboratory Number **N00004168-001**  
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 **Blair L. Lassden**

Date **2-18-09** Time **10:10 AM**

Delivered to **Nashville Lab**

Date **2-18-09** Time **12:55 pm**

2. Received by

Date

Delivered to

Date

3. Received by

Date

Delivered to

Date

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

Date **2-18-09** Time **12:55**

Logged in by **Pamela Wilson**

Date **2-18-09** Time **13:10**

Additional Information

1. Approximate volume of sample

2. Nearest town or city **Waynesboro**

3. Others present at collection **Ryan Owens**

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

5. Field collection procedure, handling and/or preservation of this sample **per s.o.p.**

6. Mode of transportation to lab **lockable STATE TRUCK**

7. Sample sealed by

8. Date sample sealed

9. Remarks

PROJECT/SITE NO.	PROJECT NAME	COUNTY	DEPTH	SURFACE	MATRIX	WATER	COLLECTED: DATE	TIME	GEN. INORGANICS (CONT.)	Metals
STATION NUMBER	Waynesboro No. 5 TR	Waynes					2-18-09	10:10 AM	oil and grease	aluminum, Al
DESCRIPTION	Well									antimony, Sb
STREAM MILE										arsenic, As
COLLECTED: DATE										barium, Ba
SAMPLER'S NAME (printed)	Blair L. Lassden									beryllium, Be
SAMPLING AGENCY	TDEC/WAC									cadmium, Cd
IF PRIORITY DATE NEEDED	ASAP									calcium, Ca
SEND REPORT TO:	Ryan Owens									chromium, Cr
CONTACT HAZARD										cobalt, Co
Env. Microbiology										copper, Cu
coliform, fecal*										iron, Fe
coliform, total*										lead, Pb
strep, fecal*										magnesium, Mg
E. Coli*										manganese, Mn
Enterococcus*										mercury, Hg
Ambient Parameters										nickel, Ni
COD*										potassium, K
coliform, fecal										selenium, Se
conductivity*										silver, Ag
hardness, total as CaCO <sub>3</sub> *										sodium, Na
nitrogen, ammonia										thallium, Tl
nitrogen, NO <sub>3</sub> & NO <sub>2</sub>										vanadium, V
nitrogen, total Kjeldahl										zinc, Zn
phosphate, total										
pH										
residue, dissolved*										
residue, suspended*										
arsenic, As										
cadmium, Cd										
chromium, Cr										
copper, Cu										
lead, Pb										
mercury, Hg										
nickel, Ni										
zinc, Zn										
General inorganics										
acidity as CaCO <sub>3</sub> *										
alkalinity as CaCO <sub>3</sub> *										
alkalinity, phen. as CaCO <sub>3</sub> *										
BOD, 5-day*										
CBOD, 5-day*										
boron										
chloride*										
chlorine, residual*										
chromium, hexavalent										
COD*										
color, apparent*										
color, true*										
conductivity*										
cyanide										
flash point*										
fluoride*										
hardness, Ca as CaCO <sub>3</sub> *										
hardness, total as CaCO <sub>3</sub> *										
hydrocarbons, total										
MBAS*										
nitrogen, ammonia										
nitrogen, nitrate*										
nitrogen, nitrite*										
nitrogen, NO <sub>3</sub> & NO <sub>2</sub>										
nitrogen, total Kjeldahl										
nitrogen, total organic										
oil and grease										
orthophosphate, total*										
oxygen, dissolved*										
pH										
phenols, total										
phosphate, total										
residue, dissolved*										
residue, settleable*										
residue, suspended*										
residue; total*										
silica*										
sulfate*										
sulfide, total*										
TOC*										
turbidity*										
percent solids										
Asbestos										
bulk asbestos										
other microscopic										
Other										
arsenic, As										
barium, Ba										
cadmium, Cd										
chromium, Cr										
lead, Pb										
mercury, Hg										
nickel, Ni										
selenium, Se										
silver, Ag										

\* denotes analyses performed only on water

FIELD DETERMINATIONS	
Temperature	11.75 °C
pH	4.59
Chlorine, residual	
Conductivity	0.175 u/cm
Other	
Dissolved Oxygen	12.4.3 DO%
	DO 13.46

TC= 20C



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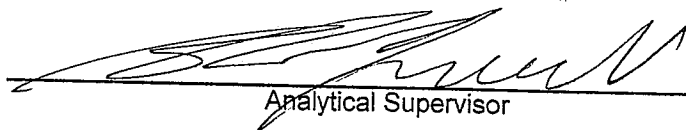
**Sent To:** Ryan Owens  
TDEC-WPC  
Columbia Field Office  
2484 Park Plus Drive  
Columbia, TN 38401

**Lab ID:** N00004168  
Nashville Central Laboratory

**Sampling Agency:** TDEC: Division of Water Pollution Control

**Billing Code:** 327.34-20

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Analytical Supervisor

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**Project Name:**  
**Sample Description:** EFFLUENT WEIR  
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**Sampling Agency:** TDEC-WPC  
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**Chlorine, residual:**  
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**Temperature:** 11.75 deg C  
**Dissolved Oxygen:** 124.3 mg/L  
**Other:** DO 13.46  
**Flow:** CFS

TEST: Ammonia		METHOD: EPA 350.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Ammonia	0.038J	mg/L	0.028	0.10	M Chen	2/20/2009

TEST: CBOD, 5 Day		METHOD: SM 5210 B				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
CBOD	320	mg/L	2.0	2.0	A Peoples	2/19/2009

TEST: Nitrate by IC		METHOD: EPA 300.0				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Nitrate by IC	0.77	mg/L	0.0072	0.050	P Leathers	2/18/2009

TEST: Nitrite by IC		METHOD: EPA 300.0				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Nitrite by IC	0.015J	mg/L	0.0051	0.050	P Leathers	2/18/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	360	ml/L	0.10	0.10	M Chen	2/18/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	1400	mg/L	20	20	A Peoples	2/19/2009

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**pH:** 4.59 pH Units  
**Chlorine, residual:**  
**Conductivity:** 0.175 uMHO  
**Temperature:** 11.75 deg C  
**Dissolved Oxygen:** 124.3 mg/L  
**Other:** DO 13.46  
**Flow:** CFS

TEST: Total Kjeldahl Nitrogen		METHOD: EPA 351.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
TKN	62	mg/L	7.00	25.00	L Satterwhite	2/21/2009

**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	Waynesboro, TN
STATION NUMBER	DESCRIPTION	DEPTH	Surface Weir
COLLECTED: DATE	2-18-09	MATRIX	WATER
SAMPLER'S NAME (printed)	Debra Logsdon	TIME	10:10 AM
SEND REPORT TO:	ASSAP	BILLING CODE	322,34-20
CONTACT HAZARD	Ryan Owens		
Env. Microbiology	General Inorganics	Gen. Inorganics (cont)	Metals
coliform, fecal*	acidity as CaCO <sub>3</sub> *	oil and grease	aluminum, Al
coliform, total*	alkalinity as CaCO <sub>3</sub> *	orthophosphate, total*	antimony, Sb
strept. fecal*	alkalinity, phen. as CaCO <sub>3</sub> *	oxygen, dissolved*	arsenic, As
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
	chromium, hexavalent	residue, suspended*	cobalt, Co
	COD*	silica*	copper, Cu
	conductivity*	sulfate*	iron, Fe
	hardness, total as CaCO <sub>3</sub> *	sulfide, total*	lead, Pb
	nitrogen, ammonia	TOC*	magnesium, Mg
	nitrogen, NO <sub>3</sub> & NO <sub>2</sub>	turbidity*	manganese, Mn
	nitrogen, total Kjeldahl	percent solids	mercury, Hg
	phosphate, total	Asbestos	nickel, Ni
	pH	bulk asbestos	potassium, K
	residue, dissolved*	other microscopic	selenium, Se
	residue, suspended*	Other	silver, Ag
	arsenic, As		
	cadmium, Cd		
	chromium, Cr		
	copper, Cu		
	lead, Pb		
	mercury, Hg		
	nickel, Ni		
	zinc, Zn		

LABORATORY NUMBER	N00004168-001
BRANCH LAB NUMBER	
CHAIN OF CUSTODY AND SUPPLEMENTAL INFORMATION	
1. Collected by	Debra Logsdon
Date	2-18-09 Time 10:10 AM
Delivered to	Nashville Lab
Date	2-18-09 Time 12:55 PM
2. Received by	
Date	
Delivered to	
Date	
3. Received by	
Date	
Delivered to	
Date	
4. Received in Lab by	Pamela Wilson
Date	2-18-09 Time 12:55
Logged in by	Pamela Wilson
Date	2-18-09 Time 13:10
Additional Information	
1. Approximate volume of sample	
2. Nearest town or city	Waynesboro
3. Others present at collection	Ryan Owens
4. Number of other samples collected at same time at this point	
5. Field collection procedure, handling and/or preservation of this sample	Per S.O.P.
6. Mode of transportation to lab	Lockable STATE Truck
7. Sample sealed by	
8. Date sample sealed	
9. Remarks	

\* denotes analyses performed only on water

TC = 20C

