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: Joe Holland
TDEC-WPC
Nashville Field Office
711 R.S. Gass Blvd
Nashville, TN 37243

Lab ID: N00003457
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 pratices and in accordance with federal or state approved methodologies.

Cathi Ayer
Analytical Supervisor

9-17-08

Lab-Sample Number: N00003457001
Project Name:
Sample Description: LIBERTY CREEK BEHIND OLD BGA
Sampler Project Name: LIBERTY CREEK 2006 COM
Project Site No.:
Station No.:
Date/Time Collected: 09/10/2008 09:20
Sampler's Name: BARBARA LOUDERMILK
County: WILLIAMSON - 94
Sample Matrix: Water
EFO: Nashville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 09/10/2008 11:50
Received By: L Barrociere

TEST: VOA 8260 **METHOD: EPA 5035/5030B/826** **ANALYZED: L. Maderal** **9/10/2008**

ANALYTE	CAS	RESULT	UNITS	MDL	MQL	DF
1,2,4-Trimethylbenzene	95-63-6	1.98	µg/L	0.25	0.50	1
1,3,5-Trimethylbenzene	108-67-8	0.60J	µg/L	0.14	1.0	1
2-Butanone (MEK)	78-93-3	133	µg/L	7.5	25	1
Acetone	67-64-1	35300	µg/L	730.0	1000	100
Benzene	71-43-2	1.74	µg/L	0.10	0.50	1
Ethylbenzene	100-41-4	4.39	µg/L	0.17	0.50	1
m&p-xylene	1330-20-7	30.8	µg/L	0.21	1.0	1
o-Xylene	95-47-6	8.23	µg/L	0.14	0.50	1
Toluene	108-88-3	33700	µg/L	95.00	250.00	500

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

Lab-Sample Number: N00003457002
Project Name:
Sample Description: HARPETH RIVER U/S LIBERTY CRK CONFL
Sampler Project Name: LIBERTY CREEK 2006 COM
Project Site No.:
Station No.:
Date/Time Collected: 09/10/2008 09:50
Sampler's Name: BARBARA LOUDERMILK
County: WILLIAMSON - 94
Sample Matrix: Water
EFO: Nashville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 09/10/2008 11:50
Received By: L Barrociere

TEST: VOA 8260 **METHOD: EPA 5035/5030B/826** **ANALYZED: L. Maderal** **9/10/2008**

ANALYTE	CAS	RESULT	UNITS	MDL	MQL	DF
Acetone	67-64-1	256	µg/L	7.3	10	1
Toluene	108-88-3	81.6	µg/L	0.19	0.50	1

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

Lab-Sample Number: N00003457003
Project Name:
Sample Description: HARPETH RIVER U/S STP OUTFALL
Sampler Project Name: LIBERTY CREEK 2006 CON
Project Site No.:
Station No.:
Date/Time Collected: 09/10/2008 10:35
Sampler's Name: BARBARA.LOUDERMILK
County: WILLIAMSON - 94
Sample Matrix: Water
EFO: Nashville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 09/10/2008 11:50
Received By: L Barrociere

TEST: VOA 8260 **METHOD: EPA 5035/5030B/826** **ANALYZED: L. Maderal** **9/10/2008**

ANALYTE	CAS	RESULT	UNITS	MDL	MQL	DF
Acetone	67-64-1	U	µg/L	7.3	10	1
Toluene	108-88-3	U	µg/L	0.19	0.50	1

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

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State of Tennessee - Environmental Laboratories

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Organic Analysis

Volatiles and Petroleum Hydrocarbons

Laboratory Number N00003457.001

PROJECT/SITE NO.	PROJECT NAME Liberty Crk 2006 Complaint
STATION NUMBER	COUNTY Williamson 94
DESCRIPTION Liberty Crk behind Old BGA	
STREAM MILE	DEPTH MATRIX water
COLLECTED: DATE 9/10/08	TIME 0920
SAMPLER'S NAME(printed) Barbara Loudermilk	
SAMPLING AGENCY WPC	BILLING CODE 327.34-20
IF PRIORITY, DATE NEEDED	
SEND REPORT TO: Joey Holland, WPC-NEFO	
CONTACT HAZARD Hazardous	

*	NPDES Volatiles - 624	*	TCL Volatiles - 8260A	*	TCLP Volatiles
	Bromoform		Chloromethane		Benzene
	Bromodichloromethane		Bromomethane		Carbon tetrachloride
	Carbon Tetrachloride		Vinyl chloride		Chlorobenzene
	Chlorobenzene		Chloroethane		Chloroform
	Chloroethane		Methylene chloride		1,2-Dichloroethane
	2-Chloroethylvinyl ether	X	Acetone		1,1-Dichloroethane
	Chloroform		Carbon disulfide		Methyl ethyl ketone
	Chloromethane		1,1-Dichloroethene		Tetrachloroethene
	Dibromochloromethane		1,1-Dichloroethane		Trichloroethene
	1,2-Dichlorobenzene		Cis-1,2-dichloroethene		Vinyl chloride
	1,3-Dichlorobenzene		Trans-1,2-dichloroethene	*	BTEX - 8260A - UST
	1,4-Dichlorobenzene		1,2-Dichloroethane		Benzene
	Dichlorodifluoromethane		Chloroform		Toluene
	1,1-Dichloroethane		2-Butanone		Ethyl benzene
	1,2-Dichloroethane		1,1,1-Trichloroethane		o-Xylene
	1,1-Dichloroethene		Carbon tetrachloride		m-Xylene
	Cis-1,2-dichloroethene		Vinyl acetate		p-Xylene
	Trans-1,2-dichloroethene		Bromodichloromethane		Methyl t-butyl ether
	1,2-Dichloropropane		1,2-Dichloropropane		Diisopropyl ether
	Cis-1,3-dichloropropene		Cis-1,3-dichloropropene	*	TPH by GC
	Trans-1,2-dichloroethene		Trichloroethene		Gasoline Range Organics
	Methylene chloride		Dibromochloromethane		Diesel Range Organics
	1,1,2,2-Tetrachloroethane		1,1,2-Trichloroethane		Oil Range Organics
	Tetrachloroethene		Benzene	*	Other
	1,1,1-Trichloroethane		Trans-1,3-dichloropropene		
	1,1,2-Trichloroethane		Bromoform		
	Trichloroethene		4-Methyl-2-pentanone		
	Trichlorofluoromethane		2-Hexanone		
	Vinyl chloride		Tetrachloroethene		
	Benzene	X	Toluene		
	Ethylbenzene		1,1,2,2-Tetrachloroethane		
	Toluene		Chlorobenzene		
	o-Xylene		Ethyl benzene		
	m-Xylene		Styrene		
	p-Xylene		o-Xylene		
			m-Xylene		
			p-Xylene		

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 Barbara Loudermilk
   Date 9/10/08 Time 0920
   Delivered to State Lab
   Date 9/10/08 Time 1150
2. Received by
   Date Time
   Delivered to
   Date Time
3. Received by
   Date Time
   Delivered to
   Date Time
4. Received in Lab by C Barrocien
   Date 9/10/08 Time 1150
   Logged in by C Barrocien
   Date 9/10/08 Time 1210

TC 3°C

Additional Information

1. Approximate volume of sample ~250ml
2. Nearest town or city Franklin
3. Others present at collection Ø
4. Number of other samples collected at same time at this point Ø
5. Field collection procedure, handling and/or preservation of this sample per WPC SOP
6. Mode of transportation to lab locked State Vehicle
7. Sample sealed by
8. Date sample sealed
9. Remarks
   T°C 19.88
   Sp Cond 656
   DO 1.91
   pH 7.39

PH-3013 (rev 11/97) RDA 1527

State of Tennessee - Environmental Laboratories

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Organic Analysis

Volatiles and Petroleum Hydrocarbons

Laboratory Number N00003457.002

PROJECT/SITE NO.	PROJECT NAME Liberty Crk Tox Complaint
STATION NUMBER H	COUNTY 94
DESCRIPTION Harpeth River u/s Liberty Crk Confluence	
STREAM MILE	DEPTH / MATRIX water
COLLECTED: DATE 9/10/08	TIME 0950
SAMPLER'S NAME(printed) Barbara Loudermilk	
SAMPLING AGENCY DWPC-NEFO	BILLING CODE 327.34-20
IF PRIORITY, DATE NEEDED	
SEND REPORT TO: Joey Holland DWPC-NEFO	
CONTACT HAZARD possible	

*	NPDES Volatiles - 624	*	TCL Volatiles - 8260A	*	TCLP Volatiles
	Bromoform		Chloromethane		Benzene
	Bromodichloromethane		Bromomethane		Carbon tetrachloride
	Carbon Tetrachloride		Vinyl chloride		Chlorobenzene
	Chlorobenzene		Chloroethane		Chloroform
	Chloroethane		Methylene chloride		1,2-Dichloroethane
	2-Chloroethylvinyl ether	X	Acetone		1,1-Dichloroethane
	Chloroform		Carbon disulfide		Methyl ethyl ketone
	Chloromethane		1,1-Dichloroethene		Tetrachloroethene
	Dibromochloromethane		1,1-Dichloroethane		Trichloroethene
	1,2-Dichlorobenzene		Cis-1,2-dichloroethene		Vinyl chloride
	1,3-Dichlorobenzene		Trans-1,2-dichloroethene	*	BTEX - 8260A - UST
	1,4-Dichlorobenzene		1,2-Dichloroethane		Benzene
	Dichlorodifluoromethane		Chloroform		Toluene
	1,1-Dichloroethane		2-Butanone		Ethyl benzene
	1,2-Dichloroethane		1,1,1-Trichloroethane		o-Xylene
	1,1-Dichloroethene		Carbon tetrachloride		m-Xylene
	Cis-1,2-dichloroethene		Vinyl acetate		p-Xylene
	Trans-1,2-dichloroethene		Bromodichloromethane		Methyl t-butyl ether
	1,2-Dichloropropane		1,2-Dichloropropane		Diisopropyl ether
	Cis-1,3-dichloropropene		Cis-1,3-dichloropropene	*	TPH by GC
	Trans-1,2-dichloroethene		Trichloroethene		Gasoline Range Organics
	Methylene chloride		Dibromochloromethane		Diesel Range Organics
	1,1,2,2-Tetrachloroethane		1,1,2-Trichloroethane		Oil Range Organics
	Tetrachloroethene		Benzene	*	Other
	1,1,1-Trichloroethane		Trans-1,3-dichloropropene		
	1,1,2-Trichloroethane		Bromoform		
	Trichloroethene		4-Methyl-2-pentanone		
	Trichlorofluoromethane		2-Hexanone		
	Vinyl chloride		Tetrachloroethene		
	Benzene	X	Toluene		
	Ethylbenzene		1,1,2,2-Tetrachloroethane		
	Toluene		Chlorobenzene		
	o-Xylene		Ethyl benzene		
	m-Xylene		Styrene		
	p-Xylene		o-Xylene		
			m-Xylene		
			p-Xylene		

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 Barbara Loudermilk
   Date 9/10/08 Time 0950
   Delivered to State Lab
   Date 9/10/08 Time 1150
2. Received by
   Date Time
   Delivered to
   Date Time
3. Received by
   Date Time
   Delivered to
   Date Time
4. Received in Lab by [illegible]
   Date 9/10/08 Time 1050
   Logged in by [illegible]
   Date 9/10/08 Time 1210

Additional Information

1. Approximate volume of sample ~250 mL
2. Nearest town or city Franklin
3. Others present at collection Ø
4. Number of other samples collected at same time at this point Ø
5. Field collection procedure, handling and/or preservation of this sample per WPC SOP
6. Mode of transportation to lab locked State Vehicle
7. Sample sealed by
8. Date sample sealed
9. Remarks
   T°C 22.85
   Sp Cond 445
   DO 6.57
   pH 7.77

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State of Tennessee - Environmental Laboratories

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Organic Analysis

Volatiles and Petroleum Hydrocarbons

Laboratory Number N00003457.003

PROJECT/SITE NO.	PROJECT NAME Liberty Crk 2006 Compliant
STATION NUMBER	COUNTY 94
DESCRIPTION Harpeth River u/s STP Outfall	
STREAM MILE	DEPTH MATRIX Water
COLLECTED: DATE 9/10/08	TIME 1035
SAMPLER'S NAME(printed) Barbara Loudermilk	
SAMPLING AGENCY DWPC-NEFO	BILLING CODE 327.34-20
IF PRIORITY, DATE NEEDED	
SEND REPORT TO: Joey Holland, DWPC-NEFO	
CONTACT HAZARD possible	

*	NPDES Volatiles - 624	*	TCL Volatiles - 8260A	*	TCLP Volatiles
	Bromoform		Chloromethane		Benzene
	Bromodichloromethane		Bromomethane		Carbon tetrachloride
	Carbon Tetrachloride		Vinyl chloride		Chlorobenzene
	Chlorobenzene		Chloroethane		Chloroform
	Chloroethane		Methylene chloride		1,2-Dichloroethane
	2-Chloroethylvinyl ether	X	Acetone		1,1-Dichloroethane
	Chloroform		Carbon disulfide		Methyl ethyl ketone
	Chloromethane		1,1-Dichloroethene		Tetrachloroethene
	Dibromochloromethane		1,1-Dichloroethane		Trichloroethene
	1,2-Dichlorobenzene		Cis-1,2-dichloroethene		Vinyl chloride
	1,3-Dichlorobenzene		Trans-1,2-dichloroethene	*	BTEX - 8260A - UST
	1,4-Dichlorobenzene		1,2-Dichloroethane		Benzene
	Dichlorodifluoromethane		Chloroform		Toluene
	1,1-Dichloroethane		2-Butanone		Ethyl benzene
	1,2-Dichloroethane		1,1,1-Trichloroethane		o-Xylene
	1,1-Dichloroethene		Carbon tetrachloride		m-Xylene
	Cis-1,2-dichloroethene		Vinyl acetate		p-Xylene
	Trans-1,2-dichloroethene		Bromodichloromethane		Methyl t-butyl ether
	1,2-Dichloropropane		1,2-Dichloropropane		Diisopropyl ether
	Cis-1,3-dichloropropene		Cis-1,3-dichloropropene	*	TPH by GC
	Trans-1,2-dichloroethene		Trichloroethene		Gasoline Range Organics
	Methylene chloride		Dibromochloromethane		Diesel Range Organics
	1,1,2,2-Tetrachloroethane		1,1,2-Trichloroethane		Oil Range Organics
	Tetrachloroethene		Benzene	*	Other
	1,1,1-Trichloroethane		Trans-1,3-dichloropropene		
	1,1,2-Trichloroethane		Bromoform		
	Trichloroethene		4-Methyl-2-pentanone		
	Trichlorofluoromethane		2-Hexanone		
	Vinyl chloride		Tetrachloroethene		
	Benzene	X	Toluene		
	Ethylbenzene		1,1,2,2-Tetrachloroethane		
	Toluene		Chlorobenzene		
	o-Xylene		Ethyl benzene		
	m-Xylene		Styrene		
	p-Xylene		o-Xylene		
			m-Xylene		
			p-Xylene		

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 Barbara Loudermilk
   Date 9/10/08 Time 1035
   Delivered to State Lab
   Date 9/10/08 Time 1150
2. Received by
   Date Time
   Delivered to
   Date Time
3. Received by
   Date Time
   Delivered to
   Date Time
4. Received in Lab by L Bonacieu
   Date 9/10/08 Time 1150
   Logged in by L Bonacieu
   Date 9/10/08 Time 1210

Additional Information

1. Approximate volume of sample ~250 mL
2. Nearest town or city Franklin
3. Others present at collection VIC Bates
4. Number of other samples collected at same time at this point Ø
5. Field collection procedure, handling and/or preservation of this sample per WPC SOP
6. Mode of transportation to lab locked State Vehicle
7. Sample sealed by
8. Date sample sealed
9. Remarks
   T°C 22.70
   Sp Cond 500
   DO 6.64
   pH 7.82

PH-3013 (rev 11/97) RDA 1527

Laboratory Sample C trol Log and Manifest

Sample ID Number	Person Delivering Sample	Agency Submitting Sample	Date Sample Collected	Person Receiving Sample	Date Sample Received	Time Sample Received in	How Sample Transported to	Condition of Sample/Cooler(Sealed, Unsealed, Broken,etc
N000034557 001>003	BARBARA LOUDERMILK	WPC/NASHVL. EFO	9/10/08	LEO BARROCIERE	9/10/08	11:50	STATE CAR/ COOLER	SAMPLE UNSEALED/ CONTAINER SEALED

Sample Description and Quantity	Transferring Sample	Name of Lab Sample Transferred To	Name of Courier Transferring Sample	Date/Time Samples Relinquished to Courier	Name of Person Receiving Sample in Lab	Date/Time N Received in Lab	Sample (Sealed, Unsealed, Broken, etc.)	Condition of Cooler (Sealed, Unsealed, Broken, etc.)

Within Laboratory Sample Manifest

Name of Person Requesting Sample for Analysis	Date/Time Sample Relinquished for Analysis	Comments	Name of Person Returning Sample from Analysis	Date/Time Sample Returned from Analysis	How Sample Destroyed	Date/Time Sample Destroyed	Who Destroyed Sample
LCM	9/10/08 12:45	VOA	LCM	9/12/08 3:00			