

Jamie Belcourt (adpce.ad)

From: Jamie Belcourt (adpce.ad)
Sent: Monday, June 26, 2023 10:45 AM
To: Randel Davis (randel.davis@badboymowers.com)
Subject: Bad Boy Inc. (Pretreatment IDs ARP001027 & ARP001028) June 2023 Semiannual Pretreatment Reports

Mr. Davis,

Bad Boy Inc.'s (Pretreatment IDs ARP001027 & ARP001028) semiannual pretreatment reports for June 2023 were electronically received, reviewed, and deemed complete and compliant with the reporting requirements in 40 CFR § 403.12(e) and more specifically in compliance with the Metal Finishing Pretreatment standards in 40 CFR § 433.17.

Thank you,

Jamie Belcourt | Pretreatment Coordinator

Division of Environmental Quality | Office of Water Quality
Policy & Administration

5301 Northshore Drive | North Little Rock, AR 72118

t: 501.682.0858 | c: 501.287.8714 | e: jamie.belcourt@adeq.state.ar.us



ARKANSAS
ENERGY & ENVIRONMENT

SEMI-ANNUAL REPORT FOR INDUSTRIAL USERS REGULATED BY 40CFR433

Use of this form is not an EPA/ADEQ requirement.

Attn: Water Div/NPDES Pretreatment

(1) IDENTIFYING INFORMATION

A. LEGAL NAME & MAILING ADDRESS

Bad Boy Inc. AR 0020702
 102 Industrial Drive
 Batesville AR 72501

B. FACILITY & LOCATION ADDRESS

Same as mailing Address

001#

C. FACILITY CONTACT:

Randel Davis

TELEPHONE NUMBER:

870 672 0350

e-mail:

Randel.davis@badboy-mowers.com

(2) REPORTING PERIOD--FISCAL YEAR From ??? to ??? (Both Semi-Annual Reports must cover Fiscal Year)

A. MONTHS WHICH REPORTS ARE DUE

June & December

B. PERIOD COVERED BY THIS REPORT

FROM: December TO: June

(3) DESCRIPTION OF OPERATION

A. REGULATED PROCESSES

CORE PROCESS(ES)

CHECK EACH APPLICABLE BLOCK

- Electroplating
- Electroless Plating
- Anodizing
- Coating
- Chemical Etching and Milling
- Printed Circuit Board Manufacture

ANCILLARY PROCESS(ES)*

LIST BELOW EACH PROCESS USED IN THE FACILITY

Stages 2 & 4 are rinse
 stages in a five stage
 wash cleaning process

*SEE 40CFR433.10(a) FOR 40 DIFFERENT OPERATIONS.

B. CHANGES:

SUMMARIZE ANY CHANGES IN THE REGULATED PROCESSES SINCE THE LAST REPORT. ATTACH AN ADDITIONAL SHEET IF THE SPACE BELOW IS INADEQUATE. PROVIDE A NEW SCHEMATIC IF APPROPRIATE.

N/A

C. Number of Regular Employees at this Facility

1060

D. [Reserved]

(4) FLOW MEASUREMENT

INDIVIDUAL & TOTAL PROCESS FLOWS DISCHARGED TO POTW IN GALLONS PER DAY

Process	Average	Maximum	Type of Discharge
Regulated (Core & Ancillary)	12500	18500	
Regulated (Cyanide)			
' 403.6(e) Unregulated*			
' 403.6(e) Dilute			
Cooling Water			
Sanitary	18000	22000	
Total Flow to POTW	30500	40500	*****

*"Unregulated" has a precise legal meaning; see 40CFR403.6(e).

(5) MEASUREMENT OF POLLUTANTS

A. TYPE OF TREATMENT SYSTEM

CHECK EACH APPLICABLE BLOCK

- Neutralization
- Chemical Precipitation and Sedimentation
- Chromium Reduction
- Cyanide Destruction
- Other _____
- None

B. COMMENTS ON TREATMENT SYSTEM

stage 1 & 3 captured and picked up by Wasted Services Inc

C. THE INDUSTRIAL USER MUST PERFORM SAMPLING AND ANALYSIS OF THE EFFLUENT FROM ALL REGULATED PROCESSES-- CORE & ANCILLARY--(AFTER TREATMENT, IF APPLICABLE). ATTACH THE LAB ANALYSIS WHICH SHOWS A MAXIMUM; TABULATE ALL THE ANALYTICAL DATA COLLECTED DURING THE REPORT PERIOD IN THE SPACE PROVIDED BELOW. ZERO CONCENTRATIONS ARE NOT ACCEPTABLE; LIST THE DETECTION LIMIT IF CONCENTRATION WAS BELOW DETECTION LIMIT.

Pollutant(mg/l)	Cd	Cr	Cu	Pb	Ni	Ag	Zn	CN	TTO*
Max for 1 day	0.11	2.77	3.38	0.69	3.98	0.43	2.61	1.20	2.13
Monthly Ave	0.07	1.71	2.07	0.43	2.38	0.24	1.48	0.65	--
Max Measured	<0.02	<0.02	<0.02	<0.02	0.020	0.02	<0.02	<0.01	BDL
Ave Measured									

Sample Location sump pit at end of process

Sample Type (Grab or Composite) Grab

Number of Samples and Frequency Collected 1

40CFR136 Preservation and Analytical Methods Use: Yes No

(6) CERTIFICATION

A. [Reserved]

[Reserved]

B. CHECK ONE: '433.11(e) TOXIC ORGANIC ANALYSIS ATTACHED '433.12(a) TTO CERTIFICATION

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing of the last semi-annual compliance report. I further certify that this facility is implementing the foxic organic management plan submitted to Arkansas Department of Environmental Quality.

(Typed Name)

(Corporate Officer or authorized representative)

Date of Signature _____

CORPORATE ACKNOWLEDGEMENT (Optional)

STATE OF ARKANSAS)
COUNTY OF _____)

Before me, the undersigned authority, on this day personally appeared _____ of _____, a corporation, known to me to be the person whose name is subscribed to the foregoing instrument(s), and acknowledged to me that he executed the same for purposes and considerations therein expressed, in the capacity therein stated and as the act and deed of said corporation.

Given under my hand and seal of office on this _____ day of _____, 200__.

Notary Public in and for _____
County, Arkansas

My commission expires _____.

(7) POLLUTION PREVENTION ACT OF 1990 [42 U.S.C. 13101 et seq.]

'6602 [42 U.S.C. 13101] Findings and Policy para (b) Policy.--The Congress hereby declares it to be the national policy of the United States that pollution should be prevented or reduced at the source whenever feasible; pollution that cannot be prevented should be recycled in an environmentally safe manner, whenever feasible; pollution that cannot be prevented or recycled should be treated in an environmentally safe manner whenever feasible; and disposal or other release into the environment should be employed only as a last resort and should be conducted in an environmentally safe manner.

The User may list any new or ongoing Pollution Prevention practices:

(8) GENERAL COMMENTS

(9) SIGNATORY REQUIREMENTS [40CFR403.12(l)]

I certify under penalty of law that I have personally examined and am familiar with the information in 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.

Randal Davis
NAME OF CORPORATE OFFICER OR AUTHORIZED REPRESENTATIVE

Randal Davis
SIGNATURE

Parrot supervisor
OFFICIAL TITLE

6-16-23
DATE SIGNED

Arkansas Testing Laboratories

3301 Langley Drive · Searcy, AR 72143 (501) 268-6431 f(844) 318-7030

NPDES Wastewater Monitoring
 Water and Wastewater Analysis
 Concrete, Asphalt, and Aggregate Testing
 Geotechnical Testing
 Industrial and Construction Quality Control

BAD BOY MOWERS

Collection Date / Time: May 17, 2023
 Collection Place: Paint Shop #1
 Collected By: JMP

10:20 AM

Wastewater Analysis

Parameter	Date / Time Begin	Date / Time End	Results	Unit	Analyst	% Spike	Rel %	Sample Type	Ref #
Cadmium	05/25 11:35 AM	NA	< 0.02	mg/l	KLB	99.8	1.35	Grab	1
Chromium	05/25 11:35 AM	NA	< 0.02	mg/l	KLB	99.6	1.19	Grab	1
Copper	05/25 11:35 AM	NA	< 0.02	mg/l	KLB	99.1	0.81	Grab	1
Lead	05/25 11:35 AM	NA	< 0.02	mg/l	KLB	105.7	0.85	Grab	1
Nickel	05/25 11:35 AM	NA	0.020	mg/l	KLB	95.5	0.24	Grab	1
Zinc	05/25 11:35 AM	NA	< 0.02	mg/l	KLB	100.3	1.39	Grab	1
Silver	05/25 11:35 AM	NA	< 0.02	mg/l	KLB	100.1	0.00	Grab	1
<i>Volatile, Semi-Volatile (BNA) AI # 192-1927-1</i>						SEE ATTACHED REPORT			
pH	05/17 10:20 AM	NA	7.54	S.U.	JMP	NA	0.12	GRAB	3
Cyanide, Total	05/31 2:15 PM	NA	< 0.01	mg/l	KLB	105.2	0.00	GRAB	4


Quality Assurance: All Parameters include 10% duplication studies by random selection. The following equipment is checked and calibrated daily: pH meter, balance, incubators, water baths, drying oven and sterilizing apparatus. Ammonia Nitrogen and Oil & Grease Analysis include duplication and spike studies at a rate of at least 10%.

Notes: Samples iced at collection. Preserved with H₂SO₄ to pH₂: Oil & Grease, Ammonia, COD

References:

Analysis complies with 40 CFR Part 136:

1. SM 3120B-2011
2. See attached American Interplex Report
3. SM 4500 HB
4. SM 4500-CN-E


 Neville Adams, Manager

SEMI-ANNUAL REPORT FOR INDUSTRIAL USERS REGULATED BY 40CFR433

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Attn: Water Div/NPDES Pretreatment

(1) IDENTIFYING INFORMATION

A. LEGAL NAME & MAILING ADDRESS

Bad Boy Inc
102 Industrial Dr. AR0020702
Batesville AR 72501

B. FACILITY & LOCATION ADDRESS

Same as mailing Address

002#

C. FACILITY CONTACT:

Randel Davis

TELEPHONE NUMBER:

870.622.0350

e-mail:

randel.davis@badboy-mowers.com

(2) REPORTING PERIOD--FISCAL YEAR From ??? to ??? (Both Semi-Annual Reports must cover Fiscal Year)

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June & December

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ANCILLARY PROCESS(ES)*

LIST BELOW EACH PROCESS USED IN THE FACILITY

stages 2 & 4 are
rise stages in a five stage
wash cleaning process

B. CHANGES:

SUMMARIZE ANY CHANGES IN THE REGULATED PROCESSES SINCE THE LAST REPORT. ATTACH AN ADDITIONAL SHEET IF THE SPACE BELOW IS INADEQUATE. PROVIDE A NEW SCHEMATIC IF APPROPRIATE.

N/A

*SEE 40CFR433.10(a) FOR 40 DIFFERENT OPERATIONS

C. Number of Regular Employees at this Facility

1060

D. [Reserved]

(4) FLOW MEASUREMENT

INDIVIDUAL & TOTAL PROCESS FLOWS DISCHARGED TO POTW IN GALLONS PER DAY

Process	Average	Maximum	Type of Discharge
Regulated (Core & Ancillary)	15000	21000	
Regulated (Cyanide)			
' 403.6(e) Unregulated*			
' 403.6(e) Dilute			
Cooling Water			
Sanitary	18000	22000	
Total Flow to POTW	33000	43000	*****

*"Unregulated" has a precise legal meaning; see 40CFR403.6(e).

(5) MEASUREMENT OF POLLUTANTS

A. TYPE OF TREATMENT SYSTEM

CHECK EACH APPLICABLE BLOCK

- Neutralization
- Chemical Precipitation and Sedimentation
- Chromium Reduction
- Cyanide Destruction
- Other _____
- None

B. COMMENTS ON TREATMENT SYSTEM

C. THE INDUSTRIAL USER MUST PERFORM SAMPLING AND ANALYSIS OF THE EFFLUENT FROM ALL REGULATED PROCESSES-- CORE & ANCILLARY--(AFTER TREATMENT, IF APPLICABLE). ATTACH THE LAB ANALYSIS WHICH SHOWS A MAXIMUM; TABULATE ALL THE ANALYTICAL DATA COLLECTED DURING THE REPORT PERIOD IN THE SPACE PROVIDED BELOW. ZERO CONCENTRATIONS ARE NOT ACCEPTABLE; LIST THE DETECTION LIMIT IF CONCENTRATION WAS BELOW DETECTION LIMIT.

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Monthly Ave	0.07	1.71	2.07	0.43	2.38	0.24	1.48	0.65	--
Max Measured	40.02	40.02	40.02	40.02	0.020	40.02	40.02	40.01	BDL
Ave Measured									

Sample Location sump pit at End of Process

Sample Type (Grab or Composite) Grab

Number of Samples and Frequency Collected 1

40CFR136 Preservation and Analytical Methods Use: Yes No

(6) CERTIFICATION

A. [Reserved]

[Reserved]

B. CHECK ONE: G '433.11(e) TOXIC ORGANIC ANALYSIS ATTACHED G '433.12(a) TTO CERTIFICATION

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing of the last semi-annual compliance report. I further certify that this facility is implementing the foxic organic management plan submitted to Arkansas Department of Environmental Quality.

(Typed Name)

(Corporate Officer or authorized representative)

Date of Signature _____

CORPORATE ACKNOWLEDGEMENT (Optional)

STATE OF ARKANSAS)
COUNTY OF _____)

Before me, the undersigned authority, on this day personally appeared _____ of _____, a corporation, known to me to be the person whose name is subscribed to the foregoing instrument(s), and acknowledged to me that he executed the same for purposes and considerations therein expressed, in the capacity therein stated and as the act and deed of said corporation.

Given under my hand and seal of office on this _____ day of _____, 200__.

Notary Public in and for _____
County, Arkansas

My commission expires _____.

Bud Buy Inc

(7) POLLUTION PREVENTION ACT OF 1990 [42 U.S.C. 13101 et seq.]

'6602 [42 U.S.C. 13101] Findings and Policy para (b) Policy.--The Congress hereby declares it to be the national policy of the United States that pollution should be prevented or reduced at the source whenever feasible; pollution that cannot be prevented should be recycled in an environmentally safe manner, whenever feasible; pollution that cannot be prevented or recycled should be treated in an environmentally safe manner whenever feasible; and disposal or other release into the environment should be employed only as a last resort and should be conducted in an environmentally safe manner.

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I certify under penalty of law that I have personally examined and am familiar with the information in 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.

Randel Davis

NAME OF CORPORATE OFFICER OR AUTHORIZED REPRESENTATIVE

Randel Davis

SIGNATURE

Plant supervisor

OFFICIAL TITLE

6-16-23

DATE SIGNED

Arkansas Testing Laboratories

3301 Langley Drive · Searcy, AR 72143

(501) 268-6431 f(844) 318-7030

NPDES Wastewater Monitoring

Water and Wastewater Analysis

Concrete, Asphalt, and Aggregate Testing

Geotechnical Testing

Industrial and Construction Quality Control

BAD BOY MOWERS

Collection Date / Time: May 17, 2023

10:27 AM

Wastewater Analysis

Collection Place: Paint Shop #2

Collected By: JMP

Parameter	Date / Time Begin	Date / Time End	Results	Unit	Analyst	% Spike	Rel %	Sample Type	Ref #
Cadmium	05/25 11:35 AM	NA	< 0.02	mg/l	KLB	99.8	1.35	Grab	1
Chromium	05/25 11:35 AM	NA	< 0.02	mg/l	KLB	99.6	1.19	Grab	1
Copper	05/25 11:35 AM	NA	< 0.02	mg/l	KLB	99.1	0.81	Grab	1
Lead	05/25 11:35 AM	NA	< 0.02	mg/l	KLB	105.7	0.85	Grab	1
Nickel	05/25 11:35 AM	NA	0.020	mg/l	KLB	95.5	0.24	Grab	1
Zinc	05/25 11:35 AM	NA	< 0.02	mg/l	KLB	100.3	1.39	Grab	1
Silver	05/25 11:35 AM	NA	< 0.02	mg/l	KLB	100.1	0.00	Grab	1
<i>Volatile, Semi-Volatile (BNA) AI # 192-1927-1</i>						SEE ATTACHED REPORT			
pH	05/17 10:27 AM	NA	7.36	S.U.	JMP	NA	0.12	GRAB	3
Cyanide, Total	05/31 2:15 PM	NA	< 0.01	mg/l	KLB	105.2	0.00	GRAB	4


Quality Assurance: All Parameters include 10% duplication studies by random selection. The following equipment is checked and calibrated daily: pH meter, balance, incubators, water baths, drying oven and sterilizing apparatus. Ammonia Nitrogen and Oil & Grease Analysis include duplication and spike studies at a rate of at least 10%.

Notes: Samples iced at collection. Preserved with H₂SO₄ to pH₂: Oil & Grease, Ammonia, COD

References:

Analysis complies with 40 CFR Part 136:

1. SM 3120B-2011
2. See attached American Interplex Report
3. SM 4500 HB
4. SM 4500-CN-E


Neville Adams, Manager

Arkansas Testing Laboratories

3301 Langley Ave - Searcy, AR 72143
(501) 268-6431 f(501) 268-9314
arkatl@sbcglobal.net

NPDES Wastewater Monitoring
Water and Wastewater Analysis
Concrete, Asphalt, and Aggregate Testing
Geotechnical Testing
Industrial and Construction Quality Control

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

CLIENT: **Bad Boy Mowers #1**

SAMPLE TYPE	SAMPLE MATRIX	SAMPLED BY:				Grab / Comp	pH / DO #	PARAMETERS						
		DATE	TIME					NP-iced	HCl	NaOH	HNO3			
EFF	W=H2O S=SLUDGE D=SOIL C=WELL	5-17	10:20			Grab	7.54	1-L-G	2-40-G	1-L-P	1-L-P			

Comments:

RECD INTO THE LAB

32 °C

Relinquished by: JP

Date/Time: 5-17-23

Received by: 12:00

Received by: (Into the Lab)

Date/Time: 5-17-23

Date/Time: 5-17-23

JP

JP

Rec

Arkansas Testing Laboratories

3301 Langley Ave · Searcy, AR 72143
 (501) 258-6431 f(501) 268-9314
 arkatl@stbcglobal.net

NPDES Wastewater Monitoring
 Water and Wastewater Analysis
 Concrete, Asphalt, and Aggregate Testing
 Geotechnical Testing
 Industrial and Construction Quality Control

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

CLIENT: **Bad Boy Mowers #2**

SAMPLE TYPE	SAMPLE MATRIX	SAMPLED BY:			Grab / Comp	pH	PARAMETERS												
		DATE	TIME	INITIALS			NP-led	HCl	NaOH	HNO3	Volatiles	Cyanide	Metals						
EFF	W=H2O S=SLUDGE D=SOIL C=WELL	5-17	10:21	JP	Grab	7.36													

Comments: _____

COLLECT: _____

REC'D INTO THE LAB
 3.2 °C

Relinquished by: *JP* Date/Time: 5-17-23

Received by: *[Signature]* (into the lab) Date/Time: 5-17-23

Received by: *[Signature]* Date/Time: 5-17-23

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Lorrie Barbee
Arkansas Testing Laboratories
3301 Langley Drive
Searcy, Arkansas 72143

Generated 5/23/2023 2:20:06 PM

JOB DESCRIPTION

General

JOB NUMBER

192-1927-1

Eurofins Arkansas

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
5/23/2023 2:20:06 PM

Authorized for release by
Steve Bradford, Lab Director
steve.bradford@et.eurofinsus.com
(501)224-5060



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Definitions/Glossary

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Job ID: 192-1927-1

Laboratory: Eurofins Arkansas

Narrative

Job Narrative 192-1927-1

Comments

No additional comments.

Receipt

The samples were received on 5/17/2023 2:48 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA

Method 624.1: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 192-2563 recovered outside control limits for the following analytes: Acrolein. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Methods 625.1, 8270E: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 192-2589 and analytical batch 192-2746 recovered outside control limits. Samples could not be re-extracted due to holding time.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Client Sample ID: Bad Boy 1

Lab Sample ID: 192-1927-1

Date Collected: 05/17/23 10:20

Matrix: Water

Date Received: 05/17/23 14:48

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	<20	*+	20	ug/L			05/18/23 01:53	1
Benzene	<5.0		5.0	ug/L			05/18/23 01:53	1
Acrylonitrile	<10		10	ug/L			05/18/23 01:53	1
Bromodichloromethane	<5.0		5.0	ug/L			05/18/23 01:53	1
Bromoform	<5.0		5.0	ug/L			05/18/23 01:53	1
Bromomethane	<5.0		5.0	ug/L			05/18/23 01:53	1
Carbon tetrachloride	<2.0		2.0	ug/L			05/18/23 01:53	1
Chlorobenzene	<5.0		5.0	ug/L			05/18/23 01:53	1
Chloroethane	<5.0		5.0	ug/L			05/18/23 01:53	1
2-Chloroethyl vinyl ether	<10		10	ug/L			05/18/23 01:53	1
Chloroform	<4.0		4.0	ug/L			05/18/23 01:53	1
Chloromethane	<5.0		5.0	ug/L			05/18/23 01:53	1
Dibromochloromethane	<5.0		5.0	ug/L			05/18/23 01:53	1
1,2-Dichlorobenzene	<5.0		5.0	ug/L			05/18/23 01:53	1
1,4-Dichlorobenzene	<5.0		5.0	ug/L			05/18/23 01:53	1
1,3-Dichlorobenzene	<5.0		5.0	ug/L			05/18/23 01:53	1
1,1-Dichloroethane	<5.0		5.0	ug/L			05/18/23 01:53	1
1,2-Dichloroethane	<5.0		5.0	ug/L			05/18/23 01:53	1
1,1-Dichloroethene	<5.0		5.0	ug/L			05/18/23 01:53	1
trans-1,2-Dichloroethene	<2.0		2.0	ug/L			05/18/23 01:53	1
1,2-Dichloropropane	<5.0		5.0	ug/L			05/18/23 01:53	1
cis-1,3-Dichloropropene	<5.0		5.0	ug/L			05/18/23 01:53	1
trans-1,3-Dichloropropene	<5.0		5.0	ug/L			05/18/23 01:53	1
Ethylbenzene	<5.0		5.0	ug/L			05/18/23 01:53	1
Methylene Chloride	<5.0		5.0	ug/L			05/18/23 01:53	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	ug/L			05/18/23 01:53	1
Tetrachloroethene	<5.0		5.0	ug/L			05/18/23 01:53	1
Toluene	<5.0		5.0	ug/L			05/18/23 01:53	1
1,1,1-Trichloroethane	<5.0		5.0	ug/L			05/18/23 01:53	1
1,1,2-Trichloroethane	<5.0		5.0	ug/L			05/18/23 01:53	1
Trichloroethene	<5.0		5.0	ug/L			05/18/23 01:53	1
Vinyl chloride	<2.0		2.0	ug/L			05/18/23 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		90 - 109		05/18/23 01:53	1
Toluene-d8 (Surr)	94		87 - 112		05/18/23 01:53	1
4-Bromofluorobenzene (Surr)	90		86 - 112		05/18/23 01:53	1

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<5.0	*-	5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Acenaphthylene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Anthracene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Benzidine	<50		50	ug/L		05/18/23 13:23	05/19/23 20:09	1
Benzo[a]anthracene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Benzo[a]pyrene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Benzo[b]fluoranthene	<10		10	ug/L		05/18/23 13:23	05/19/23 20:09	1
Benzo[g,h,i]perylene	<10		10	ug/L		05/18/23 13:23	05/19/23 20:09	1
Benzo[k]fluoranthene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Bis(2-chloroethoxy)methane	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1

Eurofins Arkansas

Client Sample Results

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Client Sample ID: Bad Boy 1

Lab Sample ID: 192-1927-1

Date Collected: 05/17/23 10:20

Matrix: Water

Date Received: 05/17/23 14:48

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
bis (2-chloroisopropyl) ether	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Bis(2-ethylhexyl) phthalate	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
4-Bromophenyl phenyl ether	<5.0	*-	5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Butyl benzyl phthalate	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
2-Chloronaphthalene	<5.0	*- *1	5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
4-Chlorophenyl phenyl ether	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Chrysene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Dibenz(a,h)anthracene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
1,2-Dichlorobenzene	<5.0	*1	5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
1,3-Dichlorobenzene	<5.0	*- *1	5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
1,4-Dichlorobenzene	<5.0	*- *1	5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
3,3'-Dichlorobenzidine	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Diethyl phthalate	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Dimethyl phthalate	<4.0		4.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Di-n-butyl phthalate	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
2,4-Dinitrotoluene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
2,6-Dinitrotoluene	<5.0	*-	5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Di-n-octyl phthalate	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
1,2-Diphenylhydrazine	<5.0	*1	5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Fluoranthene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Fluorene	<5.0	*-	5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Hexachlorobenzene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Hexachlorobutadiene	<2.0		2.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Hexachlorocyclopentadiene	<10	*1	10	ug/L		05/18/23 13:23	05/19/23 20:09	1
Hexachloroethane	<4.0	*-	4.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Indeno[1,2,3-cd]pyrene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Isophorone	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Naphthalene	<4.0		4.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Nitrobenzene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
N-Nitrosodimethylamine	<10	*1	10	ug/L		05/18/23 13:23	05/19/23 20:09	1
N-Nitrosodi-n-propylamine	<10		10	ug/L		05/18/23 13:23	05/19/23 20:09	1
N-Nitrosodiphenylamine	<10		10	ug/L		05/18/23 13:23	05/19/23 20:09	1
Phenanthrene	<5.0	*-	5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Pyrene	<5.0	*-	5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
1,2,4-Trichlorobenzene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
2-Chlorophenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
2,4-Dichlorophenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
2,4-Dimethylphenol	<5.0	*-	5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
4,6-Dinitro-2-methylphenol	<10		10	ug/L		05/18/23 13:23	05/19/23 20:09	1
2,4-Dinitrophenol	<10		10	ug/L		05/18/23 13:23	05/19/23 20:09	1
2-Nitrophenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
4-Nitrophenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
4-Chloro-3-methylphenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Pentachlorophenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
Phenol	<4.0		4.0	ug/L		05/18/23 13:23	05/19/23 20:09	1
2,4,6-Trichlorophenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	40		33 - 96	05/18/23 13:23	05/19/23 20:09	1

Eurofins Arkansas

Client Sample Results

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Client Sample ID: Bad Boy 1

Date Collected: 05/17/23 10:20

Date Received: 05/17/23 14:48

Lab Sample ID: 192-1927-1

Matrix: Water

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	51	S1-	54 - 111	05/18/23 13:23	05/19/23 20:09	1
p-Terphenyl-d14 (Surr)	52		46 - 121	05/18/23 13:23	05/19/23 20:09	1
2,4,6-Tribromophenol (Surr)	37		35 - 125	05/18/23 13:23	05/19/23 20:09	1
2-Fluorobiphenyl (Surr)	50		49 - 108	05/18/23 13:23	05/19/23 20:09	1

Client Sample ID: Bad Boy 2

Date Collected: 05/17/23 10:27

Date Received: 05/17/23 14:48

Lab Sample ID: 192-1927-2

Matrix: Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	<20	*+	20	ug/L			05/18/23 02:23	1
Benzene	<5.0		5.0	ug/L			05/18/23 02:23	1
Acrylonitrile	<10		10	ug/L			05/18/23 02:23	1
Bromodichloromethane	<5.0		5.0	ug/L			05/18/23 02:23	1
Bromoform	<5.0		5.0	ug/L			05/18/23 02:23	1
Bromomethane	<5.0		5.0	ug/L			05/18/23 02:23	1
Carbon tetrachloride	<2.0		2.0	ug/L			05/18/23 02:23	1
Chlorobenzene	<5.0		5.0	ug/L			05/18/23 02:23	1
Chloroethane	<5.0		5.0	ug/L			05/18/23 02:23	1
2-Chloroethyl vinyl ether	<10		10	ug/L			05/18/23 02:23	1
Chloroform	<4.0		4.0	ug/L			05/18/23 02:23	1
Chloromethane	<5.0		5.0	ug/L			05/18/23 02:23	1
Dibromochloromethane	<5.0		5.0	ug/L			05/18/23 02:23	1
1,2-Dichlorobenzene	<5.0		5.0	ug/L			05/18/23 02:23	1
1,4-Dichlorobenzene	<5.0		5.0	ug/L			05/18/23 02:23	1
1,3-Dichlorobenzene	<5.0		5.0	ug/L			05/18/23 02:23	1
1,1-Dichloroethane	<5.0		5.0	ug/L			05/18/23 02:23	1
1,2-Dichloroethane	<5.0		5.0	ug/L			05/18/23 02:23	1
1,1-Dichloroethene	<5.0		5.0	ug/L			05/18/23 02:23	1
trans-1,2-Dichloroethene	<2.0		2.0	ug/L			05/18/23 02:23	1
1,2-Dichloropropane	<5.0		5.0	ug/L			05/18/23 02:23	1
cis-1,3-Dichloropropene	<5.0		5.0	ug/L			05/18/23 02:23	1
trans-1,3-Dichloropropene	<5.0		5.0	ug/L			05/18/23 02:23	1
Ethylbenzene	<5.0		5.0	ug/L			05/18/23 02:23	1
Methylene Chloride	<5.0		5.0	ug/L			05/18/23 02:23	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	ug/L			05/18/23 02:23	1
Tetrachloroethene	<5.0		5.0	ug/L			05/18/23 02:23	1
Toluene	<5.0		5.0	ug/L			05/18/23 02:23	1
1,1,1-Trichloroethane	<5.0		5.0	ug/L			05/18/23 02:23	1
1,1,2-Trichloroethane	<5.0		5.0	ug/L			05/18/23 02:23	1
Trichloroethene	<5.0		5.0	ug/L			05/18/23 02:23	1
Vinyl chloride	<2.0		2.0	ug/L			05/18/23 02:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		90 - 109		05/18/23 02:23	1
Toluene-d8 (Surr)	95		87 - 112		05/18/23 02:23	1
4-Bromofluorobenzene (Surr)	89		86 - 112		05/18/23 02:23	1

Eurofins Arkansas

Client Sample Results

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Client Sample ID: Bad Boy 2

Lab Sample ID: 192-1927-2

Date Collected: 05/17/23 10:27

Matrix: Water

Date Received: 05/17/23 14:48

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<5.0	*-	5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Acenaphthylene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Anthracene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Benzidine	<50		50	ug/L		05/18/23 13:23	05/19/23 20:44	1
Benzo[a]anthracene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Benzo[a]pyrene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Benzo[b]fluoranthene	<10		10	ug/L		05/18/23 13:23	05/19/23 20:44	1
Benzo[g,h,i]perylene	<10		10	ug/L		05/18/23 13:23	05/19/23 20:44	1
Benzo[k]fluoranthene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Bis(2-chloroethoxy)methane	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Bis(2-chloroethyl)ether	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
bis (2-chloroisopropyl) ether	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Bis(2-ethylhexyl) phthalate	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
4-Bromophenyl phenyl ether	<5.0	*-	5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Butyl benzyl phthalate	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
2-Chloronaphthalene	<5.0	*- *1	5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
4-Chlorophenyl phenyl ether	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Chrysene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Dibenz(a,h)anthracene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
1,2-Dichlorobenzene	<5.0	*1	5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
1,3-Dichlorobenzene	<5.0	*- *1	5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
1,4-Dichlorobenzene	<5.0	*- *1	5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
3,3'-Dichlorobenzidine	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Diethyl phthalate	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Dimethyl phthalate	<4.0		4.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Di-n-butyl phthalate	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
2,4-Dinitrotoluene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
2,6-Dinitrotoluene	<5.0	*-	5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Di-n-octyl phthalate	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
1,2-Diphenylhydrazine	<5.0	*1	5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Fluoranthene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Fluorene	<5.0	*-	5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Hexachlorobenzene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Hexachlorobutadiene	<2.0		2.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Hexachlorocyclopentadiene	<10	*1	10	ug/L		05/18/23 13:23	05/19/23 20:44	1
Hexachloroethane	<4.0	*-	4.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Indeno[1,2,3-cd]pyrene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Isophorone	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Naphthalene	<4.0		4.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Nitrobenzene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
N-Nitrosodimethylamine	<10	*1	10	ug/L		05/18/23 13:23	05/19/23 20:44	1
N-Nitrosodi-n-propylamine	<10		10	ug/L		05/18/23 13:23	05/19/23 20:44	1
N-Nitrosodiphenylamine	<10		10	ug/L		05/18/23 13:23	05/19/23 20:44	1
Phenanthrene	<5.0	*-	5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Pyrene	<5.0	*-	5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
1,2,4-Trichlorobenzene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
2-Chlorophenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
2,4-Dichlorophenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
2,4-Dimethylphenol	<5.0	*-	5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1

Eurofins Arkansas

Client Sample Results

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Client Sample ID: Bad Boy 2

Lab Sample ID: 192-1927-2

Date Collected: 05/17/23 10:27

Matrix: Water

Date Received: 05/17/23 14:48

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	<10		10	ug/L		05/18/23 13:23	05/19/23 20:44	1
2,4-Dinitrophenol	<10		10	ug/L		05/18/23 13:23	05/19/23 20:44	1
2-Nitrophenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
4-Nitrophenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
4-Chloro-3-methylphenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Pentachlorophenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
Phenol	<4.0		4.0	ug/L		05/18/23 13:23	05/19/23 20:44	1
2,4,6-Trichlorophenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	46		33 - 96	05/18/23 13:23	05/19/23 20:44	1
Nitrobenzene-d5 (Surr)	54		54 - 111	05/18/23 13:23	05/19/23 20:44	1
p-Terphenyl-d14 (Surr)	51		46 - 121	05/18/23 13:23	05/19/23 20:44	1
2,4,6-Tribromophenol (Surr)	53		35 - 125	05/18/23 13:23	05/19/23 20:44	1
2-Fluorobiphenyl (Surr)	51		49 - 108	05/18/23 13:23	05/19/23 20:44	1

Surrogate Summary

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DBFM (90-109)	TOL (87-112)	BFB (86-112)
192-1659-A-1-A MS	Matrix Spike	107	101	110
192-1659-A-1-A MSD	Matrix Spike Duplicate	103	126 S1+	105
192-1927-1	Bad Boy 1	103	94	90
192-1927-2	Bad Boy 2	100	95	89
LCS 192-2562/13	Lab Control Sample	99	103	105
MB 192-2562/15	Method Blank	104	94	93

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)				
		2FP (33-96)	NBZ (54-111)	TPHd14 (46-121)	TBP (35-125)	FBP (49-108)
192-1927-1	Bad Boy 1	40	51 S1-	52	37	50
192-1927-2	Bad Boy 2	46	54	51	53	51
LCS 192-2589/2-A	Lab Control Sample	72	87	89	88	77
LCS 192-2589/3-A	Lab Control Sample Dup	55	63	61	62	55
MB 192-2589/1-A	Method Blank	54	65	74	51	61

Surrogate Legend

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)				
		2FP (33-96)	NBZ (54-111)	TPHd14 (46-121)	TBP (35-125)	FBP (49-108)
192-1860-B-1-I MS	Matrix Spike	45	52 S1-	58	65	50
192-1860-B-1-J MSD	Matrix Spike Duplicate	53	65	68	71	57

Surrogate Legend

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

QC Sample Results

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 192-2562/15
Matrix: Water
Analysis Batch: 2562

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<5.0		5.0	ug/L			05/17/23 19:26	1
Bromodichloromethane	<5.0		5.0	ug/L			05/17/23 19:26	1
Bromoform	<5.0		5.0	ug/L			05/17/23 19:26	1
Bromomethane	<5.0		5.0	ug/L			05/17/23 19:26	1
Carbon tetrachloride	<2.0		2.0	ug/L			05/17/23 19:26	1
Chlorobenzene	<5.0		5.0	ug/L			05/17/23 19:26	1
Chloroethane	<5.0		5.0	ug/L			05/17/23 19:26	1
2-Chloroethyl vinyl ether	<10		10	ug/L			05/17/23 19:26	1
Chloroform	<4.0		4.0	ug/L			05/17/23 19:26	1
Chloromethane	<5.0		5.0	ug/L			05/17/23 19:26	1
Dibromochloromethane	<5.0		5.0	ug/L			05/17/23 19:26	1
1,2-Dichlorobenzene	<5.0		5.0	ug/L			05/17/23 19:26	1
1,4-Dichlorobenzene	<5.0		5.0	ug/L			05/17/23 19:26	1
1,3-Dichlorobenzene	<5.0		5.0	ug/L			05/17/23 19:26	1
1,1-Dichloroethane	<5.0		5.0	ug/L			05/17/23 19:26	1
1,2-Dichloroethane	<5.0		5.0	ug/L			05/17/23 19:26	1
1,1-Dichloroethene	<5.0		5.0	ug/L			05/17/23 19:26	1
trans-1,2-Dichloroethene	<2.0		2.0	ug/L			05/17/23 19:26	1
1,2-Dichloropropane	<5.0		5.0	ug/L			05/17/23 19:26	1
cis-1,3-Dichloropropene	<5.0		5.0	ug/L			05/17/23 19:26	1
trans-1,3-Dichloropropene	<5.0		5.0	ug/L			05/17/23 19:26	1
Ethylbenzene	<5.0		5.0	ug/L			05/17/23 19:26	1
Methylene Chloride	<5.0		5.0	ug/L			05/17/23 19:26	1
1,1,2,2-Tetrachloroethane	<5.0		5.0	ug/L			05/17/23 19:26	1
Tetrachloroethene	<5.0		5.0	ug/L			05/17/23 19:26	1
Toluene	<5.0		5.0	ug/L			05/17/23 19:26	1
1,1,1-Trichloroethane	<5.0		5.0	ug/L			05/17/23 19:26	1
1,1,2-Trichloroethane	<5.0		5.0	ug/L			05/17/23 19:26	1
Trichloroethene	<5.0		5.0	ug/L			05/17/23 19:26	1
Vinyl chloride	<2.0		2.0	ug/L			05/17/23 19:26	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	104		90 - 109		05/17/23 19:26	1
Toluene-d8 (Surr)	94		87 - 112		05/17/23 19:26	1
4-Bromofluorobenzene (Surr)	93		86 - 112		05/17/23 19:26	1

Lab Sample ID: LCS 192-2562/13
Matrix: Water
Analysis Batch: 2562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromodichloromethane	50.2	45.4		ug/L		91	70 - 130
Bromoform	49.9	50.7		ug/L		102	70 - 130
Bromomethane	50.8	43.0		ug/L		85	70 - 130
Carbon tetrachloride	50.0	45.0		ug/L		90	70 - 130
Chlorobenzene	50.0	48.2		ug/L		96	70 - 130
Chloroethane	51.5	37.8		ug/L		73	70 - 130

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QC Sample Results

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 192-2562/13
Matrix: Water
Analysis Batch: 2562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chloroethyl vinyl ether	101	102		ug/L		101	70 - 130
Chloroform	50.2	43.1		ug/L		86	70 - 130
Chloromethane	49.5	40.4		ug/L		82	70 - 130
Dibromochloromethane	50.7	48.0		ug/L		95	70 - 130
1,2-Dichlorobenzene	50.0	50.2		ug/L		100	70 - 130
1,4-Dichlorobenzene	50.2	49.6		ug/L		99	70 - 130
1,3-Dichlorobenzene	50.1	50.1		ug/L		100	70 - 130
1,1-Dichloroethane	50.0	52.2		ug/L		104	70 - 130
1,2-Dichloroethane	50.0	45.9		ug/L		92	70 - 130
1,1-Dichloroethene	50.0	57.3		ug/L		115	70 - 130
trans-1,2-Dichloroethene	49.9	55.0		ug/L		110	70 - 130
1,2-Dichloropropane	50.0	40.5		ug/L		81	70 - 130
cis-1,3-Dichloropropene	50.1	47.7		ug/L		95	70 - 130
trans-1,3-Dichloropropene	50.1	49.2		ug/L		98	70 - 130
Ethylbenzene	50.0	51.4		ug/L		103	70 - 130
Methylene Chloride	50.1	55.7		ug/L		111	70 - 130
1,1,2,2-Tetrachloroethane	50.5	51.6		ug/L		102	70 - 130
Tetrachloroethene	50.3	47.4		ug/L		94	70 - 130
Toluene	49.9	48.7		ug/L		98	70 - 130
1,1,1-Trichloroethane	50.2	48.9		ug/L		97	70 - 130
1,1,2-Trichloroethane	49.8	49.4		ug/L		99	70 - 130
Trichloroethene	49.7	38.4		ug/L		77	70 - 130
Vinyl chloride	50.4	37.3		ug/L		74	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	99		90 - 109
Toluene-d8 (Surr)	103		87 - 112
4-Bromofluorobenzene (Surr)	105		86 - 112

Lab Sample ID: 192-1659-A-1-A MS
Matrix: Water
Analysis Batch: 2562

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<5.0		49.8	48.1		ug/L		97	37 - 151
Bromodichloromethane	<5.0		50.2	48.7		ug/L		97	35 - 155
Bromoform	<5.0		49.9	55.3		ug/L		111	45 - 169
Bromomethane	<5.0		50.8	44.3		ug/L		87	1 - 242
Carbon tetrachloride	<2.0		50.0	46.9		ug/L		94	70 - 140
Chlorobenzene	<5.0		50.0	49.1		ug/L		98	37 - 160
Chloroethane	<5.0		51.5	49.2		ug/L		96	14 - 230
2-Chloroethyl vinyl ether	<10		101	123		ug/L		122	1 - 305
Chloroform	<4.0		50.2	46.7		ug/L		93	51 - 138
Chloromethane	<5.0		49.5	42.0		ug/L		85	1 - 273
Dibromochloromethane	<5.0		50.7	49.2		ug/L		97	53 - 149
1,2-Dichlorobenzene	<5.0		50.0	49.5		ug/L		99	18 - 190
1,4-Dichlorobenzene	<5.0		50.2	48.7		ug/L		97	18 - 190
1,3-Dichlorobenzene	<5.0		50.1	49.4		ug/L		99	59 - 156

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QC Sample Results

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 192-1659-A-1-A MS

Matrix: Water

Analysis Batch: 2562

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	<5.0		50.0	56.2		ug/L		112	59 - 155
1,2-Dichloroethane	<5.0		50.0	47.6		ug/L		95	49 - 155
1,1-Dichloroethene	<5.0		50.0	60.7		ug/L		121	1 - 234
trans-1,2-Dichloroethene	<2.0		49.9	58.0		ug/L		116	54 - 156
1,2-Dichloropropane	<5.0		50.0	49.9		ug/L		100	1 - 210
cis-1,3-Dichloropropene	<5.0		50.1	44.3		ug/L		88	1 - 227
trans-1,3-Dichloropropene	<5.0		50.1	40.9		ug/L		82	17 - 183
Ethylbenzene	<5.0		50.0	51.5		ug/L		103	37 - 162
Methylene Chloride	<5.0		50.1	61.7		ug/L		123	1 - 221
1,1,2,2-Tetrachloroethane	<5.0		50.5	54.6		ug/L		108	46 - 157
Tetrachloroethene	<5.0		50.3	48.0		ug/L		95	64 - 148
Toluene	<5.0		49.9	41.6		ug/L		84	47 - 150
1,1,1-Trichloroethane	<5.0		50.2	52.4		ug/L		104	52 - 162
1,1,2-Trichloroethane	<5.0		49.8	43.8		ug/L		88	52 - 150
Trichloroethene	<5.0		49.7	46.5		ug/L		94	70 - 157
Vinyl chloride	<2.0		50.4	47.5		ug/L		94	1 - 251

Surrogate	MS %Recovery	MS Qualifier	MS Limits
Dibromofluoromethane (Surr)	107		90 - 109
Toluene-d8 (Surr)	101		87 - 112
4-Bromofluorobenzene (Surr)	110		86 - 112

Lab Sample ID: 192-1659-A-1-A MSD

Matrix: Water

Analysis Batch: 2562

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<5.0		49.8	47.3		ug/L		95	37 - 151	2	61
Bromodichloromethane	<5.0		50.2	48.3		ug/L		96	35 - 155	1	56
Bromoform	<5.0		49.9	56.0		ug/L		112	45 - 169	1	42
Bromomethane	<5.0		50.8	51.8		ug/L		102	1 - 242	16	61
Carbon tetrachloride	<2.0		50.0	45.5		ug/L		91	70 - 140	3	41
Chlorobenzene	<5.0		50.0	49.0		ug/L		98	37 - 160	0	53
Chloroethane	<5.0		51.5	42.0		ug/L		82	14 - 230	16	78
2-Chloroethyl vinyl ether	<10		101	122		ug/L		121	1 - 305	1	71
Chloroform	<4.0		50.2	46.0		ug/L		92	51 - 138	2	54
Chloromethane	<5.0		49.5	41.6		ug/L		84	1 - 273	1	60
Dibromochloromethane	<5.0		50.7	49.1		ug/L		97	53 - 149	0	50
1,2-Dichlorobenzene	<5.0		50.0	50.9		ug/L		102	18 - 190	3	57
1,4-Dichlorobenzene	<5.0		50.2	50.3		ug/L		100	18 - 190	3	57
1,3-Dichlorobenzene	<5.0		50.1	50.9		ug/L		102	59 - 156	3	43
1,1-Dichloroethane	<5.0		50.0	55.0		ug/L		110	59 - 155	2	40
1,2-Dichloroethane	<5.0		50.0	47.4		ug/L		95	49 - 155	0	49
1,1-Dichloroethene	<5.0		50.0	59.0		ug/L		118	1 - 234	3	32
trans-1,2-Dichloroethene	<2.0		49.9	57.3		ug/L		115	54 - 156	1	45
1,2-Dichloropropane	<5.0		50.0	49.5		ug/L		99	1 - 210	1	55
cis-1,3-Dichloropropene	<5.0		50.1	46.7		ug/L		93	1 - 227	5	58
trans-1,3-Dichloropropene	<5.0		50.1	43.8		ug/L		87	17 - 183	7	86

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QC Sample Results

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 192-1659-A-1-A MSD
Matrix: Water
Analysis Batch: 2562

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	<5.0		50.0	51.5		ug/L		103	37 - 162	0	63
Methylene Chloride	<5.0		50.1	60.5		ug/L		121	1 - 221	2	28
1,1,2,2-Tetrachloroethane	<5.0		50.5	52.5		ug/L		104	46 - 157	4	61
Tetrachloroethene	<5.0		50.3	48.6		ug/L		97	64 - 148	1	39
Toluene	<5.0		49.9	48.8		ug/L		98	47 - 150	16	41
1,1,1-Trichloroethane	<5.0		50.2	50.5		ug/L		100	52 - 162	4	36
1,1,2-Trichloroethane	<5.0		49.8	40.8		ug/L		82	52 - 150	7	45
Trichloroethene	<5.0		49.7	46.7		ug/L		94	70 - 157	0	48
Vinyl chloride	<2.0		50.4	48.8		ug/L		97	1 - 251	3	66

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
Dibromofluoromethane (Surr)	103		90 - 109
Toluene-d8 (Surr)	126	S1+	87 - 112
4-Bromofluorobenzene (Surr)	105		86 - 112

Lab Sample ID: MB 192-2563/15
Matrix: Water
Analysis Batch: 2563

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	<20		20	ug/L			05/17/23 19:26	1
Acrylonitrile	<10		10	ug/L			05/17/23 19:26	1

Lab Sample ID: LCS 192-2563/13
Matrix: Water
Analysis Batch: 2563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acrolein	251	472	*+	ug/L		188	70 - 130
Acrylonitrile	251	269		ug/L		107	70 - 130

Lab Sample ID: 192-1659-A-1-A MS
Matrix: Water
Analysis Batch: 2563

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acrolein	<20	*+ F1	251	500	F1	ug/L		199	40 - 160
Acrylonitrile	<10		251	307		ug/L		122	40 - 160

Lab Sample ID: 192-1659-A-1-A MSD
Matrix: Water
Analysis Batch: 2563

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acrolein	<20	*+ F1	251	498	F1	ug/L		199	40 - 160	0	60
Acrylonitrile	<10		251	304		ug/L		121	40 - 160	1	60

QC Sample Results

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 192-2589/1-A
Matrix: Water
Analysis Batch: 2746

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2589

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Acenaphthene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Acenaphthylene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Anthracene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Benzidine	<50		50	ug/L		05/18/23 13:23	05/19/23 14:21	1
Benzo[a]anthracene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Benzo[a]pyrene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Benzo[b]fluoranthene	<10		10	ug/L		05/18/23 13:23	05/19/23 14:21	1
Benzo[g,h,i]perylene	<10		10	ug/L		05/18/23 13:23	05/19/23 14:21	1
Benzo[k]fluoranthene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Bis(2-chloroethoxy)methane	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Bis(2-chloroethyl)ether	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
bis (2-chloroisopropyl) ether	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Bis(2-ethylhexyl) phthalate	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
4-Bromophenyl phenyl ether	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Butyl benzyl phthalate	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
2-Chloronaphthalene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
4-Chlorophenyl phenyl ether	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Chrysene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Dibenz(a,h)anthracene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
1,2-Dichlorobenzene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
1,3-Dichlorobenzene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
1,4-Dichlorobenzene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
3,3'-Dichlorobenzidine	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Diethyl phthalate	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Dimethyl phthalate	<4.0		4.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Di-n-butyl phthalate	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
2,4-Dinitrotoluene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
2,6-Dinitrotoluene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Di-n-octyl phthalate	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
1,2-Diphenylhydrazine	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Fluoranthene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Fluorene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Hexachlorobenzene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Hexachlorobutadiene	<2.0		2.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Hexachlorocyclopentadiene	<10		10	ug/L		05/18/23 13:23	05/19/23 14:21	1
Hexachloroethane	<4.0		4.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Indeno[1,2,3-cd]pyrene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Isophorone	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Naphthalene	<4.0		4.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Nitrobenzene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
N-Nitrosodimethylamine	<10		10	ug/L		05/18/23 13:23	05/19/23 14:21	1
N-Nitrosodi-n-propylamine	<10		10	ug/L		05/18/23 13:23	05/19/23 14:21	1
N-Nitrosodiphenylamine	<10		10	ug/L		05/18/23 13:23	05/19/23 14:21	1
Phenanthrene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Pyrene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
1,2,4-Trichlorobenzene	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
2-Chlorophenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
2,4-Dichlorophenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1

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QC Sample Results

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 192-2589/1-A
Matrix: Water
Analysis Batch: 2746

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2589

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
4,6-Dinitro-2-methylphenol	<10		10	ug/L		05/18/23 13:23	05/19/23 14:21	1
2,4-Dinitrophenol	<10		10	ug/L		05/18/23 13:23	05/19/23 14:21	1
2-Nitrophenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
4-Nitrophenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
4-Chloro-3-methylphenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Pentachlorophenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
Phenol	<4.0		4.0	ug/L		05/18/23 13:23	05/19/23 14:21	1
2,4,6-Trichlorophenol	<5.0		5.0	ug/L		05/18/23 13:23	05/19/23 14:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	54		33 - 96	05/18/23 13:23	05/19/23 14:21	1
Nitrobenzene-d5 (Surr)	65		54 - 111	05/18/23 13:23	05/19/23 14:21	1
p-Terphenyl-d14 (Surr)	74		46 - 121	05/18/23 13:23	05/19/23 14:21	1
2,4,6-Tribromophenol (Surr)	51		35 - 125	05/18/23 13:23	05/19/23 14:21	1
2-Fluorobiphenyl (Surr)	61		49 - 108	05/18/23 13:23	05/19/23 14:21	1

Lab Sample ID: LCS 192-2589/2-A
Matrix: Water
Analysis Batch: 2746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2589

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	20.0	15.4		ug/L		77	60 - 132
Acenaphthylene	20.0	16.4		ug/L		82	54 - 126
Anthracene	20.0	16.6		ug/L		83	43 - 120
Benzo[a]anthracene	20.0	18.0		ug/L		90	42 - 133
Benzo[a]pyrene	20.0	18.1		ug/L		90	32 - 148
Benzo[b]fluoranthene	20.0	19.8		ug/L		99	42 - 140
Benzo[g,h,i]perylene	20.0	16.8		ug/L		84	1 - 195
Benzo[k]fluoranthene	20.0	17.0		ug/L		85	25 - 146
Bis(2-chloroethoxy)methane	20.0	19.0		ug/L		95	49 - 165
Bis(2-chloroethyl)ether	20.0	16.8		ug/L		84	43 - 126
bis (2-chloroisopropyl) ether	20.0	23.2		ug/L		116	63 - 139
Bis(2-ethylhexyl) phthalate	20.0	23.9		ug/L		120	29 - 137
4-Bromophenyl phenyl ether	20.0	17.7		ug/L		88	65 - 120
Butyl benzyl phthalate	20.0	18.0		ug/L		90	1 - 140
2-Chloronaphthalene	20.0	15.8		ug/L		79	65 - 120
4-Chlorophenyl phenyl ether	20.0	16.9		ug/L		85	38 - 145
Chrysene	20.0	17.8		ug/L		89	44 - 140
Dibenz(a,h)anthracene	20.0	17.6		ug/L		88	1 - 200
1,2-Dichlorobenzene	20.0	16.0		ug/L		80	52 - 101
1,3-Dichlorobenzene	20.0	15.1		ug/L		75	56 - 94
1,4-Dichlorobenzene	20.0	14.2		ug/L		71	52 - 97
3,3'-Dichlorobenzidine	20.0	11.6		ug/L		58	8 - 213
Diethyl phthalate	20.0	16.1		ug/L		81	1 - 120
Dimethyl phthalate	20.0	10.1		ug/L		51	1 - 120
Di-n-butyl phthalate	20.0	19.0		ug/L		95	8 - 120
2,4-Dinitrotoluene	20.0	18.3		ug/L		91	48 - 127

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QC Sample Results

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 192-2589/2-A
Matrix: Water
Analysis Batch: 2746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2589

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,6-Dinitrotoluene	20.0	15.9		ug/L		80	68 - 137
Di-n-octyl phthalate	20.0	23.9		ug/L		120	19 - 132
1,2-Diphenylhydrazine	20.0	17.2		ug/L		86	52 - 114
Fluoranthene	20.0	16.7		ug/L		83	43 - 121
Fluorene	20.0	16.5		ug/L		83	70 - 120
Hexachlorobenzene	20.0	17.3		ug/L		87	8 - 142
Hexachlorobutadiene	20.0	16.4		ug/L		82	38 - 120
Hexachlorocyclopentadiene	20.0	14.2		ug/L		71	42 - 112
Hexachloroethane	20.0	15.5		ug/L		77	55 - 120
Indeno[1,2,3-cd]pyrene	20.0	17.1		ug/L		86	1 - 151
Isophorone	20.0	18.3		ug/L		91	47 - 180
Naphthalene	20.0	15.8		ug/L		79	36 - 120
Nitrobenzene	20.0	17.5		ug/L		87	54 - 158
N-Nitrosodimethylamine	20.0	9.48	J	ug/L		47	31 - 67
N-Nitrosodi-n-propylamine	20.0	20.4		ug/L		102	14 - 198
N-Nitrosodiphenylamine	20.0	15.0		ug/L		75	49 - 111
Phenanthrene	20.0	15.8		ug/L		79	65 - 120
Pyrene	20.0	17.2		ug/L		86	70 - 120
1,2,4-Trichlorobenzene	20.0	17.3		ug/L		87	57 - 130
2-Chlorophenol	20.0	17.7		ug/L		89	36 - 120
2,4-Dichlorophenol	20.0	19.1		ug/L		95	53 - 122
2,4-Dimethylphenol	20.0	8.41		ug/L		42	42 - 120
4,6-Dinitro-2-methylphenol	20.0	13.6		ug/L		68	53 - 130
2,4-Dinitrophenol	20.0	6.89	J	ug/L		34	1 - 173
2-Nitrophenol	20.0	17.4		ug/L		87	45 - 167
4-Nitrophenol	20.0	18.3		ug/L		91	13 - 129
4-Chloro-3-methylphenol	20.0	18.0		ug/L		90	41 - 128
Pentachlorophenol	20.0	11.5		ug/L		57	38 - 152
Phenol	20.0	13.8		ug/L		69	17 - 120
2,4,6-Trichlorophenol	20.0	18.6		ug/L		93	52 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	72		33 - 96
Nitrobenzene-d5 (Surr)	87		54 - 111
p-Terphenyl-d14 (Surr)	89		46 - 121
2,4,6-Tribromophenol (Surr)	88		35 - 125
2-Fluorobiphenyl (Surr)	77		49 - 108

Lab Sample ID: LCSD 192-2589/3-A
Matrix: Water
Analysis Batch: 2746

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2589

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	20.0	10.9	*-	ug/L		54	60 - 132	35	48
Acenaphthylene	20.0	11.3		ug/L		56	54 - 126	37	74
Anthracene	20.0	11.4		ug/L		57	43 - 120	37	66
Benzo[a]anthracene	20.0	12.8		ug/L		64	42 - 133	34	53
Benzo[a]pyrene	20.0	13.1		ug/L		66	32 - 148	32	72

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QC Sample Results

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 192-2589/3-A
Matrix: Water
Analysis Batch: 2746

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2589

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Benzo[b]fluoranthene	20.0	14.4		ug/L		72	42 - 140	31	71	
Benzo[g,h,i]perylene	20.0	10.6		ug/L		53	1 - 195	45	97	
Benzo[k]fluoranthene	20.0	11.0		ug/L		55	25 - 146	43	63	
Bis(2-chloroethoxy)methane	20.0	13.3		ug/L		66	49 - 165	35	54	
Bis(2-chloroethyl)ether	20.0	11.8		ug/L		59	43 - 126	35	108	
bis (2-chloroisopropyl) ether	20.0	15.0		ug/L		75	63 - 139	43	76	
Bis(2-ethylhexyl) phthalate	20.0	16.7		ug/L		83	29 - 137	36	82	
4-Bromophenyl phenyl ether	20.0	12.6	*-	ug/L		63	65 - 120	34	43	
Butyl benzyl phthalate	20.0	11.9		ug/L		59	1 - 140	41	60	
2-Chloronaphthalene	20.0	11.7	*- *1	ug/L		58	65 - 120	30	24	
4-Chlorophenyl phenyl ether	20.0	12.4		ug/L		62	38 - 145	31	61	
Chrysene	20.0	11.4		ug/L		57	44 - 140	43	87	
Dibenz(a,h)anthracene	20.0	12.4		ug/L		62	1 - 200	35	126	
1,2-Dichlorobenzene	20.0	10.8	*1	ug/L		54	52 - 101	39	21	
1,3-Dichlorobenzene	20.0	10.7	*- *1	ug/L		53	56 - 94	34	23	
1,4-Dichlorobenzene	20.0	10.1	*- *1	ug/L		51	52 - 97	34	21	
3,3'-Dichlorobenzidine	20.0	8.68		ug/L		43	8 - 213	29	108	
Diethyl phthalate	20.0	11.0		ug/L		55	1 - 120	38	100	
Dimethyl phthalate	20.0	7.73		ug/L		39	1 - 120	27	183	
Di-n-butyl phthalate	20.0	13.6		ug/L		68	8 - 120	33	47	
2,4-Dinitrotoluene	20.0	13.3		ug/L		66	48 - 127	32	42	
2,6-Dinitrotoluene	20.0	12.4	*-	ug/L		62	68 - 137	25	48	
Di-n-octyl phthalate	20.0	17.2		ug/L		86	19 - 132	33	69	
1,2-Diphenylhydrazine	20.0	11.5	*1	ug/L		57	52 - 114	40	25	
Fluoranthene	20.0	12.1		ug/L		61	43 - 121	32	66	
Fluorene	20.0	12.2	*-	ug/L		61	70 - 120	30	38	
Hexachlorobenzene	20.0	12.9		ug/L		64	8 - 142	29	55	
Hexachlorobutadiene	20.0	12.6		ug/L		63	38 - 120	26	62	
Hexachlorocyclopentadiene	20.0	9.93	J *1	ug/L		50	42 - 112	35	30	
Hexachloroethane	20.0	10.5	*-	ug/L		52	55 - 120	38	52	
Indeno[1,2,3-cd]pyrene	20.0	11.8		ug/L		59	1 - 151	37	99	
Isophorone	20.0	12.5		ug/L		62	47 - 180	38	93	
Naphthalene	20.0	11.3		ug/L		57	36 - 120	33	65	
Nitrobenzene	20.0	12.8		ug/L		64	54 - 158	31	62	
N-Nitrosodimethylamine	20.0	6.72	J *1	ug/L		34	31 - 67	34	24	
N-Nitrosodi-n-propylamine	20.0	13.8		ug/L		69	14 - 198	38	87	
N-Nitrosodiphenylamine	20.0	10.9		ug/L		55	49 - 111	31	59	
Phenanthrene	20.0	11.2	*-	ug/L		56	65 - 120	34	39	
Pyrene	20.0	11.9	*-	ug/L		59	70 - 120	36	49	
1,2,4-Trichlorobenzene	20.0	12.2		ug/L		61	57 - 130	34	50	
2-Chlorophenol	20.0	11.8		ug/L		59	36 - 120	40	61	
2,4-Dichlorophenol	20.0	14.2		ug/L		71	53 - 122	29	50	
2,4-Dimethylphenol	20.0	6.19	*-	ug/L		31	42 - 120	30	58	
4,6-Dinitro-2-methylphenol	20.0	11.9		ug/L		60	53 - 130	13	203	
2,4-Dinitrophenol	20.0	9.02	J	ug/L		45	1 - 173	27	132	
2-Nitrophenol	20.0	14.3		ug/L		71	45 - 167	20	55	
4-Nitrophenol	20.0	14.1		ug/L		71	13 - 129	25	131	
4-Chloro-3-methylphenol	20.0	13.6		ug/L		68	41 - 128	28	73	
Pentachlorophenol	20.0	12.4		ug/L		62	38 - 152	8	86	

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QC Sample Results

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 192-2589/3-A
Matrix: Water
Analysis Batch: 2746

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2589

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenol	20.0	9.38		ug/L		47	17 - 120	38	64
2,4,6-Trichlorophenol	20.0	13.2		ug/L		66	52 - 129	34	58
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
2-Fluorophenol (Surr)	55		33 - 96						
Nitrobenzene-d5 (Surr)	63		54 - 111						
p-Terphenyl-d14 (Surr)	61		46 - 121						
2,4,6-Tribromophenol (Surr)	62		35 - 125						
2-Fluorobiphenyl (Surr)	55		49 - 108						

Lab Sample ID: 192-1860-B-1-I MS
Matrix: Water
Analysis Batch: 2746

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 2589

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	<50	*-	200	99.3		ug/L		50	47 - 145
Acenaphthylene	<50		200	101		ug/L		51	33 - 145
Anthracene	<50		200	102		ug/L		51	27 - 133
Benzo[a]anthracene	<50		200	118		ug/L		59	33 - 143
Benzo[a]pyrene	<50		200	132		ug/L		66	17 - 163
Benzo[b]fluoranthene	<100		200	139		ug/L		69	24 - 159
Benzo[g,h,i]perylene	<100		200	104		ug/L		52	1 - 219
Benzo[k]fluoranthene	<50		200	105		ug/L		52	11 - 162
Bis(2-chloroethoxy)methane	<50		200	115		ug/L		57	33 - 184
Bis(2-chloroethyl)ether	<50		200	107		ug/L		54	12 - 158
bis (2-chloroisopropyl) ether	<50		200	134		ug/L		67	36 - 166
Bis(2-ethylhexyl) phthalate	<50		200	158		ug/L		79	8 - 158
4-Bromophenyl phenyl ether	<50	*-	200	121		ug/L		60	53 - 127
Butyl benzyl phthalate	<50		200	123		ug/L		61	1 - 152
2-Chloronaphthalene	<50	*- *1 F1	200	107	F1	ug/L		54	60 - 120
4-Chlorophenyl phenyl ether	<50		200	107		ug/L		53	25 - 158
Chrysene	<50		200	109		ug/L		54	17 - 168
Dibenz(a,h)anthracene	<50		200	117		ug/L		58	1 - 227
1,2-Dichlorobenzene	<50	*1 F1	200	100	F1	ug/L		50	57 - 90
1,3-Dichlorobenzene	<50	*- *1 F1	200	99.9	F1	ug/L		50	55 - 87
1,4-Dichlorobenzene	<50	*- *1 F1	200	92.4	F1	ug/L		46	57 - 86
3,3'-Dichlorobenzidine	<50		200	93.0		ug/L		47	1 - 262
Diethyl phthalate	<50		200	96.4		ug/L		48	1 - 120
Dimethyl phthalate	<40		200	67.3		ug/L		34	1 - 120
Di-n-butyl phthalate	<50		200	124		ug/L		62	1 - 120
2,4-Dinitrotoluene	<50		200	121		ug/L		60	39 - 139
2,6-Dinitrotoluene	<50	*-	200	117		ug/L		59	50 - 158
Di-n-octyl phthalate	<50		200	160		ug/L		80	4 - 146
1,2-Diphenylhydrazine	<50	*1	200	104		ug/L		52	32 - 136
Fluoranthene	<50		200	107		ug/L		54	26 - 137
Fluorene	<50	*- F1	200	107	F1	ug/L		53	59 - 121
Hexachlorobenzene	<50		200	111		ug/L		56	1 - 152
Hexachlorobutadiene	<20		200	115		ug/L		57	24 - 120

QC Sample Results

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 192-1860-B-1-I MS
Matrix: Water
Analysis Batch: 2746

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 2589

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Hexachlorocyclopentadiene	<100	*1	200	<100		ug/L		48	1 - 120
Hexachloroethane	<40	*-	200	94.1		ug/L		47	40 - 120
Indeno[1,2,3-cd]pyrene	<50		200	114		ug/L		57	1 - 171
Isophorone	<50		200	104		ug/L		52	21 - 196
Naphthalene	<40		200	103		ug/L		51	21 - 133
Nitrobenzene	<50		200	108		ug/L		54	35 - 180
N-Nitrosodimethylamine	<100	*1 F1	200	<100	F1	ug/L		30	34 - 58
N-Nitrosodi-n-propylamine	<100		200	120		ug/L		60	1 - 230
N-Nitrosodiphenylamine	<100		200	104		ug/L		52	29 - 125
Phenanthrene	<50	*- F1	200	97.8	F1	ug/L		49	54 - 120
Pyrene	<50	*-	200	111		ug/L		56	52 - 120
1,2,4-Trichlorobenzene	<50		200	112		ug/L		56	44 - 142
2-Chlorophenol	<50		200	112		ug/L		56	23 - 134
2,4-Dichlorophenol	<50		200	122		ug/L		61	39 - 135
2,4-Dimethylphenol	<50	*-	200	105		ug/L		52	32 - 120
4,6-Dinitro-2-methylphenol	<100		200	109		ug/L		54	1 - 181
2,4-Dinitrophenol	<100		200	<100		ug/L		41	1 - 191
2-Nitrophenol	<50		200	119		ug/L		60	29 - 182
4-Nitrophenol	<50		200	124		ug/L		62	1 - 132
4-Chloro-3-methylphenol	<50		200	122		ug/L		61	22 - 147
Pentachlorophenol	<50		200	121		ug/L		60	14 - 176
Phenol	<40		200	80.8		ug/L		40	5 - 120
2,4,6-Trichlorophenol	<50		200	119		ug/L		59	37 - 144

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorophenol (Surr)	45		33 - 96
Nitrobenzene-d5 (Surr)	52	S1-	54 - 111
p-Terphenyl-d14 (Surr)	58		46 - 121
2,4,6-Tribromophenol (Surr)	65		35 - 125
2-Fluorobiphenyl (Surr)	50		49 - 108

Lab Sample ID: 192-1860-B-1-J MSD
Matrix: Water
Analysis Batch: 2746

Client Sample ID: Matrix Spike Duplicate
Prep Type: TCLP
Prep Batch: 2589

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Acenaphthene	<50	*-	200	122		ug/L		61	47 - 145	21		48
Acenaphthylene	<50		200	124		ug/L		62	33 - 145	20		74
Anthracene	<50		200	124		ug/L		62	27 - 133	20		66
Benzo[a]anthracene	<50		200	148		ug/L		74	33 - 143	22		53
Benzo[a]pyrene	<50		200	157		ug/L		79	17 - 163	17		72
Benzo[b]fluoranthene	<100		200	137		ug/L		68	24 - 159	1		71
Benzo[g,h,i]perylene	<100		200	137		ug/L		69	1 - 219	28		97
Benzo[k]fluoranthene	<50		200	142		ug/L		71	11 - 162	30		63
Bis(2-chloroethoxy)methane	<50		200	133		ug/L		66	33 - 184	15		54
Bis(2-chloroethyl)ether	<50		200	129		ug/L		64	12 - 158	18		108
bis (2-chloroisopropyl) ether	<50		200	156		ug/L		78	36 - 166	15		76
Bis(2-ethylhexyl) phthalate	<50		200	197		ug/L		98	8 - 158	22		82

Eurofins Arkansas

QC Sample Results

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 192-1860-B-1-J MSD

Matrix: Water

Analysis Batch: 2746

Client Sample ID: Matrix Spike Duplicate

Prep Type: TCLP

Prep Batch: 2589

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
4-Bromophenyl phenyl ether	<50	*-	200	142		ug/L		71	53 - 127	16	43
Butyl benzyl phthalate	<50		200	146		ug/L		73	1 - 152	17	60
2-Chloronaphthalene	<50	*- *1 F1	200	122		ug/L		61	60 - 120	13	24
4-Chlorophenyl phenyl ether	<50		200	126		ug/L		63	25 - 158	17	61
Chrysene	<50		200	133		ug/L		66	17 - 168	20	87
Dibenz(a,h)anthracene	<50		200	142		ug/L		71	1 - 227	20	126
1,2-Dichlorobenzene	<50	*1 F1	200	121		ug/L		61	57 - 90	19	21
1,3-Dichlorobenzene	<50	*- *1 F1	200	118		ug/L		59	55 - 87	17	23
1,4-Dichlorobenzene	<50	*- *1 F1	200	107	F1	ug/L		54	57 - 86	15	21
3,3'-Dichlorobenzidine	<50		200	101		ug/L		50	1 - 262	8	108
Diethyl phthalate	<50		200	127		ug/L		64	1 - 120	28	100
Dimethyl phthalate	<40		200	80.7		ug/L		40	1 - 120	18	183
Di-n-butyl phthalate	<50		200	150		ug/L		75	1 - 120	19	47
2,4-Dinitrotoluene	<50		200	138		ug/L		69	39 - 139	13	42
2,6-Dinitrotoluene	<50	*-	200	138		ug/L		69	50 - 158	16	48
Di-n-octyl phthalate	<50		200	185		ug/L		92	4 - 146	15	69
1,2-Diphenylhydrazine	<50	*1	200	127		ug/L		64	32 - 136	20	25
Fluoranthene	<50		200	137		ug/L		68	26 - 137	24	66
Fluorene	<50	*- F1	200	120		ug/L		60	59 - 121	12	38
Hexachlorobenzene	<50		200	133		ug/L		66	1 - 152	18	55
Hexachlorobutadiene	<20		200	132		ug/L		66	24 - 120	14	62
Hexachlorocyclopentadiene	<100	*1	200	108		ug/L		54	1 - 120	12	30
Hexachloroethane	<40	*-	200	115		ug/L		58	40 - 120	20	52
Indeno[1,2,3-cd]pyrene	<50		200	139		ug/L		70	1 - 171	20	99
Isophorone	<50		200	131		ug/L		65	21 - 196	23	93
Naphthalene	<40		200	122		ug/L		61	21 - 133	17	65
Nitrobenzene	<50		200	129		ug/L		64	35 - 180	18	62
N-Nitrosodimethylamine	<100	*1 F1	200	<100		ug/L		36	34 - 58	20	24
N-Nitrosodi-n-propylamine	<100		200	141		ug/L		71	1 - 230	16	87
N-Nitrosodiphenylamine	<100		200	126		ug/L		63	29 - 125	19	59
Phenanthrene	<50	*- F1	200	121		ug/L		60	54 - 120	21	39
Pyrene	<50	*-	200	128		ug/L		64	52 - 120	14	49
1,2,4-Trichlorobenzene	<50		200	132		ug/L		66	44 - 142	16	50
2-Chlorophenol	<50		200	135		ug/L		67	23 - 134	18	61
2,4-Dichlorophenol	<50		200	149		ug/L		75	39 - 135	20	50
2,4-Dimethylphenol	<50	*-	200	111		ug/L		55	32 - 120	6	58
4,6-Dinitro-2-methylphenol	<100		200	126		ug/L		63	1 - 181	15	203
2,4-Dinitrophenol	<100		200	<100		ug/L		47	1 - 191	14	132
2-Nitrophenol	<50		200	138		ug/L		69	29 - 182	15	55
4-Nitrophenol	<50		200	148		ug/L		74	1 - 132	18	131
4-Chloro-3-methylphenol	<50		200	144		ug/L		72	22 - 147	17	73
Pentachlorophenol	<50		200	144		ug/L		72	14 - 176	18	86
Phenol	<40		200	98.8		ug/L		49	5 - 120	20	64
2,4,6-Trichlorophenol	<50		200	141		ug/L		71	37 - 144	17	58

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorophenol (Surr)	53		33 - 96
Nitrobenzene-d5 (Surr)	65		54 - 111

Eurofins Arkansas

QC Sample Results

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 192-1860-B-1-J MSD

Matrix: Water

Analysis Batch: 2746

Client Sample ID: Matrix Spike Duplicate

Prep Type: TCLP

Prep Batch: 2589

<u>Surrogate</u>	<u>MSD MSD</u>		<u>Limits</u>
	<u>%Recovery</u>	<u>Qualifier</u>	
<i>p</i> -Terphenyl- <i>d</i> 14 (Surr)	68		46 - 121
2,4,6-Tribromophenol (Surr)	71		35 - 125
2-Fluorobiphenyl (Surr)	57		49 - 108

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QC Association Summary

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

GC/MS VOA

Leach Batch: 667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-1659-A-1-A MS	Matrix Spike	Total/NA	Water	1311	
192-1659-A-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	1311	

Analysis Batch: 2562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-1927-1	Bad Boy 1	Total/NA	Water	624.1	
192-1927-2	Bad Boy 2	Total/NA	Water	624.1	
MB 192-2562/15	Method Blank	Total/NA	Water	624.1	
LCS 192-2562/13	Lab Control Sample	Total/NA	Water	624.1	
192-1659-A-1-A MS	Matrix Spike	Total/NA	Water	624.1	667
192-1659-A-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	624.1	667

Analysis Batch: 2563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-1927-1	Bad Boy 1	Total/NA	Water	624.1	
192-1927-2	Bad Boy 2	Total/NA	Water	624.1	
MB 192-2563/15	Method Blank	Total/NA	Water	624.1	
LCS 192-2563/13	Lab Control Sample	Total/NA	Water	624.1	
192-1659-A-1-A MS	Matrix Spike	Total/NA	Water	624.1	667
192-1659-A-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	624.1	667

GC/MS Semi VOA

Leach Batch: 2235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-1860-B-1-I MS	Matrix Spike	TCLP	Water	1311	
192-1860-B-1-J MSD	Matrix Spike Duplicate	TCLP	Water	1311	

Prep Batch: 2589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-1927-1	Bad Boy 1	Total/NA	Water	625	
192-1927-2	Bad Boy 2	Total/NA	Water	625	
MB 192-2589/1-A	Method Blank	Total/NA	Water	625	
LCS 192-2589/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 192-2589/3-A	Lab Control Sample Dup	Total/NA	Water	625	
192-1860-B-1-I MS	Matrix Spike	TCLP	Water	625	2235
192-1860-B-1-J MSD	Matrix Spike Duplicate	TCLP	Water	625	2235

Analysis Batch: 2746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-1927-1	Bad Boy 1	Total/NA	Water	625.1	2589
192-1927-2	Bad Boy 2	Total/NA	Water	625.1	2589
MB 192-2589/1-A	Method Blank	Total/NA	Water	625.1	2589
LCS 192-2589/2-A	Lab Control Sample	Total/NA	Water	625.1	2589
LCSD 192-2589/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	2589
192-1860-B-1-I MS	Matrix Spike	TCLP	Water	625.1	2589
192-1860-B-1-J MSD	Matrix Spike Duplicate	TCLP	Water	625.1	2589

Lab Chronicle

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Client Sample ID: Bad Boy 1

Date Collected: 05/17/23 10:20

Date Received: 05/17/23 14:48

Lab Sample ID: 192-1927-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	2562	LC5	EET ARK	05/18/23 01:53
Total/NA	Analysis	624.1		1	2563	LC5	EET ARK	05/18/23 01:53
Total/NA	Prep	625			2589	SS	EET ARK	05/18/23 13:23
Total/NA	Analysis	625.1		1	2746	LC5	EET ARK	05/19/23 20:09

Client Sample ID: Bad Boy 2

Date Collected: 05/17/23 10:27

Date Received: 05/17/23 14:48

Lab Sample ID: 192-1927-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	2562	LC5	EET ARK	05/18/23 02:23
Total/NA	Analysis	624.1		1	2563	LC5	EET ARK	05/18/23 02:23
Total/NA	Prep	625			2589	SS	EET ARK	05/18/23 13:23
Total/NA	Analysis	625.1		1	2746	LC5	EET ARK	05/19/23 20:44

Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060

Accreditation/Certification Summary

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Laboratory: Eurofins Arkansas

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	60-0889	03-01-24

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Method Summary

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET ARK
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET ARK
624	Purge and Trap	EPA	EET ARK
625	Liquid-Liquid Extraction	EPA	EET ARK

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060



Sample Summary

Client: Arkansas Testing Laboratories
Project/Site: General

Job ID: 192-1927-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
192-1927-1	Bad Boy 1	Water	05/17/23 10:20	05/17/23 14:48
192-1927-2	Bad Boy 2	Water	05/17/23 10:27	05/17/23 14:48

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Login Sample Receipt Checklist

Client: Arkansas Testing Laboratories

Job Number: 192-1927-1

Login Number: 1927

List Number: 1

Creator: Vang, Matthew

List Source: Eurofins Arkansas

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	