

DECEMBER 11, 2020

**REPORT OF RESULTS – JULY 2020  
GROUNDWATER SAMPLING EVENT**

**ARKEMA COATING RESINS  
340 RAILROAD STREET  
SAUKVILLE, WISCONSIN**

**WDNR BRRTS #: 02-46-000767**

**WDNR FID #: 246004330**

**ENDPOINT PROJECT No. 341-020-001:004**

PREPARED FOR:

**RETIA USA/LEGACY SITE SERVICES LLC**  
1201 LOUISIANA STREET, SUITE 1800  
HOUSTON, TX 77002

PREPARED BY:



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**REPORT OF RESULTS – JULY 2020 GROUNDWATER SAMPLING EVENT**

ARKEMA COATING RESINS  
340 RAILROAD STREET  
SAUKVILLE, WISCONSIN

**DECEMBER 11, 2020**

Prepared By:	 _____ Tim C. Petrick Senior Technician	<u>December 11, 2020</u> Date
Reviewed By:	 _____ Robert A. Cigale, P.G. Principal	<u>December 11, 2020</u> Date

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### APPENDIX      APPENDIX TITLE

- A**              ANALYTES AND REPORTING LIMITS
- B**              QUALITY ASSURANCE/QUALITY CONTROL

## EXECUTIVE SUMMARY

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This report presents the results of the July 2020 quarterly groundwater monitoring event conducted at the Arkema Coating Resins facility in Saukville, Wisconsin (the “Saukville Facility”). Due to COVID-19 pandemic access restrictions, the following samples were not collected during the April 2020 groundwater sampling event.

- Three (3) municipal water supply wells; and,
- Village of Saukville publicly owned treatment works (POTW).

The July groundwater sampling event is typically limited to the sampling of municipal water supply well MW-1.

The analytical testing of volatile organic compounds (VOCs) was performed by Eurofins TestAmerica, Chicago Environmental Testing (Eurofins) in University Park, Illinois (WI Certification # 999580010) utilizing United States Environmental Protection Agency (EPA) Method SW846 8260B.

Analytes, reporting limits, and explanations of the data qualifiers are described in **Appendix A**. Laboratory results were validated by an Endpoint professional. The quality assurance/quality control (QA/QC) review is summarized in **Appendix B**.

The results of the July 2020 monitoring event are summarized below. A detailed discussion of the results is presented in **Section 2.0** and **Section 3.0** of this report.

### RECEPTOR MONITORING POINTS

#### MUNICIPAL WATER SUPPLY WELLS

No VOC constituents were detected in the samples collected from municipal water supply wells **MW-1**, **MW-3** and **MW-4** during this sampling event.

#### PUBLICLY OWNED TREATMENT WORKS

The sample of the POTW Influent (**POTW-I**) contained elevated concentrations of toluene, total xylenes, chloroform and ethylbenzene.

The sample of the POTW Effluent (**POTW-E**) did not contain any detectable concentration of any VOC constituents.

The sample of the POTW Sludge (**POTW-S**) contained elevated concentrations of toluene, 1,2-dichloropropane and total xylenes

#### QUALITY ASSURANCE/QUALITY CONTROL

One (1) trip blank sample (**TB1-20-3**) was submitted for VOC analysis. No VOC constituents were detected.

One (1) blind duplicate sample (**DUP1-20-3**) was submitted to the laboratory for analysis. Results of the blind duplicate sample was within an acceptable range of the associated parent sample (**MW-4-20-3**) results. More details regarding the QA/QC sampling and results is presented in **Appendix B**.

## 1.0 SAMPLING PROGRAM

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The groundwater monitoring network at the Arkema Coating Resins Saukville facility (the “Saukville Facility”) consists of 46 monitoring points which include 21 glacial drift monitoring wells, ten (10) shallow dolomite piezometers, four (4) shallow dolomite extraction wells, five (5) deep dolomite wells, three (3) Ranney Collectors (RCs) (essentially french drains) and three (3) publicly-owned treatment works (POTW) sampling points.

### 1.1 MONITORING NETWORK DESCRIPTION

In addition to classifying the monitoring points according to the hydrogeologic units the wells penetrate, the monitoring points have also been classified according to the monitoring objective. The monitoring network has been classified into three (3) monitoring objectives that include receptor monitoring points, perimeter monitoring points and remediation progress points. A discussion of each of these objectives is provided below.

#### 1.1.1 RECEPTOR MONITORING

Receptor points include three (3) municipal water supply wells (**MW-01**, **MW-03**, and **MW-04**); three (3) POTW sampling points including: influent (**POTW-I**), effluent (**POTW-E**), and sludge (**POTW-S**); and the three (3) RCs (**RC-1**, **RC-2**, and **RC-3**). The RCs are monitored because they drain large areas of the glacial drift aquifer and discharge to the POTW.

#### 1.1.2 PERIMETER MONITORING

Perimeter points are both on- and off-site monitoring wells and piezometers that are located at or beyond the edge of the contaminant plume. These monitoring points are intended to provide the information necessary to characterize the lateral extent of the impacts. The perimeter monitoring points consist of eight (8) glacial drift monitoring wells, eight (8) shallow dolomite piezometers and one (1) deep dolomite piezometer. No perimeter monitoring points were scheduled to be sampled during the July 2020 sampling event.

#### 1.1.3 REMEDIATION PROGRESS MONITORING

Remediation progress monitoring points are monitoring wells and piezometers that are located within the contaminant plume. These monitoring points provide information concerning the effectiveness of the on-site remedial systems. The remediation progress points consist of six (6) glacial drift monitoring wells, four (4) shallow dolomite extraction wells, one (1) shallow dolomite piezometer, and one (1) deep dolomite pumping well. The remediation progress monitoring points are scheduled to be sampled annually during the October sampling event. No remediation progress points were scheduled to be sampled during the July 2020 sampling event.

### 1.2 MONITORING NETWORK CHANGES

Since the onset of the monitoring program, three (3) monitoring points have been abandoned. Monitoring wells **W-25** (shallow dolomite) and **W-37** (glacial drift) were abandoned due to damage to the wells from nearby construction projects. Municipal water supply well **MW-2** (deep dolomite) was abandoned following transfer of ownership from the Village of Saukville to CCP

Composites US in 2004. These wells have not been replaced since the remaining monitoring network is providing sufficient data.

## 2.0 MONITORING RESULTS

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Volatile organic compounds (VOCs) were analyzed in samples from three (3) municipal water supply wells, the three (3) sampling points at the village POTW during the July 2020 groundwater sampling event. Results of the July 2020 groundwater sampling event are summarized in the following tables attached in this report:

**Table 1**          Municipal Water Supply Wells - VOC Results

**Table 2**          POTW - VOC Results

All results have been compared to Wisconsin Administrative Code (WAC) Chapter NR 140 Table 1 Public Health Groundwater Quality Standards defined as preventive action limits (PALs) and enforcement standards (ESs).

### 2.1 ANALYTICAL RESULTS

#### 2.1.1 RECEPTOR MONITORING POINTS

##### 2.1.1.1 MUNICIPAL WATER SUPPLY WELLS

No VOC constituents were detected in any of the samples collected from municipal water supply wells **MW-1**, **MW-3** and **MW-4** during this sampling event.

##### 2.1.1.2 PUBLICLY OWNED TREATMENT WORKS

No VOCs were detected in the sample collected from the POTW effluent (**POTW-E**).

Elevated concentrations of toluene (71 micrograms per liter [ $\mu\text{g/L}$ ]), total xylenes (8.0  $\mu\text{g/L}$ ), chloroform (1.2  $\mu\text{g/L}$ ) and ethylbenzene (0.46  $\mu\text{g/L}$ ). The concentrations of chloroform and ethylbenzene were reported as estimated concentrations due to the result being between the method detection limit (MDL) and the reporting limit (RL). The estimated results are qualified with a "J" flag.

Elevated concentrations of toluene (8,000  $\mu\text{g/L}$ ), 1,2-dichloropropane (10  $\mu\text{g/L}$ ) and total xylenes (3.6  $\mu\text{g/L}$ ). The concentration of total xylenes were reported as an estimate between the MDL and the RL.



### **3.0 DISCUSSION OF RESULTS**

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Overall, the results of the July 2020 groundwater sampling event remain consistent with the results from previous sampling events. The concentrations of VOCs detected during the July 2020 groundwater sampling event are in the expected range of variation and of a similar order of magnitude as observed in previous sampling events. The individual parameters detected during the July 2020 groundwater sampling event are consistent with the parameters detected during previous sampling events.

#### **3.1 SUMMARY**

The results of the July 2020 groundwater sampling event indicated that the parameters and their concentrations are generally consistent with the results from previous groundwater sampling events.

No VOC constituents were detected in any of the samples collected from the three (3) municipal water supply wells, indicating the contamination detected in the subsurface on the Saukville Facility are not impacting the Village of Saukville public drinking water source.

## **TABLES**

TABLE 1 –MUNICIPAL WATER SUPPLY WELLS - VOC RESULTS

TABLE 2 –POTW - VOC RESULTS

Table 1

Municipal Water Supply Wells - VOC Results  
Arkema Coating Resins  
Saukville, Wisconsin

Sample ID	MW-1-20-3	MW-3-20-3	MW-4-20-3	DUP1-20-3	TB1-20-3
Collection Date	7/7/2020	7/7/2020	7/7/2020	7/7/2020	7/7/2020
Laboratory ID	500-184536-5	500-184536-4	500-184536-6	500-184536-7	500-184536-8
Duplicate Parent				(MW-4-20-3)	
Monitoring Objective	Receptor	Receptor	Receptor		
Hydrogeologic Unit	Deep Dolomite	Deep Dolomite	Deep Dolomite		
Dilution	1	1	1	1	1
Parameter	PAL	ES	Units		
Benzene	0.5	5	µg/L	<0.15	<0.15
Bromobenzene	-	-	µg/L	<0.36	<0.36
Bromochloromethane	-	-	µg/L	<0.43	<0.43
Bromodichloromethane	0.06	0.6	µg/L	<0.37	<0.37
Bromoform	0.44	4.4	µg/L	<0.48	<0.48
Bromomethane	1	10	µg/L	<0.80	<0.80
Carbon tetrachloride	0.5	5	µg/L	<0.38	<0.38
Chlorobenzene (Monochlorobenzene)	20	100	µg/L	<0.39	<0.39
Chloroethane	80	400	µg/L	<0.51	<0.51
Chloroform	0.6	6	µg/L	<0.37	<0.37
Chloromethane	3	30	µg/L	<0.32	<0.32
2-Chlorotoluene	-	-	µg/L	<0.31	<0.31
4-Chlorotoluene	-	-	µg/L	<0.35	<0.35
cis-1,2-Dichloroethene	7	70	µg/L	<0.41	<0.41
cis-1,3-Dichloropropene	0.04	0.4	µg/L	<0.42	<0.42
Dibromochloromethane	6	60	µg/L	<0.49	<0.49
1,2-Dibromo-3-Chloropropane	0.02	0.2	µg/L	<2.0	<2.0
1,2-Dichloroethane	0.5	5	µg/L	<0.39	<0.39
Dibromomethane	0.005	0.05	µg/L	<0.27	<0.27
1,2-Dichlorobenzene	60	600	µg/L	<0.33	<0.33
1,3-Dichlorobenzene	120	600	µg/L	<0.40	<0.40
1,4-Dichlorobenzene	15	75	µg/L	<0.36	<0.36
Dichlorodifluoromethane	200	1,000	µg/L	<0.67	<0.67
1,1-Dichloroethane	85	850	µg/L	<0.41	<0.41
1,2-Dibromoethane	20	100	µg/L	<0.39	<0.39
1,1-Dichloroethene	0.7	7	µg/L	<0.39	<0.39
1,2-Dichloropropane	0.5	5	µg/L	<0.43	<0.43
1,3-Dichloropropane	0.04	0.4	µg/L	<0.36	<0.36
2,2-Dichloropropane	-	-	µg/L	<0.44	<0.44
1,1-Dichloropropene	-	-	µg/L	<0.30	<0.30
Ethylbenzene	140	700	µg/L	<0.18	<0.18
Hexachlorobutadiene	-	-	µg/L	<0.45	<0.45
Isopropylbenzene	-	-	µg/L	<0.39	<0.39
Isopropyl ether	-	-	µg/L	<0.28	<0.28
Methylene Chloride	0.5	5	µg/L	<1.6	<1.6
Methyl tert-butyl ether (MTBE)	12	60	µg/L	<0.39	<0.39
Naphthalene	10	100	µg/L	<0.34	<0.34
n-Butylbenzene	-	-	µg/L	<0.39	<0.39
N-Propylbenzene	-	-	µg/L	<0.41	<0.41
p-Isopropyltoluene	-	-	µg/L	<0.36	<0.36
sec-Butylbenzene	-	-	µg/L	<0.40	<0.40
Styrene	10	100	µg/L	<0.39	<0.39
tert-Butylbenzene	-	-	µg/L	<0.40	<0.40
1,1,1,2-Tetrachloroethane	7	70	µg/L	<0.46	<0.46
1,1,2,2-Tetrachloroethane	0.02	0.2	µg/L	<0.40	<0.40
Tetrachloroethene (PCE)	0.5	5	µg/L	<0.37	<0.37
Toluene	160	800	µg/L	<0.15	<0.15
trans-1,2-Dichloroethene	20	100	µg/L	<0.35	<0.35
trans-1,3-Dichloropropene	0.04	0.4	µg/L	<0.36	<0.36
1,2,3-Trichlorobenzene	-	-	µg/L	<0.46	<0.46
1,2,4-Trichlorobenzene	14	70	µg/L	<0.34	<0.34
1,1,1-Trichloroethane	40	200	µg/L	<0.38	<0.38
1,1,2-Trichloroethane	0.5	5	µg/L	<0.35	<0.35
Trichloroethene (TCE)	0.5	5	µg/L	<0.16	<0.16
Trichlorofluoromethane	698	3,490	µg/L	<0.43	<0.43
1,2,3-Trichloropropane	12	60	µg/L	<0.41	<0.41
1,2,4-Trimethylbenzene	-	-	µg/L	<0.36	<0.36
1,3,5-Trimethylbenzene	96	480	µg/L	<0.25	<0.25
Vinyl Chloride	0.02	0.2	µg/L	<0.20	<0.20
Xylenes, Total	400	2,000	µg/L	<0.22	<0.22
Total VOCs			µg/L	0.0	0.0

Indicates concentration in exceedance of Wisconsin Administrative Code Chapter NR140 Preventive Action Limit (PAL)

Indicates concentration in exceedance of Wisconsin Administrative Code Chapter NR140 Enforcement Standard (ES)

VOC - volatile organic compound

µg/L - micrograms per liter

mg/L - milligrams per liter

Table 2

POTW-VOC Results  
Arkema Coating Resins  
Saukville, Wisconsin

Sample ID	POTW-I-20-3	POTW-E-20-3	POTW-S-20-3
Collection Date	7/7/2020	7/7/2020	7/7/2020
Laboratory ID	500-184536-2	500-184536-1	500-184536-3
Duplicate Parent			
Monitoring Objective	Receptor	Receptor	Receptor
Hydrogeologic Unit	POTW	POTW	POTW
Dilution	1	1	10
Parameter	Units		
Benzene	µg/L	<0.15	<0.15
Bromobenzene	µg/L	<0.36	<0.36
Bromochloromethane	µg/L	<0.43	<0.43
Bromodichloromethane	µg/L	<0.37	<0.37
Bromoform	µg/L	<0.48	<0.48
Bromomethane	µg/L	<0.80	<0.80
Carbon tetrachloride	µg/L	<0.38	<0.38
Chlorobenzene (Monochlorobenzene)	µg/L	<0.39	<0.39
Chloroethane	µg/L	<0.51	<0.51
Chloroform	µg/L	<b>1.2</b> J	<0.37
Chloromethane	µg/L	<0.32	<0.32
2-Chlorotoluene	µg/L	<0.31	<0.31
4-Chlorotoluene	µg/L	<0.35	<0.35
cis-1,2-Dichloroethene	µg/L	<0.41	<0.41
cis-1,3-Dichloropropene	µg/L	<0.42	<0.42
Dibromochloromethane	µg/L	<0.49	<0.49
1,2-Dibromo-3-Chloropropane	µg/L	<2.0	<2.0
1,2-Dichloroethane	µg/L	<0.39	<0.39
Dibromomethane	µg/L	<0.27	<0.27
1,2-Dichlorobenzene	µg/L	<0.33	<0.33
1,3-Dichlorobenzene	µg/L	<0.40	<0.40
1,4-Dichlorobenzene	µg/L	<0.36	<0.36
Dichlorodifluoromethane	µg/L	<0.67	<0.67
1,1-Dichloroethane	µg/L	<0.41	<0.41
1,2-Dibromoethane	µg/L	<0.39	<0.39
1,1-Dichloroethene	µg/L	<0.39	<0.39
1,2-Dichloropropane	µg/L	<0.43	<b>10</b>
1,3-Dichloropropane	µg/L	<0.36	<0.36
2,2-Dichloropropane	µg/L	<0.44	<0.44
1,1-Dichloropropene	µg/L	<0.30	<0.30
Ethylbenzene	µg/L	<b>0.46</b> J	<0.18
Hexachlorobutadene	µg/L	<0.45	<0.45
Isopropylbenzene	µg/L	<0.39	<0.39
Isopropyl ether	µg/L	<0.28	<0.28
Methylene Chloride	µg/L	<1.6	<1.6
Methyl tert-butyl ether (MTBE)	µg/L	<0.39	<0.39
Naphthalene	µg/L	<0.34	<0.34
n-Butylbenzene	µg/L	<0.39	<0.39
N-Propylbenzene	µg/L	<0.41	<0.41
p-Isopropyltoluene	µg/L	<0.36	<0.36
sec-Butylbenzene	µg/L	<0.40	<0.40
Styrene	µg/L	<0.39	<0.39
tert-Butylbenzene	µg/L	<0.40	<0.40
1,1,1,2-Tetrachloroethane	µg/L	<0.46	<0.46
1,1,2,2-Tetrachloroethane	µg/L	<0.40	<0.40
Tetrachloroethene (PCE)	µg/L	<0.37	<0.37
Toluene	µg/L	<b>71</b>	<b>8,800</b>
trans-1,2-Dichloroethene	µg/L	<0.35	<0.35
trans-1,3-Dichloropropene	µg/L	<0.36	<0.36
1,2,3-Trichlorobenzene	µg/L	<0.46	<0.46
1,2,4-Trichlorobenzene	µg/L	<0.34	<0.34
1,1,1-Trichloroethane	µg/L	<0.38	<0.38
1,1,2-Trichloroethane	µg/L	<0.35	<0.35
Trichloroethene (TCE)	µg/L	<0.16	<0.16
Trichlorofluoromethane	µg/L	<0.43	<0.43
1,2,3-Trichloropropane	µg/L	<0.41	<0.41
1,2,4-Trimethylbenzene	µg/L	<0.36	<0.36
1,3,5-Trimethylbenzene	µg/L	<0.25	<0.25
Vinyl Chloride	µg/L	<0.20	<0.20
Xylenes, Total	µg/L	<b>8.0</b>	<b>3.6</b> J
Total VOCs	µg/L	<b>80.66</b>	<b>0.00</b>
Previous Results	µg/L	27.39	0.00
Date		Oct-19	Oct-19

VOC - volatile organic compound

µg/L - micrograms per liter

"J" - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

POTW - Publicly Owned Treatment Works

\* - Lab Control Spike (LCS) or Lab Control Spike Duplicate (LCS D) is outside acceptance limits

## **APPENDIX A**

### ANALYTES AND REPORTING LIMITS

All analytical testing was performed by Eurofins TestAmerica, Chicago Environmental Testing (Eurofins) in University Park, Illinois (WI Certification # 999580010). The following methods were used to analyze the submitted samples.

VOCs            SW846 8260B

#### **LABORATORY AND DATA VALIDATION QUALIFIERS**

The following qualifiers were used to denote quality control comments.

\* - Lab control sample (LCS) or Lab control sample duplicate (LCSD) is outside acceptable limits.

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## ANALYTICAL REPORT

Eurofins TestAmerica, Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

Laboratory Job ID: 500-184536-1  
Client Project/Site: Arkema - Saukville 341-020-004

For:  
Endpoint Solutions Corp  
6871 S. Lover's Lane  
Franklin, Wisconsin 53132

Attn: Mr. Tim Petrick



Authorized for release by:  
7/20/2020 4:11:14 PM

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### LINKS

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*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Case Narrative

Client: Endpoint Solutions Corp  
Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

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## Job ID: 500-184536-1

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Laboratory: Eurofins TestAmerica, Chicago

### Narrative

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#### Job Narrative 500-184536-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 7/8/2020 9:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.4° C.

#### Receipt Exceptions

Received all 3 VOA vials for sample 3 with headspace.

#### GC/MS VOA

Methods 624, 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: POTW-S-20-3 (500-184536-3). Elevated reporting limits (RLs) are provided.

Method 8260B: The initial calibration verification (ICV) result for batch 532681 was above the upper control limit for Dichlorodifluoromethane. Sample results were non-detects, and have been reported. POTW-S-20-3 (500-184536-3)

Method 8260B: The laboratory control sample (LCS) for 552408 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane. This poor purging analyte was biased low in the LCS and was not detected in the associated samples; therefore, the data have been reported. POTW-S-20-3 (500-184536-3)

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



# Detection Summary

Client: Endpoint Solutions Corp  
Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

## Client Sample ID: POTW-E-20-3

Lab Sample ID: 500-184536-1

No Detections.

## Client Sample ID: POTW-I-20-3

Lab Sample ID: 500-184536-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.2	J	2.0	0.37	ug/L	1		8260B	Total/NA
Ethylbenzene	0.46	J	0.50	0.18	ug/L	1		8260B	Total/NA
Toluene	71		0.50	0.15	ug/L	1		8260B	Total/NA
Xylenes, Total	8.0		1.0	0.22	ug/L	1		8260B	Total/NA

## Client Sample ID: POTW-S-20-3

Lab Sample ID: 500-184536-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloropropane	10		10	4.3	ug/L	10		8260B	Total/NA
Xylenes, Total	3.6	J	10	2.2	ug/L	10		8260B	Total/NA
Toluene - DL	8800		25	7.6	ug/L	50		8260B	Total/NA

## Client Sample ID: MW-3-20-3

Lab Sample ID: 500-184536-4

No Detections.

## Client Sample ID: MW-1-20-3

Lab Sample ID: 500-184536-5

No Detections.

## Client Sample ID: MW-4-20-3

Lab Sample ID: 500-184536-6

No Detections.

## Client Sample ID: DUP1-20-3

Lab Sample ID: 500-184536-7

No Detections.

## Client Sample ID: TB1-20-3

Lab Sample ID: 500-184536-8

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

# Method Summary

Client: Endpoint Solutions Corp  
Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



# Sample Summary

Client: Endpoint Solutions Corp  
Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-184536-1	POTW-E-20-3	Water	07/07/20 08:15	07/08/20 09:30	
500-184536-2	POTW-I-20-3	Water	07/07/20 08:20	07/08/20 09:30	
500-184536-3	POTW-S-20-3	Water	07/07/20 09:25	07/08/20 09:30	
500-184536-4	MW-3-20-3	Water	07/07/20 08:30	07/08/20 09:30	
500-184536-5	MW-1-20-3	Water	07/07/20 08:40	07/08/20 09:30	
500-184536-6	MW-4-20-3	Water	07/07/20 08:50	07/08/20 09:30	
500-184536-7	DUP1-20-3	Water	07/07/20 00:00	07/08/20 09:30	
500-184536-8	TB1-20-3	Water	07/07/20 00:00	07/08/20 09:30	

# Client Sample Results

Client: Endpoint Solutions Corp  
 Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

**Client Sample ID: POTW-E-20-3**

**Lab Sample ID: 500-184536-1**

**Date Collected: 07/07/20 08:15**

**Matrix: Water**

**Date Received: 07/08/20 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/15/20 12:52	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/15/20 12:52	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/15/20 12:52	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/15/20 12:52	1
Bromoform	<0.48		1.0	0.48	ug/L			07/15/20 12:52	1
Bromomethane	<0.80		3.0	0.80	ug/L			07/15/20 12:52	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/15/20 12:52	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/15/20 12:52	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/15/20 12:52	1
Chloroform	<0.37		2.0	0.37	ug/L			07/15/20 12:52	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/15/20 12:52	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/15/20 12:52	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/15/20 12:52	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/15/20 12:52	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/15/20 12:52	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/15/20 12:52	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/15/20 12:52	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/15/20 12:52	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/15/20 12:52	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/15/20 12:52	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/15/20 12:52	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/15/20 12:52	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			07/15/20 12:52	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/15/20 12:52	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/15/20 12:52	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/15/20 12:52	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/15/20 12:52	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/15/20 12:52	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/15/20 12:52	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/15/20 12:52	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/15/20 12:52	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/15/20 12:52	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/15/20 12:52	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/15/20 12:52	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/15/20 12:52	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/15/20 12:52	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/15/20 12:52	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/15/20 12:52	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/15/20 12:52	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/15/20 12:52	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/15/20 12:52	1
Styrene	<0.39		1.0	0.39	ug/L			07/15/20 12:52	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/15/20 12:52	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/15/20 12:52	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/15/20 12:52	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			07/15/20 12:52	1
Toluene	<0.15		0.50	0.15	ug/L			07/15/20 12:52	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/15/20 12:52	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/15/20 12:52	1

# Client Sample Results

Client: Endpoint Solutions Corp  
 Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

**Client Sample ID: POTW-E-20-3**

**Lab Sample ID: 500-184536-1**

**Date Collected: 07/07/20 08:15**

**Matrix: Water**

**Date Received: 07/08/20 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/15/20 12:52	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/15/20 12:52	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/15/20 12:52	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/15/20 12:52	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/15/20 12:52	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/15/20 12:52	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			07/15/20 12:52	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/15/20 12:52	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/15/20 12:52	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/15/20 12:52	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/15/20 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		72 - 124		07/15/20 12:52	1
Dibromofluoromethane (Surr)	106		75 - 120		07/15/20 12:52	1
1,2-Dichloroethane-d4 (Surr)	108		75 - 126		07/15/20 12:52	1
Toluene-d8 (Surr)	95		75 - 120		07/15/20 12:52	1

# Client Sample Results

Client: Endpoint Solutions Corp  
 Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

**Client Sample ID: POTW-I-20-3**

**Lab Sample ID: 500-184536-2**

Date Collected: 07/07/20 08:20

Matrix: Water

Date Received: 07/08/20 09:30

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/15/20 13:19	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/15/20 13:19	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/15/20 13:19	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/15/20 13:19	1
Bromoform	<0.48		1.0	0.48	ug/L			07/15/20 13:19	1
Bromomethane	<0.80		3.0	0.80	ug/L			07/15/20 13:19	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/15/20 13:19	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/15/20 13:19	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/15/20 13:19	1
<b>Chloroform</b>	<b>1.2</b>	<b>J</b>	2.0	0.37	ug/L			07/15/20 13:19	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/15/20 13:19	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/15/20 13:19	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/15/20 13:19	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/15/20 13:19	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/15/20 13:19	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/15/20 13:19	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/15/20 13:19	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/15/20 13:19	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/15/20 13:19	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/15/20 13:19	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/15/20 13:19	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/15/20 13:19	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			07/15/20 13:19	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/15/20 13:19	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/15/20 13:19	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/15/20 13:19	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/15/20 13:19	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/15/20 13:19	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/15/20 13:19	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/15/20 13:19	1
<b>Ethylbenzene</b>	<b>0.46</b>	<b>J</b>	0.50	0.18	ug/L			07/15/20 13:19	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/15/20 13:19	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/15/20 13:19	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/15/20 13:19	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/15/20 13:19	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/15/20 13:19	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/15/20 13:19	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/15/20 13:19	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/15/20 13:19	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/15/20 13:19	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/15/20 13:19	1
Styrene	<0.39		1.0	0.39	ug/L			07/15/20 13:19	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/15/20 13:19	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/15/20 13:19	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/15/20 13:19	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			07/15/20 13:19	1
<b>Toluene</b>	<b>71</b>		0.50	0.15	ug/L			07/15/20 13:19	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/15/20 13:19	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/15/20 13:19	1

# Client Sample Results

Client: Endpoint Solutions Corp  
 Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

**Client Sample ID: POTW-I-20-3**

**Lab Sample ID: 500-184536-2**

**Date Collected: 07/07/20 08:20**

**Matrix: Water**

**Date Received: 07/08/20 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/15/20 13:19	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/15/20 13:19	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/15/20 13:19	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/15/20 13:19	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/15/20 13:19	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/15/20 13:19	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			07/15/20 13:19	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/15/20 13:19	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/15/20 13:19	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/15/20 13:19	1
<b>Xylenes, Total</b>	<b>8.0</b>		1.0	0.22	ug/L			07/15/20 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		72 - 124		07/15/20 13:19	1
Dibromofluoromethane (Surr)	111		75 - 120		07/15/20 13:19	1
1,2-Dichloroethane-d4 (Surr)	109		75 - 126		07/15/20 13:19	1
Toluene-d8 (Surr)	94		75 - 120		07/15/20 13:19	1

# Client Sample Results

Client: Endpoint Solutions Corp  
 Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

**Client Sample ID: POTW-S-20-3**

**Lab Sample ID: 500-184536-3**

Date Collected: 07/07/20 09:25

Matrix: Water

Date Received: 07/08/20 09:30

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.5		5.0	1.5	ug/L			07/16/20 18:52	10
Bromobenzene	<3.6		10	3.6	ug/L			07/16/20 18:52	10
Bromochloromethane	<4.3		10	4.3	ug/L			07/16/20 18:52	10
Bromodichloromethane	<3.7		10	3.7	ug/L			07/16/20 18:52	10
Bromoform	<4.8		10	4.8	ug/L			07/16/20 18:52	10
Bromomethane	<8.0		30	8.0	ug/L			07/16/20 18:52	10
Carbon tetrachloride	<3.8		10	3.8	ug/L			07/16/20 18:52	10
Chlorobenzene	<3.9		10	3.9	ug/L			07/16/20 18:52	10
Chloroethane	<5.1		10	5.1	ug/L			07/16/20 18:52	10
Chloroform	<3.7		20	3.7	ug/L			07/16/20 18:52	10
Chloromethane	<3.2		10	3.2	ug/L			07/16/20 18:52	10
2-Chlorotoluene	<3.1		10	3.1	ug/L			07/16/20 18:52	10
4-Chlorotoluene	<3.5		10	3.5	ug/L			07/16/20 18:52	10
cis-1,2-Dichloroethene	<4.1		10	4.1	ug/L			07/16/20 18:52	10
cis-1,3-Dichloropropene	<4.2		10	4.2	ug/L			07/16/20 18:52	10
Dibromochloromethane	<4.9		10	4.9	ug/L			07/16/20 18:52	10
1,2-Dibromo-3-Chloropropane	<20 *		50	20	ug/L			07/16/20 18:52	10
1,2-Dibromoethane	<3.9		10	3.9	ug/L			07/16/20 18:52	10
Dibromomethane	<2.7		10	2.7	ug/L			07/16/20 18:52	10
1,2-Dichlorobenzene	<3.3		10	3.3	ug/L			07/16/20 18:52	10
1,3-Dichlorobenzene	<4.0		10	4.0	ug/L			07/16/20 18:52	10
1,4-Dichlorobenzene	<3.6		10	3.6	ug/L			07/16/20 18:52	10
Dichlorodifluoromethane	<6.7		30	6.7	ug/L			07/16/20 18:52	10
1,1-Dichloroethane	<4.1		10	4.1	ug/L			07/16/20 18:52	10
1,2-Dichloroethane	<3.9		10	3.9	ug/L			07/16/20 18:52	10
1,1-Dichloroethene	<3.9		10	3.9	ug/L			07/16/20 18:52	10
<b>1,2-Dichloropropane</b>	<b>10</b>		10	4.3	ug/L			07/16/20 18:52	10
1,3-Dichloropropane	<3.6		10	3.6	ug/L			07/16/20 18:52	10
2,2-Dichloropropane	<4.4		10	4.4	ug/L			07/16/20 18:52	10
1,1-Dichloropropene	<3.0		10	3.0	ug/L			07/16/20 18:52	10
Ethylbenzene	<1.8		5.0	1.8	ug/L			07/16/20 18:52	10
Hexachlorobutadiene	<4.5		10	4.5	ug/L			07/16/20 18:52	10
Isopropylbenzene	<3.9		10	3.9	ug/L			07/16/20 18:52	10
Isopropyl ether	<2.8		10	2.8	ug/L			07/16/20 18:52	10
Methylene Chloride	<16		50	16	ug/L			07/16/20 18:52	10
Methyl tert-butyl ether	<3.9		10	3.9	ug/L			07/16/20 18:52	10
Naphthalene	<3.4		10	3.4	ug/L			07/16/20 18:52	10
n-Butylbenzene	<3.9		10	3.9	ug/L			07/16/20 18:52	10
N-Propylbenzene	<4.1		10	4.1	ug/L			07/16/20 18:52	10
p-Isopropyltoluene	<3.6		10	3.6	ug/L			07/16/20 18:52	10
sec-Butylbenzene	<4.0		10	4.0	ug/L			07/16/20 18:52	10
Styrene	<3.9		10	3.9	ug/L			07/16/20 18:52	10
tert-Butylbenzene	<4.0		10	4.0	ug/L			07/16/20 18:52	10
1,1,1,2-Tetrachloroethane	<4.6		10	4.6	ug/L			07/16/20 18:52	10
1,1,2,2-Tetrachloroethane	<4.0		10	4.0	ug/L			07/16/20 18:52	10
Tetrachloroethene	<3.7		10	3.7	ug/L			07/16/20 18:52	10
trans-1,2-Dichloroethene	<3.5		10	3.5	ug/L			07/16/20 18:52	10
trans-1,3-Dichloropropene	<3.6		10	3.6	ug/L			07/16/20 18:52	10
1,2,3-Trichlorobenzene	<4.6		10	4.6	ug/L			07/16/20 18:52	10



# Client Sample Results

Client: Endpoint Solutions Corp  
 Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

**Client Sample ID: POTW-S-20-3**

**Lab Sample ID: 500-184536-3**

**Date Collected: 07/07/20 09:25**

**Matrix: Water**

**Date Received: 07/08/20 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<3.4		10	3.4	ug/L			07/16/20 18:52	10
1,1,1-Trichloroethane	<3.8		10	3.8	ug/L			07/16/20 18:52	10
1,1,2-Trichloroethane	<3.5		10	3.5	ug/L			07/16/20 18:52	10
Trichloroethene	<1.6		5.0	1.6	ug/L			07/16/20 18:52	10
Trichlorofluoromethane	<4.3		10	4.3	ug/L			07/16/20 18:52	10
1,2,3-Trichloropropane	<4.1		20	4.1	ug/L			07/16/20 18:52	10
1,2,4-Trimethylbenzene	<3.6		10	3.6	ug/L			07/16/20 18:52	10
1,3,5-Trimethylbenzene	<2.5		10	2.5	ug/L			07/16/20 18:52	10
Vinyl chloride	<2.0		10	2.0	ug/L			07/16/20 18:52	10
<b>Xylenes, Total</b>	<b>3.6</b>	<b>J</b>	10	2.2	ug/L			07/16/20 18:52	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		72 - 124		07/16/20 18:52	10
Dibromofluoromethane (Surr)	89		75 - 120		07/16/20 18:52	10
1,2-Dichloroethane-d4 (Surr)	102		75 - 126		07/16/20 18:52	10
Toluene-d8 (Surr)	94		75 - 120		07/16/20 18:52	10

**Method: 8260B - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Toluene</b>	<b>8800</b>		25	7.6	ug/L			07/15/20 13:45	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		72 - 124		07/15/20 13:45	50
Dibromofluoromethane (Surr)	112		75 - 120		07/15/20 13:45	50
1,2-Dichloroethane-d4 (Surr)	107		75 - 126		07/15/20 13:45	50
Toluene-d8 (Surr)	95		75 - 120		07/15/20 13:45	50

# Client Sample Results

Client: Endpoint Solutions Corp  
 Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

**Client Sample ID: MW-3-20-3**

**Lab Sample ID: 500-184536-4**

**Date Collected: 07/07/20 08:30**

**Matrix: Water**

**Date Received: 07/08/20 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/15/20 14:39	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/15/20 14:39	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/15/20 14:39	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/15/20 14:39	1
Bromoform	<0.48		1.0	0.48	ug/L			07/15/20 14:39	1
Bromomethane	<0.80		3.0	0.80	ug/L			07/15/20 14:39	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/15/20 14:39	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/15/20 14:39	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/15/20 14:39	1
Chloroform	<0.37		2.0	0.37	ug/L			07/15/20 14:39	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/15/20 14:39	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/15/20 14:39	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/15/20 14:39	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/15/20 14:39	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/15/20 14:39	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/15/20 14:39	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/15/20 14:39	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/15/20 14:39	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/15/20 14:39	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/15/20 14:39	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/15/20 14:39	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/15/20 14:39	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			07/15/20 14:39	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/15/20 14:39	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/15/20 14:39	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/15/20 14:39	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/15/20 14:39	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/15/20 14:39	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/15/20 14:39	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/15/20 14:39	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/15/20 14:39	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/15/20 14:39	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/15/20 14:39	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/15/20 14:39	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/15/20 14:39	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/15/20 14:39	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/15/20 14:39	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/15/20 14:39	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/15/20 14:39	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/15/20 14:39	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/15/20 14:39	1
Styrene	<0.39		1.0	0.39	ug/L			07/15/20 14:39	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/15/20 14:39	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/15/20 14:39	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/15/20 14:39	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			07/15/20 14:39	1
Toluene	<0.15		0.50	0.15	ug/L			07/15/20 14:39	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/15/20 14:39	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/15/20 14:39	1

# Client Sample Results

Client: Endpoint Solutions Corp  
 Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

**Client Sample ID: MW-3-20-3**

**Lab Sample ID: 500-184536-4**

**Date Collected: 07/07/20 08:30**

**Matrix: Water**

**Date Received: 07/08/20 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/15/20 14:39	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/15/20 14:39	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/15/20 14:39	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/15/20 14:39	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/15/20 14:39	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/15/20 14:39	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			07/15/20 14:39	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/15/20 14:39	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/15/20 14:39	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/15/20 14:39	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/15/20 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		72 - 124		07/15/20 14:39	1
Dibromofluoromethane (Surr)	114		75 - 120		07/15/20 14:39	1
1,2-Dichloroethane-d4 (Surr)	115		75 - 126		07/15/20 14:39	1
Toluene-d8 (Surr)	93		75 - 120		07/15/20 14:39	1

# Client Sample Results

Client: Endpoint Solutions Corp  
 Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

**Client Sample ID: MW-1-20-3**

**Lab Sample ID: 500-184536-5**

**Date Collected: 07/07/20 08:40**

**Matrix: Water**

**Date Received: 07/08/20 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/15/20 15:05	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/15/20 15:05	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/15/20 15:05	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/15/20 15:05	1
Bromoform	<0.48		1.0	0.48	ug/L			07/15/20 15:05	1
Bromomethane	<0.80		3.0	0.80	ug/L			07/15/20 15:05	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/15/20 15:05	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/15/20 15:05	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/15/20 15:05	1
Chloroform	<0.37		2.0	0.37	ug/L			07/15/20 15:05	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/15/20 15:05	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/15/20 15:05	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/15/20 15:05	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/15/20 15:05	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/15/20 15:05	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/15/20 15:05	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/15/20 15:05	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/15/20 15:05	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/15/20 15:05	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/15/20 15:05	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/15/20 15:05	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/15/20 15:05	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			07/15/20 15:05	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/15/20 15:05	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/15/20 15:05	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/15/20 15:05	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/15/20 15:05	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/15/20 15:05	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/15/20 15:05	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/15/20 15:05	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/15/20 15:05	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/15/20 15:05	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/15/20 15:05	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/15/20 15:05	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/15/20 15:05	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/15/20 15:05	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/15/20 15:05	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/15/20 15:05	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/15/20 15:05	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/15/20 15:05	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/15/20 15:05	1
Styrene	<0.39		1.0	0.39	ug/L			07/15/20 15:05	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/15/20 15:05	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/15/20 15:05	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/15/20 15:05	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			07/15/20 15:05	1
Toluene	<0.15		0.50	0.15	ug/L			07/15/20 15:05	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/15/20 15:05	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/15/20 15:05	1

# Client Sample Results

Client: Endpoint Solutions Corp  
 Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

**Client Sample ID: MW-1-20-3**

**Lab Sample ID: 500-184536-5**

**Date Collected: 07/07/20 08:40**

**Matrix: Water**

**Date Received: 07/08/20 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/15/20 15:05	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/15/20 15:05	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/15/20 15:05	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/15/20 15:05	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/15/20 15:05	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/15/20 15:05	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			07/15/20 15:05	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/15/20 15:05	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/15/20 15:05	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/15/20 15:05	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/15/20 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		72 - 124		07/15/20 15:05	1
Dibromofluoromethane (Surr)	114		75 - 120		07/15/20 15:05	1
1,2-Dichloroethane-d4 (Surr)	113		75 - 126		07/15/20 15:05	1
Toluene-d8 (Surr)	93		75 - 120		07/15/20 15:05	1

# Client Sample Results

Client: Endpoint Solutions Corp  
 Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

**Client Sample ID: MW-4-20-3**

**Lab Sample ID: 500-184536-6**

**Date Collected: 07/07/20 08:50**

**Matrix: Water**

**Date Received: 07/08/20 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/15/20 15:32	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/15/20 15:32	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/15/20 15:32	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/15/20 15:32	1
Bromoform	<0.48		1.0	0.48	ug/L			07/15/20 15:32	1
Bromomethane	<0.80		3.0	0.80	ug/L			07/15/20 15:32	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/15/20 15:32	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/15/20 15:32	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/15/20 15:32	1
Chloroform	<0.37		2.0	0.37	ug/L			07/15/20 15:32	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/15/20 15:32	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/15/20 15:32	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/15/20 15:32	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/15/20 15:32	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/15/20 15:32	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/15/20 15:32	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/15/20 15:32	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/15/20 15:32	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/15/20 15:32	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/15/20 15:32	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/15/20 15:32	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/15/20 15:32	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			07/15/20 15:32	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/15/20 15:32	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/15/20 15:32	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/15/20 15:32	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/15/20 15:32	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/15/20 15:32	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/15/20 15:32	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/15/20 15:32	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/15/20 15:32	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/15/20 15:32	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/15/20 15:32	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/15/20 15:32	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/15/20 15:32	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/15/20 15:32	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/15/20 15:32	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/15/20 15:32	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/15/20 15:32	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/15/20 15:32	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/15/20 15:32	1
Styrene	<0.39		1.0	0.39	ug/L			07/15/20 15:32	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/15/20 15:32	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/15/20 15:32	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/15/20 15:32	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			07/15/20 15:32	1
Toluene	<0.15		0.50	0.15	ug/L			07/15/20 15:32	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/15/20 15:32	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/15/20 15:32	1

# Client Sample Results

Client: Endpoint Solutions Corp  
 Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

**Client Sample ID: MW-4-20-3**

**Lab Sample ID: 500-184536-6**

**Date Collected: 07/07/20 08:50**

**Matrix: Water**

**Date Received: 07/08/20 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/15/20 15:32	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/15/20 15:32	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/15/20 15:32	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/15/20 15:32	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/15/20 15:32	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/15/20 15:32	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			07/15/20 15:32	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/15/20 15:32	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/15/20 15:32	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/15/20 15:32	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/15/20 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		72 - 124		07/15/20 15:32	1
Dibromofluoromethane (Surr)	115		75 - 120		07/15/20 15:32	1
1,2-Dichloroethane-d4 (Surr)	112		75 - 126		07/15/20 15:32	1
Toluene-d8 (Surr)	95		75 - 120		07/15/20 15:32	1

# Client Sample Results

Client: Endpoint Solutions Corp  
 Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

**Client Sample ID: DUP1-20-3**

**Lab Sample ID: 500-184536-7**

**Date Collected: 07/07/20 00:00**

**Matrix: Water**

**Date Received: 07/08/20 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/15/20 15:58	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/15/20 15:58	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/15/20 15:58	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/15/20 15:58	1
Bromoform	<0.48		1.0	0.48	ug/L			07/15/20 15:58	1
Bromomethane	<0.80		3.0	0.80	ug/L			07/15/20 15:58	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/15/20 15:58	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/15/20 15:58	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/15/20 15:58	1
Chloroform	<0.37		2.0	0.37	ug/L			07/15/20 15:58	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/15/20 15:58	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/15/20 15:58	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/15/20 15:58	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/15/20 15:58	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/15/20 15:58	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/15/20 15:58	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/15/20 15:58	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/15/20 15:58	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/15/20 15:58	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/15/20 15:58	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/15/20 15:58	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/15/20 15:58	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			07/15/20 15:58	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/15/20 15:58	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/15/20 15:58	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/15/20 15:58	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/15/20 15:58	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/15/20 15:58	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/15/20 15:58	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/15/20 15:58	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/15/20 15:58	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/15/20 15:58	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/15/20 15:58	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/15/20 15:58	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/15/20 15:58	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/15/20 15:58	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/15/20 15:58	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/15/20 15:58	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/15/20 15:58	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/15/20 15:58	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/15/20 15:58	1
Styrene	<0.39		1.0	0.39	ug/L			07/15/20 15:58	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/15/20 15:58	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/15/20 15:58	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/15/20 15:58	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			07/15/20 15:58	1
Toluene	<0.15		0.50	0.15	ug/L			07/15/20 15:58	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/15/20 15:58	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/15/20 15:58	1



# Client Sample Results

Client: Endpoint Solutions Corp  
 Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

**Client Sample ID: DUP1-20-3**

**Lab Sample ID: 500-184536-7**

**Date Collected: 07/07/20 00:00**

**Matrix: Water**

**Date Received: 07/08/20 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/15/20 15:58	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/15/20 15:58	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/15/20 15:58	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/15/20 15:58	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/15/20 15:58	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/15/20 15:58	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			07/15/20 15:58	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/15/20 15:58	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/15/20 15:58	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/15/20 15:58	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/15/20 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		72 - 124		07/15/20 15:58	1
Dibromofluoromethane (Surr)	115		75 - 120		07/15/20 15:58	1
1,2-Dichloroethane-d4 (Surr)	115		75 - 126		07/15/20 15:58	1
Toluene-d8 (Surr)	93		75 - 120		07/15/20 15:58	1

# Client Sample Results

Client: Endpoint Solutions Corp  
 Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

**Client Sample ID: TB1-20-3**

**Lab Sample ID: 500-184536-8**

**Date Collected: 07/07/20 00:00**

**Matrix: Water**

**Date Received: 07/08/20 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/15/20 12:25	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/15/20 12:25	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/15/20 12:25	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/15/20 12:25	1
Bromoform	<0.48		1.0	0.48	ug/L			07/15/20 12:25	1
Bromomethane	<0.80		3.0	0.80	ug/L			07/15/20 12:25	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/15/20 12:25	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/15/20 12:25	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/15/20 12:25	1
Chloroform	<0.37		2.0	0.37	ug/L			07/15/20 12:25	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/15/20 12:25	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/15/20 12:25	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/15/20 12:25	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/15/20 12:25	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/15/20 12:25	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/15/20 12:25	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/15/20 12:25	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/15/20 12:25	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/15/20 12:25	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/15/20 12:25	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/15/20 12:25	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/15/20 12:25	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			07/15/20 12:25	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/15/20 12:25	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/15/20 12:25	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/15/20 12:25	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/15/20 12:25	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/15/20 12:25	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/15/20 12:25	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/15/20 12:25	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/15/20 12:25	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/15/20 12:25	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/15/20 12:25	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/15/20 12:25	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/15/20 12:25	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/15/20 12:25	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/15/20 12:25	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/15/20 12:25	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/15/20 12:25	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/15/20 12:25	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/15/20 12:25	1
Styrene	<0.39		1.0	0.39	ug/L			07/15/20 12:25	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/15/20 12:25	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/15/20 12:25	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/15/20 12:25	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			07/15/20 12:25	1
Toluene	<0.15		0.50	0.15	ug/L			07/15/20 12:25	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/15/20 12:25	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/15/20 12:25	1

# Client Sample Results

Client: Endpoint Solutions Corp  
 Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

**Client Sample ID: TB1-20-3**

**Lab Sample ID: 500-184536-8**

**Date Collected: 07/07/20 00:00**

**Matrix: Water**

**Date Received: 07/08/20 09:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/15/20 12:25	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/15/20 12:25	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/15/20 12:25	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/15/20 12:25	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/15/20 12:25	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/15/20 12:25	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			07/15/20 12:25	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/15/20 12:25	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/15/20 12:25	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/15/20 12:25	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/15/20 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		72 - 124		07/15/20 12:25	1
Dibromofluoromethane (Surr)	111		75 - 120		07/15/20 12:25	1
1,2-Dichloroethane-d4 (Surr)	107		75 - 126		07/15/20 12:25	1
Toluene-d8 (Surr)	93		75 - 120		07/15/20 12:25	1

# Definitions/Glossary

Client: Endpoint Solutions Corp  
Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	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

# QC Association Summary

Client: Endpoint Solutions Corp  
Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

## GC/MS VOA

### Analysis Batch: 552227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-184536-1	POTW-E-20-3	Total/NA	Water	8260B	
500-184536-2	POTW-I-20-3	Total/NA	Water	8260B	
500-184536-3 - DL	POTW-S-20-3	Total/NA	Water	8260B	
500-184536-4	MW-3-20-3	Total/NA	Water	8260B	
500-184536-5	MW-1-20-3	Total/NA	Water	8260B	
500-184536-6	MW-4-20-3	Total/NA	Water	8260B	
500-184536-7	DUP1-20-3	Total/NA	Water	8260B	
500-184536-8	TB1-20-3	Total/NA	Water	8260B	
MB 500-552227/6	Method Blank	Total/NA	Water	8260B	
LCS 500-552227/4	Lab Control Sample	Total/NA	Water	8260B	

### Analysis Batch: 552408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-184536-3	POTW-S-20-3	Total/NA	Water	8260B	
MB 500-552408/6	Method Blank	Total/NA	Water	8260B	
LCS 500-552408/4	Lab Control Sample	Total/NA	Water	8260B	

# Surrogate Summary

Client: Endpoint Solutions Corp  
Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

**Matrix: Water**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(72-124)	(75-120)	(75-126)	(75-120)
500-184536-1	POTW-E-20-3	92	106	108	95
500-184536-2	POTW-I-20-3	92	111	109	94
500-184536-3 - DL	POTW-S-20-3	94	112	107	95
500-184536-3	POTW-S-20-3	95	89	102	94
500-184536-4	MW-3-20-3	91	114	115	93
500-184536-5	MW-1-20-3	91	114	113	93
500-184536-6	MW-4-20-3	93	115	112	95
500-184536-7	DUP1-20-3	92	115	115	93
500-184536-8	TB1-20-3	92	111	107	93
LCS 500-552227/4	Lab Control Sample	91	110	106	99
LCS 500-552408/4	Lab Control Sample	92	90	99	98
MB 500-552227/6	Method Blank	90	111	109	96
MB 500-552408/6	Method Blank	96	89	103	96

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

# QC Sample Results

Client: Endpoint Solutions Corp  
 Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 500-552227/6**  
**Matrix: Water**  
**Analysis Batch: 552227**

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.15		0.50	0.15	ug/L			07/15/20 11:58	1
Bromobenzene	<0.36		1.0	0.36	ug/L			07/15/20 11:58	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/15/20 11:58	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/15/20 11:58	1
Bromoform	<0.48		1.0	0.48	ug/L			07/15/20 11:58	1
Bromomethane	<0.80		3.0	0.80	ug/L			07/15/20 11:58	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/15/20 11:58	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/15/20 11:58	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/15/20 11:58	1
Chloroform	<0.37		2.0	0.37	ug/L			07/15/20 11:58	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/15/20 11:58	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/15/20 11:58	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/15/20 11:58	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/15/20 11:58	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/15/20 11:58	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/15/20 11:58	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/15/20 11:58	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/15/20 11:58	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/15/20 11:58	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/15/20 11:58	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/15/20 11:58	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/15/20 11:58	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			07/15/20 11:58	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/15/20 11:58	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/15/20 11:58	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/15/20 11:58	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/15/20 11:58	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/15/20 11:58	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/15/20 11:58	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/15/20 11:58	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/15/20 11:58	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/15/20 11:58	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/15/20 11:58	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/15/20 11:58	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/15/20 11:58	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/15/20 11:58	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/15/20 11:58	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/15/20 11:58	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/15/20 11:58	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/15/20 11:58	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/15/20 11:58	1
Styrene	<0.39		1.0	0.39	ug/L			07/15/20 11:58	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/15/20 11:58	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/15/20 11:58	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/15/20 11:58	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			07/15/20 11:58	1
Toluene	<0.15		0.50	0.15	ug/L			07/15/20 11:58	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/15/20 11:58	1

# QC Sample Results

Client: Endpoint Solutions Corp  
Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-552227/6**  
**Matrix: Water**  
**Analysis Batch: 552227**

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/15/20 11:58	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/15/20 11:58	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/15/20 11:58	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/15/20 11:58	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/15/20 11:58	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/15/20 11:58	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/15/20 11:58	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			07/15/20 11:58	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/15/20 11:58	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/15/20 11:58	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/15/20 11:58	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/15/20 11:58	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	90		72 - 124		07/15/20 11:58	1
Dibromofluoromethane (Surr)	111		75 - 120		07/15/20 11:58	1
1,2-Dichloroethane-d4 (Surr)	109		75 - 126		07/15/20 11:58	1
Toluene-d8 (Surr)	96		75 - 120		07/15/20 11:58	1

**Lab Sample ID: LCS 500-552227/4**  
**Matrix: Water**  
**Analysis Batch: 552227**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	44.2		ug/L		88	70 - 122
Bromochloromethane	50.0	48.0		ug/L		96	65 - 122
Bromodichloromethane	50.0	43.3		ug/L		87	69 - 120
Bromoform	50.0	47.7		ug/L		95	56 - 132
Bromomethane	50.0	45.9		ug/L		92	40 - 152
Carbon tetrachloride	50.0	49.3		ug/L		99	59 - 133
Chlorobenzene	50.0	44.9		ug/L		90	70 - 120
Chloroethane	50.0	57.5		ug/L		115	48 - 136
Chloroform	50.0	43.7		ug/L		87	70 - 120
Chloromethane	50.0	35.7		ug/L		71	56 - 152
2-Chlorotoluene	50.0	39.0		ug/L		78	70 - 125
4-Chlorotoluene	50.0	40.2		ug/L		80	68 - 124
cis-1,2-Dichloroethene	50.0	45.0		ug/L		90	70 - 125
cis-1,3-Dichloropropene	50.0	38.5		ug/L		77	64 - 127
Dibromochloromethane	50.0	44.8		ug/L		90	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	38.7		ug/L		77	56 - 123
1,2-Dibromoethane	50.0	42.6		ug/L		85	70 - 125
Dibromomethane	50.0	45.8		ug/L		92	70 - 120
1,2-Dichlorobenzene	50.0	44.1		ug/L		88	70 - 125
1,3-Dichlorobenzene	50.0	44.7		ug/L		89	70 - 125
1,4-Dichlorobenzene	50.0	45.1		ug/L		90	70 - 120
Dichlorodifluoromethane	50.0	42.7		ug/L		85	40 - 159
1,1-Dichloroethane	50.0	40.5		ug/L		81	70 - 125

Eurofins TestAmerica, Chicago



# QC Sample Results

Client: Endpoint Solutions Corp  
Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-552227/4**  
**Matrix: Water**  
**Analysis Batch: 552227**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	46.4		ug/L		93	68 - 127
1,1-Dichloroethene	50.0	44.2		ug/L		88	67 - 122
1,2-Dichloropropane	50.0	39.8		ug/L		80	67 - 130
1,3-Dichloropropane	50.0	38.9		ug/L		78	62 - 136
2,2-Dichloropropane	50.0	46.5		ug/L		93	58 - 139
1,1-Dichloropropene	50.0	44.6		ug/L		89	70 - 121
Ethylbenzene	50.0	42.4		ug/L		85	70 - 123
Hexachlorobutadiene	50.0	45.2		ug/L		90	51 - 150
Isopropylbenzene	50.0	41.1		ug/L		82	70 - 126
Methylene Chloride	50.0	43.4		ug/L		87	69 - 125
Methyl tert-butyl ether	50.0	42.2		ug/L		84	55 - 123
Naphthalene	50.0	43.9		ug/L		88	53 - 144
n-Butylbenzene	50.0	42.2		ug/L		84	68 - 125
N-Propylbenzene	50.0	40.9		ug/L		82	69 - 127
p-Isopropyltoluene	50.0	44.2		ug/L		88	70 - 125
sec-Butylbenzene	50.0	41.9		ug/L		84	70 - 123
Styrene	50.0	46.1		ug/L		92	70 - 120
tert-Butylbenzene	50.0	42.5		ug/L		85	70 - 121
1,1,1,2-Tetrachloroethane	50.0	45.9		ug/L		92	70 - 125
1,1,2,2-Tetrachloroethane	50.0	37.0		ug/L		74	62 - 140
Tetrachloroethene	50.0	50.8		ug/L		102	70 - 128
Toluene	50.0	41.9		ug/L		84	70 - 125
trans-1,2-Dichloroethene	50.0	45.0		ug/L		90	70 - 125
trans-1,3-Dichloropropene	50.0	39.5		ug/L		79	62 - 128
1,2,3-Trichlorobenzene	50.0	44.5		ug/L		89	51 - 145
1,2,4-Trichlorobenzene	50.0	44.5		ug/L		89	57 - 137
1,1,1-Trichloroethane	50.0	47.5		ug/L		95	70 - 125
1,1,2-Trichloroethane	50.0	42.2		ug/L		84	71 - 130
Trichloroethene	50.0	52.9		ug/L		106	70 - 125
Trichlorofluoromethane	50.0	46.9		ug/L		94	55 - 128
1,2,3-Trichloropropane	50.0	44.7		ug/L		89	50 - 133
1,2,4-Trimethylbenzene	50.0	41.5		ug/L		83	70 - 123
1,3,5-Trimethylbenzene	50.0	41.7		ug/L		83	70 - 123
Vinyl chloride	50.0	39.1		ug/L		78	64 - 126
Xylenes, Total	100	82.5		ug/L		83	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		72 - 124
Dibromofluoromethane (Surr)	110		75 - 120
1,2-Dichloroethane-d4 (Surr)	106		75 - 126
Toluene-d8 (Surr)	99		75 - 120

**Lab Sample ID: MB 500-552408/6**  
**Matrix: Water**  
**Analysis Batch: 552408**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			07/16/20 11:02	1

Eurofins TestAmerica, Chicago

# QC Sample Results

Client: Endpoint Solutions Corp  
 Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-552408/6**  
**Matrix: Water**  
**Analysis Batch: 552408**

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromobenzene	<0.36		1.0	0.36	ug/L			07/16/20 11:02	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			07/16/20 11:02	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			07/16/20 11:02	1
Bromoform	<0.48		1.0	0.48	ug/L			07/16/20 11:02	1
Bromomethane	<0.80		3.0	0.80	ug/L			07/16/20 11:02	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			07/16/20 11:02	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			07/16/20 11:02	1
Chloroethane	<0.51		1.0	0.51	ug/L			07/16/20 11:02	1
Chloroform	<0.37		2.0	0.37	ug/L			07/16/20 11:02	1
Chloromethane	<0.32		1.0	0.32	ug/L			07/16/20 11:02	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			07/16/20 11:02	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			07/16/20 11:02	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			07/16/20 11:02	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			07/16/20 11:02	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			07/16/20 11:02	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			07/16/20 11:02	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			07/16/20 11:02	1
Dibromomethane	<0.27		1.0	0.27	ug/L			07/16/20 11:02	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			07/16/20 11:02	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			07/16/20 11:02	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			07/16/20 11:02	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			07/16/20 11:02	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			07/16/20 11:02	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			07/16/20 11:02	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			07/16/20 11:02	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			07/16/20 11:02	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			07/16/20 11:02	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			07/16/20 11:02	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			07/16/20 11:02	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			07/16/20 11:02	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			07/16/20 11:02	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			07/16/20 11:02	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			07/16/20 11:02	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			07/16/20 11:02	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			07/16/20 11:02	1
Naphthalene	<0.34		1.0	0.34	ug/L			07/16/20 11:02	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			07/16/20 11:02	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			07/16/20 11:02	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			07/16/20 11:02	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			07/16/20 11:02	1
Styrene	<0.39		1.0	0.39	ug/L			07/16/20 11:02	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			07/16/20 11:02	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			07/16/20 11:02	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			07/16/20 11:02	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			07/16/20 11:02	1
Toluene	<0.15		0.50	0.15	ug/L			07/16/20 11:02	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			07/16/20 11:02	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			07/16/20 11:02	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			07/16/20 11:02	1

Eurofins TestAmerica, Chicago

# QC Sample Results

Client: Endpoint Solutions Corp  
Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-552408/6**  
**Matrix: Water**  
**Analysis Batch: 552408**

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			07/16/20 11:02	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			07/16/20 11:02	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			07/16/20 11:02	1
Trichloroethene	<0.16		0.50	0.16	ug/L			07/16/20 11:02	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			07/16/20 11:02	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			07/16/20 11:02	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			07/16/20 11:02	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			07/16/20 11:02	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			07/16/20 11:02	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			07/16/20 11:02	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	96		72 - 124		07/16/20 11:02	1
Dibromofluoromethane (Surr)	89		75 - 120		07/16/20 11:02	1
1,2-Dichloroethane-d4 (Surr)	103		75 - 126		07/16/20 11:02	1
Toluene-d8 (Surr)	96		75 - 120		07/16/20 11:02	1

**Lab Sample ID: LCS 500-552408/4**  
**Matrix: Water**  
**Analysis Batch: 552408**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Benzene	50.0	44.9		ug/L		90	70 - 120
Bromobenzene	50.0	40.7		ug/L		81	70 - 122
Bromochloromethane	50.0	40.7		ug/L		81	65 - 122
Bromodichloromethane	50.0	40.3		ug/L		81	69 - 120
Bromoform	50.0	32.2		ug/L		64	56 - 132
Bromomethane	50.0	46.5		ug/L		93	40 - 152
Carbon tetrachloride	50.0	43.8		ug/L		88	59 - 133
Chlorobenzene	50.0	44.4		ug/L		89	70 - 120
Chloroethane	50.0	47.2		ug/L		94	48 - 136
Chloroform	50.0	43.0		ug/L		86	70 - 120
Chloromethane	50.0	35.8		ug/L		72	56 - 152
2-Chlorotoluene	50.0	45.1		ug/L		90	70 - 125
4-Chlorotoluene	50.0	45.7		ug/L		91	68 - 124
cis-1,2-Dichloroethene	50.0	42.8		ug/L		86	70 - 125
cis-1,3-Dichloropropene	50.0	39.5		ug/L		79	64 - 127
Dibromochloromethane	50.0	35.3		ug/L		71	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	26.6	*	ug/L		53	56 - 123
1,2-Dibromoethane	50.0	38.2		ug/L		76	70 - 125
Dibromomethane	50.0	41.7		ug/L		83	70 - 120
1,2-Dichlorobenzene	50.0	42.5		ug/L		85	70 - 125
1,3-Dichlorobenzene	50.0	44.2		ug/L		88	70 - 125
1,4-Dichlorobenzene	50.0	43.8		ug/L		88	70 - 120
Dichlorodifluoromethane	50.0	37.3		ug/L		75	40 - 159
1,1-Dichloroethane	50.0	44.6		ug/L		89	70 - 125
1,2-Dichloroethane	50.0	47.3		ug/L		95	68 - 127
1,1-Dichloroethene	50.0	41.7		ug/L		83	67 - 122

Eurofins TestAmerica, Chicago

# QC Sample Results

Client: Endpoint Solutions Corp  
 Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-552408/4**

**Matrix: Water**

**Analysis Batch: 552408**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	50.0	44.3		ug/L		89	67 - 130
1,3-Dichloropropane	50.0	40.6		ug/L		81	62 - 136
2,2-Dichloropropane	50.0	49.8		ug/L		100	58 - 139
1,1-Dichloropropene	50.0	45.6		ug/L		91	70 - 121
Ethylbenzene	50.0	48.2		ug/L		96	70 - 123
Hexachlorobutadiene	50.0	53.9		ug/L		108	51 - 150
Isopropylbenzene	50.0	45.7		ug/L		91	70 - 126
Methylene Chloride	50.0	38.6		ug/L		77	69 - 125
Methyl tert-butyl ether	50.0	43.4		ug/L		87	55 - 123
Naphthalene	50.0	34.4		ug/L		69	53 - 144
n-Butylbenzene	50.0	52.9		ug/L		106	68 - 125
N-Propylbenzene	50.0	48.1		ug/L		96	69 - 127
p-Isopropyltoluene	50.0	50.3		ug/L		101	70 - 125
sec-Butylbenzene	50.0	49.4		ug/L		99	70 - 123
Styrene	50.0	44.0		ug/L		88	70 - 120
tert-Butylbenzene	50.0	47.3		ug/L		95	70 - 121
1,1,1,2-Tetrachloroethane	50.0	41.6		ug/L		83	70 - 125
1,1,2,2-Tetrachloroethane	50.0	34.7		ug/L		69	62 - 140
Tetrachloroethene	50.0	48.2		ug/L		96	70 - 128
Toluene	50.0	46.4		ug/L		93	70 - 125
trans-1,2-Dichloroethene	50.0	44.0		ug/L		88	70 - 125
trans-1,3-Dichloropropene	50.0	37.9		ug/L		76	62 - 128
1,2,3-Trichlorobenzene	50.0	39.8		ug/L		80	51 - 145
1,2,4-Trichlorobenzene	50.0	41.6		ug/L		83	57 - 137
1,1,1-Trichloroethane	50.0	45.1		ug/L		90	70 - 125
1,1,2-Trichloroethane	50.0	40.1		ug/L		80	71 - 130
Trichloroethene	50.0	44.2		ug/L		88	70 - 125
Trichlorofluoromethane	50.0	39.8		ug/L		80	55 - 128
1,2,3-Trichloropropane	50.0	35.3		ug/L		71	50 - 133
1,2,4-Trimethylbenzene	50.0	46.1		ug/L		92	70 - 123
1,3,5-Trimethylbenzene	50.0	47.0		ug/L		94	70 - 123
Vinyl chloride	50.0	39.6		ug/L		79	64 - 126
Xylenes, Total	100	99.3		ug/L		99	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
4-Bromofluorobenzene (Surr)	92		72 - 124
Dibromofluoromethane (Surr)	90		75 - 120
1,2-Dichloroethane-d4 (Surr)	99		75 - 126
Toluene-d8 (Surr)	98		75 - 120

# Lab Chronicle

Client: Endpoint Solutions Corp  
Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

## Client Sample ID: POTW-E-20-3

Date Collected: 07/07/20 08:15

Date Received: 07/08/20 09:30

## Lab Sample ID: 500-184536-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	552227	07/15/20 12:52	JDD	TAL CHI

## Client Sample ID: POTW-I-20-3

Date Collected: 07/07/20 08:20

Date Received: 07/08/20 09:30

## Lab Sample ID: 500-184536-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	552227	07/15/20 13:19	JDD	TAL CHI

## Client Sample ID: POTW-S-20-3

Date Collected: 07/07/20 09:25

Date Received: 07/08/20 09:30

## Lab Sample ID: 500-184536-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	552408	07/16/20 18:52	JDD	TAL CHI
Total/NA	Analysis	8260B	DL	50	552227	07/15/20 13:45	JDD	TAL CHI

## Client Sample ID: MW-3-20-3

Date Collected: 07/07/20 08:30

Date Received: 07/08/20 09:30

## Lab Sample ID: 500-184536-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	552227	07/15/20 14:39	JDD	TAL CHI

## Client Sample ID: MW-1-20-3

Date Collected: 07/07/20 08:40

Date Received: 07/08/20 09:30

## Lab Sample ID: 500-184536-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	552227	07/15/20 15:05	JDD	TAL CHI

## Client Sample ID: MW-4-20-3

Date Collected: 07/07/20 08:50

Date Received: 07/08/20 09:30

## Lab Sample ID: 500-184536-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	552227	07/15/20 15:32	JDD	TAL CHI

## Client Sample ID: DUP1-20-3

Date Collected: 07/07/20 00:00

Date Received: 07/08/20 09:30

## Lab Sample ID: 500-184536-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	552227	07/15/20 15:58	JDD	TAL CHI

Eurofins TestAmerica, Chicago

# Lab Chronicle

Client: Endpoint Solutions Corp  
Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

**Client Sample ID: TB1-20-3**

**Lab Sample ID: 500-184536-8**

**Date Collected: 07/07/20 00:00**

**Matrix: Water**

**Date Received: 07/08/20 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	552227	07/15/20 12:25	JDD	TAL CHI

**Laboratory References:**

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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# Accreditation/Certification Summary

Client: Endpoint Solutions Corp  
Project/Site: Arkema - Saukville 341-020-004

Job ID: 500-184536-1

## Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-20

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## WDNR WELL IDENTIFIERS

Project Name        Retia - Saukville  
 WDNR Facility ID    246004330  
 WDNR Monitoring ID 3082

Well Name	WDNR Code
W-1A	250
Field Blank	997
Trip Blank	999
W-3A	211
W-3B	251
W-4A	252
W-6A	253
W-7	212
W-8R	275
W-14B	255
W-16A	256
W-18A	257
W-19A	258
W-20	259
W-21A	213
W-22	214
W-23	215
W-24A	216
W-25	217
W-27	260
W-28	218
W-29	219
W-30	206
W-37	274
W-38	220
W-39	221
W-40	222
W-41	261
W-42	262
W-43	263
W-44	264
W-45	265
W-46	266
W-47	267
W-48	268
W-49	276
W-50	277
W-51	278
W-52	279
W-53	280
W-54	281
W-55	282
MW-1	201
MW-2	202
MW-3	203
MW-4	204
PW-08	205
RC-1	xx1
RC-2	xx2
RC-3	xx3
POTW-I	xxI
POTW-E	xxE
POTW-S	xxS

NA - Not Applicable, not included in EDD



## Login Sample Receipt Checklist

Client: Endpoint Solutions Corp

Job Number: 500-184536-1

**Login Number: 184536**

**List Source: Eurofins TestAmerica, Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
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	0.4
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 <math><6\text{mm}</math> (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## **APPENDIX B**

QUALITY ASSURANCE/QUALITY CONTROL

## OVERALL SUMMARY OF DATA USABILITY

The content of the data package, including raw data, sample custody records, and field and laboratory QA/QC data were evaluated for consistency with USEPA protocol. The data was also evaluated for compliance with the Data Quality Objectives provided in the project-specific Quality Assurance Plan.

The data package validation procedures were based on the criteria outlined in the “Functional Guidelines for Organic Data Review” (USEPA, 1999) and the “Contract Laboratory Program National Functional Guidelines for Inorganic Data Review” (USEPA, 2002).

The analytical data is usable for this site as qualified.

Endpoint collected six (6) field investigative, one (1) trip blank and one (1) field duplicate samples on July 7, 2020. The samples were delivered via courier to Eurofins TestAmerica (Eurofins), Chicago Environmental Testing in University Park, Illinois Synergy Environmental Lab in Appleton, Wisconsin, in one (1) shipment on July 8, 2020.

The samples were assigned a data set identifier of 500-184536.

### SW846 Method 8260B (VOCs):

<i>MW-1-20-3</i>	<i>MW-3-20-3</i>	<i>MW-4-20-3</i>	<i>DUP1-20-3</i>
<i>POTW-I-20-3</i>	<i>POTW-E-20-3</i>	<i>POTW-S-20-3</i>	<i>TB-1-20-3</i>

Method blanks, matrix spike/matrix spike duplicate (MS/MSD), control spike and control spike duplicates, and surrogate spike data were generated to determine precision and accuracy of the analytical methods.

### **GC/MS ANALYSIS FOR VOLATILE COMPOUNDS (8260)**

Eight (8) sets of samples were analyzed at Eurofins, University Park, Illinois laboratory for the standard (USEPA Method 8260) VOC list. A summary of the QA/QC is as follows.

#### **SAMPLE RECEIPT**

All samples were received by the laboratory on ice.

#### **HOLDING TIMES**

The samples were analyzed on July 15, 2020. All method holding times were met for sample preparation and sample analysis.

#### **CALIBRATION**

All method acceptance criteria were met for the initial calibration and continuing verification.

## METHOD BLANKS

Method blanks were analyzed to assess potential sample contamination resulting from laboratory procedures. A method blank (procedural blank) is carried through the same analytical steps (preparation and analysis) as the samples. All method acceptance criteria were met. The method blank analyses were below method detection limits for all target analytes.

## TRIP BLANKS

One (1) trip blank, TB1-20-3, was provided for analysis. No VOC constituents were detected in this trip blank sample (500-184536-8).

## FIELD DUPLICATE SAMPLES

One (1) Field Duplicates were identified: **DUP1-20-3**. A comparison of the results of the duplicate samples to the parent samples is as follows.

### DUP1-20-3 / MW-4-20-3

Neither the parent sample or the blind duplicate sample contained detectable VOC constituents.

## DILUTIONS

The **POTW-S-20-3** sample was diluted 10:1, due to the presence of elevated concentrations of organic material.

## SURROGATE SPIKES

Surrogates are system monitoring organic compounds that are similar to the analytes of interest in chemical behavior, but not normally found in environmental samples. Laboratory performance on individual samples was established by spiking field investigative samples, quality control samples, and laboratory blanks.

The recoveries of surrogates in all of the samples analyzed were within acceptance criteria.

## TUNING

4-Bromofluorobenzene, dibromofluoromethane, 1,2-dichloroethane-d4 and toluene-d8 tune check analyses were performed throughout the analyses. The target ions and percent abundance for all tune checks were within USEPA established acceptance criteria. All field samples, quality assurance samples, and laboratory blanks were analyzed within the prescribed 12-hour tune window.

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