



ZF Active Safety US Inc.

## **QUARTERLY REPORT NO. 2**

**Former Kelsey-Hayes Company Site  
Milford, Michigan**

Administrative Order By Consent  
EGLE Reference No. AOC-RRD-22-005

March 5, 2024

**QUARTERLY REPORT NO. 2  
FORMER KELSEY-HAYES COMPANY  
MILFORD, MICHIGAN  
ADMINISTRATIVE ORDER BY CONSENT  
EGLE REFERENCE NO. AOC-RRD-22-005**

This quarterly report has been prepared and is being submitted pursuant to Section VII of the Administrative Order By Consent, Reference No. AOC-RRD-22-005 (AOC) issued by the Michigan Department of Environment, Great Lakes, and Energy (EGLE) to ZF Active Safety US Inc. (ZF or Respondent) on September 5, 2023 (effective date), with respect to the former Kelsey-Hayes Company site in Milford, Michigan. This quarterly report provides information regarding performance of response activities that occurred from December 5, 2023, through March 4, 2024, required under the Monitoring Plan and Contingency Plan, which were included in the Technical Summary Report approved by EGLE on January 3, 2023, and submitted as a final document by Respondent on January 20, 2023.

**Chronological Description of Activities Conducted During the Specified Reporting Period**

- Observation wells OW-16D2R1 and OW-16D2R2 were sampled on February 14, 2024. The samples were submitted to Eurofins of Barberton, Ohio (Eurofins) for analysis of volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) Test Method 8260D. Laboratory analytical results were submitted to EGLE and the Village of Milford (VOM) on March 1, 2024. Vinyl chloride was not detected at or above the reporting limit of 1.0 microgram per liter ( $\mu\text{g}/\text{L}$ ) in any of the February 14, 2024 samples. The laboratory analytical report and field sampling logs are included in **Attachment 1**.

**Results of Sampling and Tests and Other Data**

- The laboratory analytical report for samples collected on February 14, 2024, from observation wells OW-16D2R1 and OW-16D2R2, was submitted to EGLE and VOM on March 1, 2024, and is included in **Attachment 1**. Vinyl chloride was not detected at or above the reporting limit of 1.0  $\mu\text{g}/\text{L}$  in any of the February 14, 2024 samples.
- The summary table of laboratory analytical results of samples and field parameters collected from observation wells OW-16D2R1 and OW-16D2R2 was updated to incorporate the laboratory analytical results and field parameters from the February 14, 2024, sampling event and is included in **Attachment 2**.

**Status of Access Issues**

- There were no issues with access during the reporting period.

**Areas of Concern**

- There were no areas of concern identified during the reporting period.

## **Scheduled for the Next Reporting Period**

- Conduct sampling at observation wells OW-16D2R1 and OW-16D2R2 in May 2024, with analysis of VOCs using USEPA Test Method 8260D by Eurofins within 10 to 14 days of sample collection.

## **Attachments**

1. Laboratory Analytical Report and Field Sampling Logs (Observation Wells OW-16D2R1 and OW-16D2R2)
2. Summary Table of Analytical Results of Samples and Field Parameters (Observation Wells OW-16D2R1 and OW-16D2R2)

# **Attachment 1**

**Laboratory Analytical Report and Field Sampling Logs  
(Observation Wells OW-16D2R1 and OW-16D2R2)**

# ANALYTICAL REPORT

## PREPARED FOR

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## JOB DESCRIPTION

TRW Milford

## JOB NUMBER

240-199581-1

Eurofins Cleveland  
180 S. Van Buren Avenue  
Barberton OH 44203

See page two for job notes and contact information.

# Eurofins Cleveland

## 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 North Central, LLC Project Manager.

## Authorization



Authorized for release by  
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# Definitions/Glossary

Client: ZF Active Safety and Electronics LLC  
Project/Site: TRW Milford

Job ID: 240-199581-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## 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

# Case Narrative

Client: ZF Active Safety and Electronics LLC  
Project: TRW Milford

Job ID: 240-199581-1

**Job ID: 240-199581-1**

**Eurofins Cleveland**

## Job Narrative 240-199581-1

Report revised on 3/1/2024 to report the TCL VOC list on all samples.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 2/16/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.1°C and 1.2°C.

### GC/MS VOA

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

Eurofins Cleveland

## Method Summary

Client: ZF Active Safety and Electronics LLC  
Project/Site: TRW Milford

Job ID: 240-199581-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CLE
5030C	Purge and Trap	SW846	EET CLE

**Protocol References:**

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

**Laboratory References:**

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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## Sample Summary

Client: ZF Active Safety and Electronics LLC  
Project/Site: TRW Milford

Job ID: 240-199581-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-199581-1	TRIP BLANK_021424	Water	02/14/24 00:00	02/16/24 08:00
240-199581-2	OW-16D2R1_021424	Water	02/14/24 08:30	02/16/24 08:00
240-199581-3	OW-16D2R2_021424	Water	02/14/24 09:20	02/16/24 08:00
240-199581-4	FIELDBLANK_021424	Water	02/14/24 09:40	02/16/24 08:00
240-199581-5	EQUIPMENTBLANK_021424	Water	02/14/24 09:50	02/16/24 08:00

## Detection Summary

Client: ZF Active Safety and Electronics LLC  
Project/Site: TRW Milford

Job ID: 240-199581-1

**Client Sample ID: TRIP BLANK\_021424**

**Lab Sample ID: 240-199581-1**

No Detections.

**Client Sample ID: OW-16D2R1\_021424**

**Lab Sample ID: 240-199581-2**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.2		1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	22		1.0	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.3		1.0	ug/L	1		8260D	Total/NA

**Client Sample ID: OW-16D2R2\_021424**

**Lab Sample ID: 240-199581-3**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	10		1.0	ug/L	1		8260D	Total/NA

**Client Sample ID: FIELDBLANK\_021424**

**Lab Sample ID: 240-199581-4**

No Detections.

**Client Sample ID: EQUIPMENTBLANK\_021424**

**Lab Sample ID: 240-199581-5**

No Detections.

# Client Sample Results

Client: ZF Active Safety and Electronics LLC  
 Project/Site: TRW Milford

Job ID: 240-199581-1

**Client Sample ID: TRIP BLANK\_021424**

**Lab Sample ID: 240-199581-1**

**Matrix: Water**

Date Collected: 02/14/24 00:00

Date Received: 02/16/24 08:00

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	ug/L		02/22/24 18:31		1
1,1-Dichloroethane	1.0	U	1.0	ug/L		02/22/24 18:31		1
cis-1,2-Dichloroethene	1.0	U	1.0	ug/L		02/22/24 18:31		1
Tetrachloroethene	1.0	U	1.0	ug/L		02/22/24 18:31		1
trans-1,2-Dichloroethene	1.0	U	1.0	ug/L		02/22/24 18:31		1
Trichloroethene	1.0	U	1.0	ug/L		02/22/24 18:31		1
Benzene	1.0	U	1.0	ug/L		02/22/24 18:31		1
cis-1,3-Dichloropropene	1.0	U	1.0	ug/L		02/22/24 18:31		1
Carbon disulfide	1.0	U	1.0	ug/L		02/22/24 18:31		1
Bromoform	1.0	U	1.0	ug/L		02/22/24 18:31		1
1,2-Dichloroethane	1.0	U	1.0	ug/L		02/22/24 18:31		1
1,2-Dichloropropane	1.0	U	1.0	ug/L		02/22/24 18:31		1
1,1,2-Trichloroethane	1.0	U	1.0	ug/L		02/22/24 18:31		1
Acetone	10	U	10	ug/L		02/22/24 18:31		1
Methyl acetate	10	U	10	ug/L		02/22/24 18:31		1
Dichlorodifluoromethane	1.0	U	1.0	ug/L		02/22/24 18:31		1
4-Methyl-2-pentanone (MIBK)	10	U	10	ug/L		02/22/24 18:31		1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	ug/L		02/22/24 18:31		1
Methylene Chloride	5.0	U	5.0	ug/L		02/22/24 18:31		1
Chloromethane	1.0	U	1.0	ug/L		02/22/24 18:31		1
Bromomethane	1.0	U	1.0	ug/L		02/22/24 18:31		1
Chlorodibromomethane	1.0	U	1.0	ug/L		02/22/24 18:31		1
Toluene	1.0	U	1.0	ug/L		02/22/24 18:31		1
1,2,4-Trichlorobenzene	1.0	U	1.0	ug/L		02/22/24 18:31		1
o-Xylene	1.0	U	1.0	ug/L		02/22/24 18:31		1
Chlorobenzene	1.0	U	1.0	ug/L		02/22/24 18:31		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	ug/L		02/22/24 18:31		1
1,3-Dichlorobenzene	1.0	U	1.0	ug/L		02/22/24 18:31		1
Methyl tert-butyl ether	1.0	U	1.0	ug/L		02/22/24 18:31		1
Styrene	1.0	U	1.0	ug/L		02/22/24 18:31		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	ug/L		02/22/24 18:31		1
Chloroethane	1.0	U	1.0	ug/L		02/22/24 18:31		1
1,1-Dichloroethene	1.0	U	1.0	ug/L		02/22/24 18:31		1
1,2-Dichlorobenzene	1.0	U	1.0	ug/L		02/22/24 18:31		1
2-Hexanone	10	U	10	ug/L		02/22/24 18:31		1
2-Butanone (MEK)	10	U	10	ug/L		02/22/24 18:31		1
Ethylbenzene	1.0	U	1.0	ug/L		02/22/24 18:31		1
Isopropylbenzene	1.0	U	1.0	ug/L		02/22/24 18:31		1
Methylcyclohexane	1.0	U	1.0	ug/L		02/22/24 18:31		1
Trichlorofluoromethane	1.0	U	1.0	ug/L		02/22/24 18:31		1
Xylenes, Total	2.0	U	2.0	ug/L		02/22/24 18:31		1
Cyclohexane	1.0	U	1.0	ug/L		02/22/24 18:31		1
trans-1,3-Dichloropropene	1.0	U	1.0	ug/L		02/22/24 18:31		1
Chloroform	1.0	U	1.0	ug/L		02/22/24 18:31		1
m-Xylene & p-Xylene	2.0	U	2.0	ug/L		02/22/24 18:31		1
Vinyl chloride	1.0	U	1.0	ug/L		02/22/24 18:31		1
Ethylene Dibromide	1.0	U	1.0	ug/L		02/22/24 18:31		1
Carbon tetrachloride	1.0	U	1.0	ug/L		02/22/24 18:31		1
1,4-Dichlorobenzene	1.0	U	1.0	ug/L		02/22/24 18:31		1

Eurofins Cleveland

# Client Sample Results

Client: ZF Active Safety and Electronics LLC  
Project/Site: TRW Milford

Job ID: 240-199581-1

**Client Sample ID: TRIP BLANK\_021424**

**Lab Sample ID: 240-199581-1**

Matrix: Water

Date Collected: 02/14/24 00:00  
Date Received: 02/16/24 08:00

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	1.0	U	1.0	ug/L			02/22/24 18:31	1
<hr/>								
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
Toluene-d8 (Surr)	103		78 - 122			02/22/24 18:31	1	
Dibromofluoromethane (Surr)	97		73 - 120			02/22/24 18:31	1	
4-Bromofluorobenzene (Surr)	87		56 - 136			02/22/24 18:31	1	
1,2-Dichloroethane-d4 (Surr)	104		62 - 137			02/22/24 18:31	1	

# Client Sample Results

Client: ZF Active Safety and Electronics LLC  
 Project/Site: TRW Milford

Job ID: 240-199581-1

**Client Sample ID: OW-16D2R1\_021424**

**Lab Sample ID: 240-199581-2**

**Matrix: Water**

Date Collected: 02/14/24 08:30

Date Received: 02/16/24 08:00

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	ug/L		02/22/24 23:57		1
<b>1,1-Dichloroethane</b>	<b>2.2</b>		1.0	ug/L		02/22/24 23:57		1
<b>cis-1,2-Dichloroethene</b>	<b>22</b>		1.0	ug/L		02/22/24 23:57		1
Tetrachloroethene	1.0	U	1.0	ug/L		02/22/24 23:57		1
<b>trans-1,2-Dichloroethene</b>	<b>1.3</b>		1.0	ug/L		02/22/24 23:57		1
Trichloroethene	1.0	U	1.0	ug/L		02/22/24 23:57		1
Benzene	1.0	U	1.0	ug/L		02/22/24 23:57		1
cis-1,3-Dichloropropene	1.0	U	1.0	ug/L		02/22/24 23:57		1
Carbon disulfide	1.0	U	1.0	ug/L		02/22/24 23:57		1
Bromoform	1.0	U	1.0	ug/L		02/22/24 23:57		1
1,2-Dichloroethane	1.0	U	1.0	ug/L		02/22/24 23:57		1
1,2-Dichloropropane	1.0	U	1.0	ug/L		02/22/24 23:57		1
1,1,2-Trichloroethane	1.0	U	1.0	ug/L		02/22/24 23:57		1
Acetone	10	U	10	ug/L		02/22/24 23:57		1
Methyl acetate	10	U	10	ug/L		02/22/24 23:57		1
Dichlorodifluoromethane	1.0	U	1.0	ug/L		02/22/24 23:57		1
4-Methyl-2-pentanone (MIBK)	10	U	10	ug/L		02/22/24 23:57		1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	ug/L		02/22/24 23:57		1
Methylene Chloride	5.0	U	5.0	ug/L		02/22/24 23:57		1
Chloromethane	1.0	U	1.0	ug/L		02/22/24 23:57		1
Bromomethane	1.0	U	1.0	ug/L		02/22/24 23:57		1
Chlorodibromomethane	1.0	U	1.0	ug/L		02/22/24 23:57		1
Toluene	1.0	U	1.0	ug/L		02/22/24 23:57		1
1,2,4-Trichlorobenzene	1.0	U	1.0	ug/L		02/22/24 23:57		1
o-Xylene	1.0	U	1.0	ug/L		02/22/24 23:57		1
Chlorobenzene	1.0	U	1.0	ug/L		02/22/24 23:57		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	ug/L		02/22/24 23:57		1
1,3-Dichlorobenzene	1.0	U	1.0	ug/L		02/22/24 23:57		1
Methyl tert-butyl ether	1.0	U	1.0	ug/L		02/22/24 23:57		1
Styrene	1.0	U	1.0	ug/L		02/22/24 23:57		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	ug/L		02/22/24 23:57		1
Chloroethane	1.0	U	1.0	ug/L		02/22/24 23:57		1
1,1-Dichloroethene	1.0	U	1.0	ug/L		02/22/24 23:57		1
1,2-Dichlorobenzene	1.0	U	1.0	ug/L		02/22/24 23:57		1
2-Hexanone	10	U	10	ug/L		02/22/24 23:57		1
2-Butanone (MEK)	10	U	10	ug/L		02/22/24 23:57		1
Ethylbenzene	1.0	U	1.0	ug/L		02/22/24 23:57		1
Isopropylbenzene	1.0	U	1.0	ug/L		02/22/24 23:57		1
Methylcyclohexane	1.0	U	1.0	ug/L		02/22/24 23:57		1
Trichlorofluoromethane	1.0	U	1.0	ug/L		02/22/24 23:57		1
Xylenes, Total	2.0	U	2.0	ug/L		02/22/24 23:57		1
Cyclohexane	1.0	U	1.0	ug/L		02/22/24 23:57		1
trans-1,3-Dichloropropene	1.0	U	1.0	ug/L		02/22/24 23:57		1
Chloroform	1.0	U	1.0	ug/L		02/22/24 23:57		1
m-Xylene & p-Xylene	2.0	U	2.0	ug/L		02/22/24 23:57		1
Vinyl chloride	1.0	U	1.0	ug/L		02/22/24 23:57		1
Ethylene Dibromide	1.0	U	1.0	ug/L		02/22/24 23:57		1
Carbon tetrachloride	1.0	U	1.0	ug/L		02/22/24 23:57		1
1,4-Dichlorobenzene	1.0	U	1.0	ug/L		02/22/24 23:57		1

Eurofins Cleveland

# Client Sample Results

Client: ZF Active Safety and Electronics LLC  
Project/Site: TRW Milford

Job ID: 240-199581-1

**Client Sample ID: OW-16D2R1\_021424**

**Lab Sample ID: 240-199581-2**

Matrix: Water

Date Collected: 02/14/24 08:30  
Date Received: 02/16/24 08:00

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	1.0	U	1.0	ug/L			02/22/24 23:57	1
<hr/>								
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
Toluene-d8 (Surr)	102		78 - 122			02/22/24 23:57	1	
Dibromofluoromethane (Surr)	102		73 - 120			02/22/24 23:57	1	
4-Bromofluorobenzene (Surr)	86		56 - 136			02/22/24 23:57	1	
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			02/22/24 23:57	1	

# Client Sample Results

Client: ZF Active Safety and Electronics LLC  
 Project/Site: TRW Milford

Job ID: 240-199581-1

**Client Sample ID: OW-16D2R2\_021424**

**Lab Sample ID: 240-199581-3**

**Matrix: Water**

Date Collected: 02/14/24 09:20  
 Date Received: 02/16/24 08:00

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	ug/L		02/23/24 00:22		1
1,1-Dichloroethane	1.0	U	1.0	ug/L		02/23/24 00:22		1
<b>cis-1,2-Dichloroethene</b>	<b>10</b>		1.0	ug/L		02/23/24 00:22		1
Tetrachloroethene	1.0	U	1.0	ug/L		02/23/24 00:22		1
trans-1,2-Dichloroethene	1.0	U	1.0	ug/L		02/23/24 00:22		1
Trichloroethene	1.0	U	1.0	ug/L		02/23/24 00:22		1
Benzene	1.0	U	1.0	ug/L		02/23/24 00:22		1
cis-1,3-Dichloropropene	1.0	U	1.0	ug/L		02/23/24 00:22		1
Carbon disulfide	1.0	U	1.0	ug/L		02/23/24 00:22		1
Bromoform	1.0	U	1.0	ug/L		02/23/24 00:22		1
1,2-Dichloroethane	1.0	U	1.0	ug/L		02/23/24 00:22		1
1,2-Dichloropropane	1.0	U	1.0	ug/L		02/23/24 00:22		1
1,1,2-Trichloroethane	1.0	U	1.0	ug/L		02/23/24 00:22		1
Acetone	10	U	10	ug/L		02/23/24 00:22		1
Methyl acetate	10	U	10	ug/L		02/23/24 00:22		1
Dichlorodifluoromethane	1.0	U	1.0	ug/L		02/23/24 00:22		1
4-Methyl-2-pentanone (MIBK)	10	U	10	ug/L		02/23/24 00:22		1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	ug/L		02/23/24 00:22		1
Methylene Chloride	5.0	U	5.0	ug/L		02/23/24 00:22		1
Chloromethane	1.0	U	1.0	ug/L		02/23/24 00:22		1
Bromomethane	1.0	U	1.0	ug/L		02/23/24 00:22		1
Chlorodibromomethane	1.0	U	1.0	ug/L		02/23/24 00:22		1
Toluene	1.0	U	1.0	ug/L		02/23/24 00:22		1
1,2,4-Trichlorobenzene	1.0	U	1.0	ug/L		02/23/24 00:22		1
o-Xylene	1.0	U	1.0	ug/L		02/23/24 00:22		1
Chlorobenzene	1.0	U	1.0	ug/L		02/23/24 00:22		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	ug/L		02/23/24 00:22		1
1,3-Dichlorobenzene	1.0	U	1.0	ug/L		02/23/24 00:22		1
Methyl tert-butyl ether	1.0	U	1.0	ug/L		02/23/24 00:22		1
Styrene	1.0	U	1.0	ug/L		02/23/24 00:22		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	ug/L		02/23/24 00:22		1
Chloroethane	1.0	U	1.0	ug/L		02/23/24 00:22		1
1,1-Dichloroethene	1.0	U	1.0	ug/L		02/23/24 00:22		1
1,2-Dichlorobenzene	1.0	U	1.0	ug/L		02/23/24 00:22		1
2-Hexanone	10	U	10	ug/L		02/23/24 00:22		1
2-Butanone (MEK)	10	U	10	ug/L		02/23/24 00:22		1
Ethylbenzene	1.0	U	1.0	ug/L		02/23/24 00:22		1
Isopropylbenzene	1.0	U	1.0	ug/L		02/23/24 00:22		1
Methylcyclohexane	1.0	U	1.0	ug/L		02/23/24 00:22		1
Trichlorofluoromethane	1.0	U	1.0	ug/L		02/23/24 00:22		1
Xylenes, Total	2.0	U	2.0	ug/L		02/23/24 00:22		1
Cyclohexane	1.0	U	1.0	ug/L		02/23/24 00:22		1
trans-1,3-Dichloropropene	1.0	U	1.0	ug/L		02/23/24 00:22		1
Chloroform	1.0	U	1.0	ug/L		02/23/24 00:22		1
m-Xylene & p-Xylene	2.0	U	2.0	ug/L		02/23/24 00:22		1
Vinyl chloride	1.0	U	1.0	ug/L		02/23/24 00:22		1
Ethylene Dibromide	1.0	U	1.0	ug/L		02/23/24 00:22		1
Carbon tetrachloride	1.0	U	1.0	ug/L		02/23/24 00:22		1
1,4-Dichlorobenzene	1.0	U	1.0	ug/L		02/23/24 00:22		1

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# Client Sample Results

Client: ZF Active Safety and Electronics LLC  
Project/Site: TRW Milford

Job ID: 240-199581-1

**Client Sample ID: OW-16D2R2\_021424**

**Lab Sample ID: 240-199581-3**

Matrix: Water

Date Collected: 02/14/24 09:20  
Date Received: 02/16/24 08:00

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	1.0	U	1.0	ug/L			02/23/24 00:22	1
<hr/>								
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
Toluene-d8 (Surr)	103		78 - 122			02/23/24 00:22	1	
Dibromofluoromethane (Surr)	101		73 - 120			02/23/24 00:22	1	
4-Bromofluorobenzene (Surr)	84		56 - 136			02/23/24 00:22	1	
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			02/23/24 00:22	1	

# Client Sample Results

Client: ZF Active Safety and Electronics LLC  
 Project/Site: TRW Milford

Job ID: 240-199581-1

**Client Sample ID: FIELDBLANK\_021424**

**Lab Sample ID: 240-199581-4**

**Matrix: Water**

Date Collected: 02/14/24 09:40

Date Received: 02/16/24 08:00

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	ug/L		02/23/24 00:47		1
1,1-Dichloroethane	1.0	U	1.0	ug/L		02/23/24 00:47		1
cis-1,2-Dichloroethene	1.0	U	1.0	ug/L		02/23/24 00:47		1
Tetrachloroethene	1.0	U	1.0	ug/L		02/23/24 00:47		1
trans-1,2-Dichloroethene	1.0	U	1.0	ug/L		02/23/24 00:47		1
Trichloroethene	1.0	U	1.0	ug/L		02/23/24 00:47		1
Benzene	1.0	U	1.0	ug/L		02/23/24 00:47		1
cis-1,3-Dichloropropene	1.0	U	1.0	ug/L		02/23/24 00:47		1
Carbon disulfide	1.0	U	1.0	ug/L		02/23/24 00:47		1
Bromoform	1.0	U	1.0	ug/L		02/23/24 00:47		1
1,2-Dichloroethane	1.0	U	1.0	ug/L		02/23/24 00:47		1
1,2-Dichloropropane	1.0	U	1.0	ug/L		02/23/24 00:47		1
1,1,2-Trichloroethane	1.0	U	1.0	ug/L		02/23/24 00:47		1
Acetone	10	U	10	ug/L		02/23/24 00:47		1
Methyl acetate	10	U	10	ug/L		02/23/24 00:47		1
Dichlorodifluoromethane	1.0	U	1.0	ug/L		02/23/24 00:47		1
4-Methyl-2-pentanone (MIBK)	10	U	10	ug/L		02/23/24 00:47		1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	ug/L		02/23/24 00:47		1
Methylene Chloride	5.0	U	5.0	ug/L		02/23/24 00:47		1
Chloromethane	1.0	U	1.0	ug/L		02/23/24 00:47		1
Bromomethane	1.0	U	1.0	ug/L		02/23/24 00:47		1
Chlorodibromomethane	1.0	U	1.0	ug/L		02/23/24 00:47		1
Toluene	1.0	U	1.0	ug/L		02/23/24 00:47		1
1,2,4-Trichlorobenzene	1.0	U	1.0	ug/L		02/23/24 00:47		1
o-Xylene	1.0	U	1.0	ug/L		02/23/24 00:47		1
Chlorobenzene	1.0	U	1.0	ug/L		02/23/24 00:47		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	ug/L		02/23/24 00:47		1
1,3-Dichlorobenzene	1.0	U	1.0	ug/L		02/23/24 00:47		1
Methyl tert-butyl ether	1.0	U	1.0	ug/L		02/23/24 00:47		1
Styrene	1.0	U	1.0	ug/L		02/23/24 00:47		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	ug/L		02/23/24 00:47		1
Chloroethane	1.0	U	1.0	ug/L		02/23/24 00:47		1
1,1-Dichloroethene	1.0	U	1.0	ug/L		02/23/24 00:47		1
1,2-Dichlorobenzene	1.0	U	1.0	ug/L		02/23/24 00:47		1
2-Hexanone	10	U	10	ug/L		02/23/24 00:47		1
2-Butanone (MEK)	10	U	10	ug/L		02/23/24 00:47		1
Ethylbenzene	1.0	U	1.0	ug/L		02/23/24 00:47		1
Isopropylbenzene	1.0	U	1.0	ug/L		02/23/24 00:47		1
Methylcyclohexane	1.0	U	1.0	ug/L		02/23/24 00:47		1
Trichlorofluoromethane	1.0	U	1.0	ug/L		02/23/24 00:47		1
Xylenes, Total	2.0	U	2.0	ug/L		02/23/24 00:47		1
Cyclohexane	1.0	U	1.0	ug/L		02/23/24 00:47		1
trans-1,3-Dichloropropene	1.0	U	1.0	ug/L		02/23/24 00:47		1
Chloroform	1.0	U	1.0	ug/L		02/23/24 00:47		1
m-Xylene & p-Xylene	2.0	U	2.0	ug/L		02/23/24 00:47		1
Vinyl chloride	1.0	U	1.0	ug/L		02/23/24 00:47		1
Ethylene Dibromide	1.0	U	1.0	ug/L		02/23/24 00:47		1
Carbon tetrachloride	1.0	U	1.0	ug/L		02/23/24 00:47		1
1,4-Dichlorobenzene	1.0	U	1.0	ug/L		02/23/24 00:47		1

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# Client Sample Results

Client: ZF Active Safety and Electronics LLC  
Project/Site: TRW Milford

Job ID: 240-199581-1

**Client Sample ID: FIELDBLANK\_021424**

**Lab Sample ID: 240-199581-4**

Matrix: Water

Date Collected: 02/14/24 09:40  
Date Received: 02/16/24 08:00

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	1.0	U	1.0	ug/L			02/23/24 00:47	1
<hr/>								
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
Toluene-d8 (Surr)	105		78 - 122			02/23/24 00:47	1	
Dibromofluoromethane (Surr)	101		73 - 120			02/23/24 00:47	1	
4-Bromofluorobenzene (Surr)	85		56 - 136			02/23/24 00:47	1	
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			02/23/24 00:47	1	

# Client Sample Results

Client: ZF Active Safety and Electronics LLC  
 Project/Site: TRW Milford

Job ID: 240-199581-1

**Client Sample ID: EQUIPMENTBLANK\_021424**

**Lab Sample ID: 240-199581-5**

**Matrix: Water**

Date Collected: 02/14/24 09:50  
 Date Received: 02/16/24 08:00

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	ug/L		02/23/24 01:12		1
1,1-Dichloroethane	1.0	U	1.0	ug/L		02/23/24 01:12		1
cis-1,2-Dichloroethene	1.0	U	1.0	ug/L		02/23/24 01:12		1
Tetrachloroethene	1.0	U	1.0	ug/L		02/23/24 01:12		1
trans-1,2-Dichloroethene	1.0	U	1.0	ug/L		02/23/24 01:12		1
Trichloroethene	1.0	U	1.0	ug/L		02/23/24 01:12		1
Benzene	1.0	U	1.0	ug/L		02/23/24 01:12		1
cis-1,3-Dichloropropene	1.0	U	1.0	ug/L		02/23/24 01:12		1
Carbon disulfide	1.0	U	1.0	ug/L		02/23/24 01:12		1
Bromoform	1.0	U	1.0	ug/L		02/23/24 01:12		1
1,2-Dichloroethane	1.0	U	1.0	ug/L		02/23/24 01:12		1
1,2-Dichloropropane	1.0	U	1.0	ug/L		02/23/24 01:12		1
1,1,2-Trichloroethane	1.0	U	1.0	ug/L		02/23/24 01:12		1
Acetone	10	U	10	ug/L		02/23/24 01:12		1
Methyl acetate	10	U	10	ug/L		02/23/24 01:12		1
Dichlorodifluoromethane	1.0	U	1.0	ug/L		02/23/24 01:12		1
4-Methyl-2-pentanone (MIBK)	10	U	10	ug/L		02/23/24 01:12		1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	ug/L		02/23/24 01:12		1
Methylene Chloride	5.0	U	5.0	ug/L		02/23/24 01:12		1
Chloromethane	1.0	U	1.0	ug/L		02/23/24 01:12		1
Bromomethane	1.0	U	1.0	ug/L		02/23/24 01:12		1
Chlorodibromomethane	1.0	U	1.0	ug/L		02/23/24 01:12		1
Toluene	1.0	U	1.0	ug/L		02/23/24 01:12		1
1,2,4-Trichlorobenzene	1.0	U	1.0	ug/L		02/23/24 01:12		1
o-Xylene	1.0	U	1.0	ug/L		02/23/24 01:12		1
Chlorobenzene	1.0	U	1.0	ug/L		02/23/24 01:12		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	ug/L		02/23/24 01:12		1
1,3-Dichlorobenzene	1.0	U	1.0	ug/L		02/23/24 01:12		1
Methyl tert-butyl ether	1.0	U	1.0	ug/L		02/23/24 01:12		1
Styrene	1.0	U	1.0	ug/L		02/23/24 01:12		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	ug/L		02/23/24 01:12		1
Chloroethane	1.0	U	1.0	ug/L		02/23/24 01:12		1
1,1-Dichloroethene	1.0	U	1.0	ug/L		02/23/24 01:12		1
1,2-Dichlorobenzene	1.0	U	1.0	ug/L		02/23/24 01:12		1
2-Hexanone	10	U	10	ug/L		02/23/24 01:12		1
2-Butanone (MEK)	10	U	10	ug/L		02/23/24 01:12		1
Ethylbenzene	1.0	U	1.0	ug/L		02/23/24 01:12		1
Isopropylbenzene	1.0	U	1.0	ug/L		02/23/24 01:12		1
Methylcyclohexane	1.0	U	1.0	ug/L		02/23/24 01:12		1
Trichlorofluoromethane	1.0	U	1.0	ug/L		02/23/24 01:12		1
Xylenes, Total	2.0	U	2.0	ug/L		02/23/24 01:12		1
Cyclohexane	1.0	U	1.0	ug/L		02/23/24 01:12		1
trans-1,3-Dichloropropene	1.0	U	1.0	ug/L		02/23/24 01:12		1
Chloroform	1.0	U	1.0	ug/L		02/23/24 01:12		1
m-Xylene & p-Xylene	2.0	U	2.0	ug/L		02/23/24 01:12		1
Vinyl chloride	1.0	U	1.0	ug/L		02/23/24 01:12		1
Ethylene Dibromide	1.0	U	1.0	ug/L		02/23/24 01:12		1
Carbon tetrachloride	1.0	U	1.0	ug/L		02/23/24 01:12		1
1,4-Dichlorobenzene	1.0	U	1.0	ug/L		02/23/24 01:12		1

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# Client Sample Results

Client: ZF Active Safety and Electronics LLC  
Project/Site: TRW Milford

Job ID: 240-199581-1

**Client Sample ID: EQUIPMENTBLANK\_021424**

**Lab Sample ID: 240-199581-5**

Matrix: Water

Date Collected: 02/14/24 09:50  
Date Received: 02/16/24 08:00

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	1.0	U	1.0	ug/L			02/23/24 01:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		78 - 122				02/23/24 01:12	1
Dibromofluoromethane (Surr)	101		73 - 120				02/23/24 01:12	1
4-Bromofluorobenzene (Surr)	88		56 - 136				02/23/24 01:12	1
1,2-Dichloroethane-d4 (Surr)	108		62 - 137				02/23/24 01:12	1

# Surrogate Summary

Client: ZF Active Safety and Electronics LLC  
Project/Site: TRW Milford

Job ID: 240-199581-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TOL (78-122)	DBFM (73-120)	BFB (56-136)	DCA (62-137)
240-199581-1	TRIP BLANK_021424	103	97	87	104
240-199581-2	OW-16D2R1_021424	102	102	86	106
240-199581-3	OW-16D2R2_021424	103	101	84	107
240-199581-4	FIELDBLANK_021424	105	101	85	107
240-199581-5	EQUIPMENTBLANK_021424	103	101	88	108
LCS 240-603958/4	Lab Control Sample	104	95	105	97
MB 240-603958/6	Method Blank	103	97	85	102

#### Surrogate Legend

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

BFB = 4-Bromofluorobenzene (Surr)

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

# QC Sample Results

Client: ZF Active Safety and Electronics LLC  
 Project/Site: TRW Milford

Job ID: 240-199581-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 240-603958/6**

**Matrix: Water**

**Analysis Batch: 603958**

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	ug/L		02/22/24 17:41		1
1,1-Dichloroethane	1.0	U	1.0	ug/L		02/22/24 17:41		1
cis-1,2-Dichloroethene	1.0	U	1.0	ug/L		02/22/24 17:41		1
Tetrachloroethene	1.0	U	1.0	ug/L		02/22/24 17:41		1
trans-1,2-Dichloroethene	1.0	U	1.0	ug/L		02/22/24 17:41		1
Trichloroethene	1.0	U	1.0	ug/L		02/22/24 17:41		1
Benzene	1.0	U	1.0	ug/L		02/22/24 17:41		1
cis-1,3-Dichloropropene	1.0	U	1.0	ug/L		02/22/24 17:41		1
Carbon disulfide	1.0	U	1.0	ug/L		02/22/24 17:41		1
Bromoform	1.0	U	1.0	ug/L		02/22/24 17:41		1
1,2-Dichloroethane	1.0	U	1.0	ug/L		02/22/24 17:41		1
1,2-Dichloropropane	1.0	U	1.0	ug/L		02/22/24 17:41		1
1,1,2-Trichloroethane	1.0	U	1.0	ug/L		02/22/24 17:41		1
Acetone	10	U	10	ug/L		02/22/24 17:41		1
Methyl acetate	10	U	10	ug/L		02/22/24 17:41		1
Dichlorodifluoromethane	1.0	U	1.0	ug/L		02/22/24 17:41		1
4-Methyl-2-pentanone (MIBK)	10	U	10	ug/L		02/22/24 17:41		1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	ug/L		02/22/24 17:41		1
Methylene Chloride	5.0	U	5.0	ug/L		02/22/24 17:41		1
Chloromethane	1.0	U	1.0	ug/L		02/22/24 17:41		1
Bromomethane	1.0	U	1.0	ug/L		02/22/24 17:41		1
Chlorodibromomethane	1.0	U	1.0	ug/L		02/22/24 17:41		1
Toluene	1.0	U	1.0	ug/L		02/22/24 17:41		1
1,2,4-Trichlorobenzene	1.0	U	1.0	ug/L		02/22/24 17:41		1
o-Xylene	1.0	U	1.0	ug/L		02/22/24 17:41		1
Chlorobenzene	1.0	U	1.0	ug/L		02/22/24 17:41		1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	ug/L		02/22/24 17:41		1
1,3-Dichlorobenzene	1.0	U	1.0	ug/L		02/22/24 17:41		1
Methyl tert-butyl ether	1.0	U	1.0	ug/L		02/22/24 17:41		1
Styrene	1.0	U	1.0	ug/L		02/22/24 17:41		1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	ug/L		02/22/24 17:41		1
Chloroethane	1.0	U	1.0	ug/L		02/22/24 17:41		1
1,1-Dichloroethene	1.0	U	1.0	ug/L		02/22/24 17:41		1
1,2-Dichlorobenzene	1.0	U	1.0	ug/L		02/22/24 17:41		1
2-Hexanone	10	U	10	ug/L		02/22/24 17:41		1
2-Butanone (MEK)	10	U	10	ug/L		02/22/24 17:41		1
Ethylbenzene	1.0	U	1.0	ug/L		02/22/24 17:41		1
Isopropylbenzene	1.0	U	1.0	ug/L		02/22/24 17:41		1
Methylcyclohexane	1.0	U	1.0	ug/L		02/22/24 17:41		1
Trichlorofluoromethane	1.0	U	1.0	ug/L		02/22/24 17:41		1
Xylenes, Total	2.0	U	2.0	ug/L		02/22/24 17:41		1
Cyclohexane	1.0	U	1.0	ug/L		02/22/24 17:41		1
trans-1,3-Dichloropropene	1.0	U	1.0	ug/L		02/22/24 17:41		1
Chloroform	1.0	U	1.0	ug/L		02/22/24 17:41		1
m-Xylene & p-Xylene	2.0	U	2.0	ug/L		02/22/24 17:41		1
Vinyl chloride	1.0	U	1.0	ug/L		02/22/24 17:41		1
Ethylene Dibromide	1.0	U	1.0	ug/L		02/22/24 17:41		1
Carbon tetrachloride	1.0	U	1.0	ug/L		02/22/24 17:41		1

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# QC Sample Results

Client: ZF Active Safety and Electronics LLC  
Project/Site: TRW Milford

Job ID: 240-199581-1

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

**Lab Sample ID: MB 240-603958/6**

**Matrix: Water**

**Analysis Batch: 603958**

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,4-Dichlorobenzene	1.0	U	1.0	ug/L			02/22/24 17:41	1
Dichlorobromomethane	1.0	U	1.0	ug/L			02/22/24 17:41	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac		
	%Recovery	Qualifier						
Toluene-d8 (Surr)	103		78 - 122				02/22/24 17:41	1
Dibromofluoromethane (Surr)	97		73 - 120				02/22/24 17:41	1
4-Bromofluorobenzene (Surr)	85		56 - 136				02/22/24 17:41	1
1,2-Dichloroethane-d4 (Surr)	102		62 - 137				02/22/24 17:41	1

**Lab Sample ID: LCS 240-603958/4**

**Matrix: Water**

**Analysis Batch: 603958**

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

Analyte	MB	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier	Limits				
1,1,1-Trichloroethane		25.0	29.6	ug/L		118	64 - 131	
1,1-Dichloroethane		25.0	25.1	ug/L		100	72 - 127	
cis-1,2-Dichloroethene		25.0	25.3	ug/L		101	77 - 123	
Tetrachloroethene		25.0	25.3	ug/L		101	76 - 123	
trans-1,2-Dichloroethene		25.0	25.7	ug/L		103	75 - 124	
Trichloroethene		25.0	24.0	ug/L		96	70 - 122	
Benzene		25.0	25.5	ug/L		102	77 - 123	
cis-1,3-Dichloropropene		25.0	24.6	ug/L		99	64 - 130	
Carbon disulfide		25.0	24.1	ug/L		96	43 - 140	
Bromoform		25.0	23.6	ug/L		95	57 - 129	
1,2-Dichloroethane		25.0	23.6	ug/L		95	66 - 128	
1,2-Dichloropropane		25.0	27.2	ug/L		109	75 - 133	
1,1,2-Trichloroethane		25.0	27.1	ug/L		108	70 - 138	
Acetone		50.0	73.9	ug/L		148	50 - 149	
Methyl acetate		50.0	57.7	ug/L		115	42 - 169	
Dichlorodifluoromethane		12.5	8.35	ug/L		67	34 - 153	
4-Methyl-2-pentanone (MIBK)		50.0	64.2	ug/L		128	46 - 158	
1,1,2-Trichloro-1,2,2-trifluoroethane		25.0	26.3	ug/L		105	51 - 146	
Methylene Chloride		25.0	24.8	ug/L		99	71 - 125	
Chloromethane		12.5	11.8	ug/L		94	47 - 143	
Bromomethane		12.5	10.0	ug/L		80	36 - 142	
Chlorodibromomethane		25.0	24.5	ug/L		98	70 - 124	
Toluene		25.0	25.6	ug/L		102	80 - 123	
1,2,4-Trichlorobenzene		25.0	25.3	ug/L		101	44 - 147	
o-Xylene		25.0	28.9	ug/L		116	80 - 123	
Chlorobenzene		25.0	25.8	ug/L		103	80 - 121	
1,2-Dibromo-3-Chloropropane		25.0	24.4	ug/L		98	53 - 135	
1,3-Dichlorobenzene		25.0	26.4	ug/L		105	80 - 120	
Methyl tert-butyl ether		25.0	24.8	ug/L		99	65 - 126	
Styrene		25.0	27.1	ug/L		108	80 - 135	
1,1,2,2-Tetrachloroethane		25.0	28.2	ug/L		113	58 - 157	
Chloroethane		12.5	12.0	ug/L		96	38 - 152	
1,1-Dichloroethene		25.0	25.7	ug/L		103	63 - 134	
1,2-Dichlorobenzene		25.0	27.1	ug/L		108	78 - 120	

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# QC Sample Results

Client: ZF Active Safety and Electronics LLC  
 Project/Site: TRW Milford

Job ID: 240-199581-1

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

**Lab Sample ID: LCS 240-603958/4**

**Matrix: Water**

**Analysis Batch: 603958**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2-Hexanone	50.0	69.0		ug/L		138	43 - 167
2-Butanone (MEK)	50.0	57.9		ug/L		116	54 - 156
Ethylbenzene	25.0	28.6		ug/L		114	80 - 121
Isopropylbenzene	25.0	26.5		ug/L		106	74 - 128
Methylcyclohexane	25.0	26.3		ug/L		105	62 - 136
Trichlorofluoromethane	12.5	12.8		ug/L		102	30 - 170
Xylenes, Total	50.0	58.0		ug/L		116	80 - 121
Cyclohexane	25.0	28.5		ug/L		114	58 - 146
trans-1,3-Dichloropropene	25.0	27.5		ug/L		110	57 - 129
Chloroform	25.0	24.3		ug/L		97	74 - 122
m-Xylene & p-Xylene	25.0	29.1		ug/L		116	80 - 120
Vinyl chloride	12.5	10.5		ug/L		84	60 - 144
Ethylene Dibromide	25.0	26.9		ug/L		108	71 - 134
Carbon tetrachloride	25.0	34.2		ug/L		137	55 - 137
1,4-Dichlorobenzene	25.0	26.1		ug/L		104	80 - 120
Dichlorobromomethane	25.0	23.7		ug/L		95	69 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	104		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120
4-Bromofluorobenzene (Surr)	105		56 - 136
1,2-Dichloroethane-d4 (Surr)	97		62 - 137

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# QC Association Summary

Client: ZF Active Safety and Electronics LLC  
Project/Site: TRW Milford

Job ID: 240-199581-1

## GC/MS VOA

Analysis Batch: 603958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-199581-1	TRIP BLANK_021424	Total/NA	Water	8260D	
240-199581-2	OW-16D2R1_021424	Total/NA	Water	8260D	
240-199581-3	OW-16D2R2_021424	Total/NA	Water	8260D	
240-199581-4	FIELDBLANK_021424	Total/NA	Water	8260D	
240-199581-5	EQUIPMENTBLANK_021424	Total/NA	Water	8260D	
MB 240-603958/6	Method Blank	Total/NA	Water	8260D	
LCS 240-603958/4	Lab Control Sample	Total/NA	Water	8260D	

# Lab Chronicle

Client: ZF Active Safety and Electronics LLC  
Project/Site: TRW Milford

Job ID: 240-199581-1

**Client Sample ID: TRIP BLANK\_021424**

**Lab Sample ID: 240-199581-1**

Matrix: Water

Date Collected: 02/14/24 00:00  
Date Received: 02/16/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	603958	CDG	EET CLE	02/22/24 18:31

**Client Sample ID: OW-16D2R1\_021424**

**Lab Sample ID: 240-199581-2**

Matrix: Water

Date Collected: 02/14/24 08:30  
Date Received: 02/16/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	603958	CDG	EET CLE	02/22/24 23:57

**Client Sample ID: OW-16D2R2\_021424**

**Lab Sample ID: 240-199581-3**

Matrix: Water

Date Collected: 02/14/24 09:20  
Date Received: 02/16/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	603958	CDG	EET CLE	02/23/24 00:22

**Client Sample ID: FIELDBLANK\_021424**

**Lab Sample ID: 240-199581-4**

Matrix: Water

Date Collected: 02/14/24 09:40  
Date Received: 02/16/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	603958	CDG	EET CLE	02/23/24 00:47

**Client Sample ID: EQUIPMENTBLANK\_021424**

**Lab Sample ID: 240-199581-5**

Matrix: Water

Date Collected: 02/14/24 09:50  
Date Received: 02/16/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	603958	CDG	EET CLE	02/23/24 01:12

## Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Eurofins Cleveland

# Accreditation/Certification Summary

Client: ZF Active Safety and Electronics LLC  
Project/Site: TRW Milford

Job ID: 240-199581-1

## Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24
Georgia	State	4062	02-27-24
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-30-24
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-01-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-27-24
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

1.1/1.1

STL North Canton		TRW Chain Of Custody / Analysis Request									
4101 Shurtel Drive NW North Canton, OH 44720 Attn: Michael DelMonico		Privileged & Confidential Yes					Site Name: Milford				
Project Type: Groundwater Sampling - IZ		TRW PO No. 30181256.000CZ					Site Location: Milford, Michigan				
TRW PM: (name, company, address, e-mail)		Database Manager: (name, company, address, E-mail)					Preservatives Code				
Bob Bleazard		Christina Weaver									
11202 East German Road Mesa, AZ 85212 bob.bleazard@trw.com		20550 Cabot Drive, Suite 500 Novi, MI 48377 christina.weaver@arcadis.com									
Analysis Level		Level 1 (Routine Report)					Sampler SCOTT FILIPAK				
TAT		10 Business Days (Standard - Level 1)					Deliverable EDD/PDF (e-mail)				
Sample Identification and Information											
Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	No. of Cont.	Grab or Composite	Field Filtered
1 TRIP_BLANK	--	--	TRIP_BLANK_021424			GW	WATER	QC	1	G	X X X X X X
2 SW-160221	--	--	SW-160221-021424	0830	GW			3 G			X X X X X X
3 SW-160222	--	--	SW-160222-021424	0920	GW			3 G			X X X X X X
4 —	--	--	FIELD_BLANK_021424	0940	GW			3 G			X X X X X X
5 WLM	--	--	COMPONENTBLANK_021424	0950	GW			3 C			X X X X X X
6	--	--									
7	--	--									
8	--	--									
9											
10											
Special Instructions:											
Relinquished by: <i>Scott Filipak</i>	Company: <i>Arcadis</i>	Date/Time: <i>2/15/24</i>	Received by: <i>J. Morosko</i>	Company: <i>EPA</i>	Date/Time: <i>2/15/24 9:45</i>	Condition: <i>9:45</i>	Custody Seals Intact				
Relinquished by: <i>W.M. Dill</i>	Company: <i>ETI</i>	Date/Time: <i>2/15/24 9:45</i>	Received by: <i>J. Morosko</i>	Company: <i>EPA</i>	Date/Time: <i>02/16/24 0800</i>	Condition: <i>0800</i>	Custody Seals Intact				
Relinquished by:	Company	Date/Time	Received by:	Company	Date/Time	Condition	Custody Seals Intact				
Relinquished by:	Company	Date/Time	Received by:	Company	Date/Time	Condition	Custody Seals Intact				
Preservatives Code: 0 = None; 1 = HCL; 2 = HNO3; 3 = H2SO4; 4 = NaOH; 5 = Zn. Acetate; 6 = MeOH; 7 = NaHSO4; 8 - Other (specify):											

Eurosins - Cleveland Sample Receipt Form/Narrative  
Barberton Facility

Login #: 199581

Client <u>TRIN</u>	Site Name _____	Cooler unpacked by: <u>J. marosko</u>
Cooler Received on <u>02/11/124</u>	Opened on <u>02/11/124</u>	
FedEx: 1 <sup>st</sup> Grd Exp UPS FAS Waypoint	Client Drop Off	Eurofins Courier Other
Receipt After-hours: Drop-off Date/Time		Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt.  See Multiple Cooler Form

IR GUN # 29 (CF +/-) °C Observed Cooler Temp. 1 °C Corrected Cooler Temp.   °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1

Yes No

Yes No NA

Yes No

Yes No NA

Yes No

**Eurofins - Canton Sample Receipt Multiple Cooler Form**

**Sea Temperature Excursion Form**

ARCADIS

## YSI/LOW FLOW SAMPLING LOG

PAGE 1 OF 1

WELL : OW-16D2R1

PROJ #: 30181256

DATE : 2/14/2024 Scott Filipiak

LOC: Former Kelsey Hayes Milford

ARCADIS

## YSI/LOW FLOW SAMPLING LOG

PAGE 1 OF 1

WELL : OW-16D2R2

PROJ #: 30181256

DATE : 2/14/2024 Scott Filipiak

LOC: Former Kelsey Hayes - Milford

# **Attachment 2**

**Summary Table of Analytical Results of Samples and Field Parameters (Observation Wells OW-16D2R1 and OW-16D2R2)**

**Table 1**  
**Observation Wells OW-16D2R1 and OW-16D2R2**  
**Groundwater Analytical Results and Field Parameters**  
**Former Kelsey-Hayes Milford Plant**



Sample Identification:		OW-16D2R1																			Residential Drinking Water Criteria
Sample Collection Date:	6/8/2022	7/11/2022	8/8/2022	9/8/2022	10/3/2022	11/3/2022	12/7/2022	1/10/2023	1/26/2023	2/7/2023	3/21/2023	4/12/2023	5/12/2023	6/13/2023	7/18/2023	8/18/2023	11/14/2023	2/14/2024			
Tetrachloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.0 (A)		
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.0 (A)		
cis-1,2-Dichloroethene	21	20	20	22	19	17	19	23	19	21	20	19	20	16	21	19	19	22	70 (A)		
trans-1,2-Dichloroethene	1.1	1.2	1.3	1.4	1.1	1.0	1.2	1.4	1.2	1.3	1.2	1.0	1.2	1.0	1.3	1.4	1.3	1.3	100 (A)		
1,1-Dichloroethane	2.5	2.2	2.2	2.5	2.1	1.9	2.1	2.3	1.9	2.3	2.1	2.3	2.4	1.8	2.4	2.1	2.0	2.2	880		
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0 (A)		
<b>Field Parameters</b>																					
Drawdown (feet)	0.21	0.87	0.02	0.89	-0.19	-0.08	-0.06	0.01	0	0.01	0.4	0	0.04	0	0.16	0.02	0.06	0.02	-		
Total Elapsed Minutes	54	41	27	29	27	24	40	40	35	35	35	35	35	40	40	35	40	35	-		
Rate (mL/min)	125	100	125	100	115	125	200	200	200	200	200	200	200	200	200	200	200	200	-		
First Depth to Water (feet)	1.2	2.18	2.61	2.2	1.98	1.67	1.82	1.55	1.67	2.15	1.20	0.71	1.97	2.95	2.19	1.31	2.34	0.67	-		
Final Depth to Water (feet)	1.41	3.05	2.63	3.09	1.79	1.59	1.76	1.56	1.67	2.16	1.60	0.71	2.01	2.95	2.35	1.33	2.40	0.69	-		
pH (standard units)	7.25	7.3	7.31	7.16	7.34	7.14	7.24	7.16	7.55	7.45	7.02	7.26	7.56	7.08	7.10	6.97	7.33	7.41	-		
Conductivity (millisiemens per centimeter)	1.047	1.08	1.12	1.12	1.08	1.07	1.05	1.08	1.11	1.09	1.08	1.07	0.01	1.07	1.10	1.10	1.04	1.10	-		
Turbidity (Nephelometric Turbidity Unit)	0.02	0.78	0.02	0.02	0.02	0.02	2.29	2.35	2.76	2.01	1.43	2.77	3.09	2.40	2.17	3.56	1.11	3.50	-		
Dissolved Oxygen (milligrams per liter)	0.17	0.15	0.17	0.17	0.05	0.13	0.18	0.19	0.19	0.3	0.19	0.31	1.42	0.54	0.26	0.13	0.20	0.49	-		
Temperature (degrees Celsius)	15.3	17.6	17.9	17.5	15.2	13.3	11.8	10.7	6.7	10.1	10.3	13.4	14.7	13.7	15.0	14.2	9.8	8.5	-		
Oxidation Reduction Potential (millivolt)	-287.7	-141.4	-112.3	-139.3	-76.2	-216.5	-20.7	-70.3	37.1	-58.1	-64.0	-74.8	-89.1	-22.5	-55.0	4.1	32.1	62.0	-		

See Notes on last page.

**Table 1**  
**Observation Wells OW-16D2R1 and OW-16D2R2**  
**Groundwater Analytical Results and Field Parameters**  
**Former Kelsey-Hayes Milford Plant**



Sample Identification:		OW-16D2R2																Residential Drinking Water Criteria
Sample Collection Date:	8/8/2022	9/8/2022	10/3/2022	11/3/2022	12/7/2022	1/10/2023	1/26/2023	2/7/2023	3/21/2023	4/12/2023	5/12/2023	6/13/2023	7/18/2023	8/18/2023	11/14/2023	2/14/2024		
Tetrachloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.0 (A)	
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.0 (A)	
cis-1,2-Dichloroethene	11	12	10	8.3	9.2	11	8.8	9.5	9.4	9.2	10	10	11	11	9.6	10	70 (A)	
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	100 (A)	
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	880	
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0 (A)	
<b>Field Parameters</b>																		
Drawdown (feet)	1.11	0.84	0.16	0.01	0.01	0.26	0.08	0.02	0.13	0.95	0.15	0.02	0.08	0.03	0.18	0.02	-	
Total Elapsed Minutes	57	28	29	21	35	35	35	40	40	40	35	35	40	40	35	35	-	
Rate (mL/min)	125	100	125	125	200	200	200	200	200	200	200	200	200	200	200	200	-	
First Depth to Water (feet)	1.14	1.76	1.43	1.22	1.42	1.75	2.4	0.68	2.12	0.25	0.75	1.75	2.67	2.18	2.02	1.27	-	
Final Depth to Water (feet)	2.25	2.6	1.59	1.23	1.43	2.01	2.48	0.70	2.25	1.20	0.90	1.77	2.75	2.21	2.20	1.29	-	
pH (standard units)	7.43	7.24	7.47	7.24	7.4	7.29	7.68	7.56	7.16	7.42	7.52	7.27	7.17	7.20	7.40	7.48	-	
Conductivity (millisiemens per centimeter)	1.09	1.1	1.08	1.13	1.13	1.18	1.23	1.18	1.19	1.15	1.15	1.10	1.08	1.09	1.14	1.20	-	
Turbidity (Nephelometric Turbidity Unit)	129	1.96	0.52	0.02	2.67	2.76	2.56	2.53	2.59	3.08	2.37	2.33	2.58	1.55	1.56	3.11	-	
Dissolved Oxygen (milligrams per liter)	0.11	0.21	0.04	0.11	0.24	0.27	0.38	0.27	0.25	0.55	0.18	0.17	0.16	0.28	0.22	0.79	-	
Temperature (degrees Celsius)	20.4	18.1	15.8	13.6	11.2	10.5	4.8	9.3	10.6	13.3	14.2	13.4	15.2	14.6	12.1	10.1	-	
Oxidation Reduction Potential (millivolt)	-145.1	-138.1	-98.5	-182.7	-74	-93.4	-3.0	-98.0	-106.0	-94.1	-130.0	-94.1	-96.0	-14.9	-36.0	-41.7	-	

**Notes:**

All volatile organic compound (VOC) concentrations are in micrograms per liter ( $\mu\text{g/L}$ ).

All samples were analyzed for VOCs via USEPA Method 8260.

Residential drinking water criteria comes from cleanup criteria published in the EGLE Revised Part 201, effective December 30, 2013.

**Abbreviations:**

< = Below laboratory detection limit

EGLE = Michigan Department of Environment, Great Lakes, and Energy

**Qualifiers:**

(A) Criterion is the State of Michigan Drinking Water Standard established pursuant to Section 5 of the Safe Drinking Water Act No. 399 of the Public Acts of 1976.

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