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ZF Active Safety US Inc.

PROGRESS REPORT NO. 8

Former Kelsey-Hayes Company Site, Milford,
Michigan

Administrative Order for Response Activity, EGLE
Docket No. AO-RRD-22-001

December 15, 2022

**PROGRESS REPORT NO. 8
FORMER KELSEY-HAYES COMPANY
MILFORD, MICHIGAN
ADMINISTRATIVE ORDER FOR RESPONSE ACTIVITY EGLE
DOCKET NO. AO-RRD-22-001**

This progress report has been prepared and is being submitted pursuant to Section XII of the Administrative Order for Response Activity, Docket No. AO-RRD-22-001 (AO) issued by the Department of Environment, Great Lakes, and Energy (EGLE) to ZF Active Safety US Inc. (ZF or Respondent) on March 16, 2022 (effective date), with respect to the former Kelsey-Hayes site in Milford, Michigan (the Site). This progress report provides information regarding response activities and other matters related to the AO that occurred from November 15, 2022 through December 14, 2022.

Chronological Description of Activities Conducted during the Specified Reporting Period:

- Observation Wells OW-16D2, OW-16D2R1, and OW-16D2R2 were sampled on December 7, 2022. The samples were submitted to Eurofins Canton, Ohio (Eurofins) for analysis of volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) Test Method 8260D. Laboratory analytical results will be submitted to EGLE and the VOM when available.

Results of Sampling and Tests and Other Data

- The laboratory analytical report for the samples collected on November 3, 2022 at Observation Wells OW-16D2, OW-16D2R1, and OW-16D2R2 was submitted to EGLE and VOM on November 22, 2022 and is included in **Attachment 1**. Vinyl chloride was not detected at or above the reporting limit of 1.0 microgram per liter (µg/L) in any of the November 3, 2022 samples.
- Observation Wells OW-16D2, OW-16D2R1, and OW-16D2R2 were sampled on December 7, 2022. The samples were submitted to Eurofins for analysis of VOCs using USEPA Test Method 8260D. Laboratory analytical results will be submitted to EGLE and the VOM when available.

Status of Access Issues

- There have been no issues with access during the reporting period.

Scheduled for the Next Reporting Period

- Submit laboratory analytical results from the samples collected on December 7, 2022 at Observation Wells OW-16D2, OW-16D2R1, and OW-16D2R2 to EGLE and the VOM.
- Conduct sampling at Observation Well OW-16D2 during the month of January 2023, with analysis conducted by Eurofins within 10 to 14 days.

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- Conduct sampling at Observation Wells OW-16D2R1 and OW-16D2R2 during the month of January 2023, with analysis conducted by Eurofins within 10 to 14 days.
- Continue to work with Ms. Yusko-Kotimko (EGLE) on ZF's Permit Application for Water Supply Systems pursuant to Act 399 for construction of the VOM treatment system improvements.

Other Relevant Information

- No other relevant information was identified during this reporting period.

Attachments

1. Laboratory Analytical Report (Observation Wells OW-16D2, OW-16D2R1, and OW-16D2R2)

ATTACHMENT 1

Laboratory Analytical Report (Observation Wells OW-16D2, OW-16D2R1, and OW-16D2R2)

ANALYTICAL REPORT

PREPARED FOR

Attn: Scott Detwiler
ZF Active Safety and Electronics LLC
Tech 2
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Generated 11/22/2022 11:24:26 AM Revision 1

JOB DESCRIPTION

TRW Milford

JOB NUMBER

240-175885-1

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Definitions/Glossary

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

Job ID: 240-175885-1

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

Case Narrative

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

Job ID: 240-175885-1

Job ID: 240-175885-1

Laboratory: Eurofins Canton

Narrative

Job Narrative
240-175885-1

Receipt

Report revised on 11/22/2022 to report TCL list for VOCs.

The samples were received on 11/4/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

GC/MS VOA

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

Method Summary

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

Job ID: 240-175885-1

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

Protocol References:

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

Laboratory References:

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

Sample Summary

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

Job ID: 240-175885-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-175885-1	OW-16D2	Water	11/03/22 09:05	11/04/22 09:40
240-175885-2	OW-16D2R1	Water	11/03/22 09:42	11/04/22 09:40
240-175885-3	OW-16D2R2	Water	11/03/22 10:20	11/04/22 09:40

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Detection Summary

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

Job ID: 240-175885-1

Client Sample ID: OW-16D2

Lab Sample ID: 240-175885-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.9		1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	12		1.0	ug/L	1		8260D	Total/NA

Client Sample ID: OW-16D2R1

Lab Sample ID: 240-175885-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.9		1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	17		1.0	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.0		1.0	ug/L	1		8260D	Total/NA

Client Sample ID: OW-16D2R2

Lab Sample ID: 240-175885-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.3		1.0	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Client Sample Results

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

Job ID: 240-175885-1

Client Sample ID: OW-16D2

Lab Sample ID: 240-175885-1

Date Collected: 11/03/22 09:05

Matrix: Water

Date Received: 11/04/22 09:40

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			11/15/22 13:58	1
1,1-Dichloroethane	2.9		1.0	ug/L			11/15/22 13:58	1
cis-1,2-Dichloroethene	12		1.0	ug/L			11/15/22 13:58	1
Tetrachloroethene	1.0	U	1.0	ug/L			11/15/22 13:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	ug/L			11/15/22 13:58	1
Trichloroethene	1.0	U	1.0	ug/L			11/15/22 13:58	1
Benzene	1.0	U	1.0	ug/L			11/15/22 13:58	1
cis-1,3-Dichloropropene	1.0	U	1.0	ug/L			11/15/22 13:58	1
Carbon disulfide	1.0	U	1.0	ug/L			11/15/22 13:58	1
Bromoform	1.0	U	1.0	ug/L			11/15/22 13:58	1
1,2-Dichloroethane	1.0	U	1.0	ug/L			11/15/22 13:58	1
1,2-Dichloropropane	1.0	U	1.0	ug/L			11/15/22 13:58	1
1,1,2-Trichloroethane	1.0	U	1.0	ug/L			11/15/22 13:58	1
Acetone	10	U	10	ug/L			11/15/22 13:58	1
Methyl acetate	10	U	10	ug/L			11/15/22 13:58	1
Dichlorodifluoromethane	1.0	U	1.0	ug/L			11/15/22 13:58	1
4-Methyl-2-pentanone (MIBK)	10	U	10	ug/L			11/15/22 13:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	ug/L			11/15/22 13:58	1
Methylene Chloride	5.0	U	5.0	ug/L			11/15/22 13:58	1
Chloromethane	1.0	U	1.0	ug/L			11/15/22 13:58	1
Bromomethane	1.0	U	1.0	ug/L			11/15/22 13:58	1
Chlorodibromomethane	1.0	U	1.0	ug/L			11/15/22 13:58	1
Toluene	1.0	U	1.0	ug/L			11/15/22 13:58	1
1,2,4-Trichlorobenzene	1.0	U	1.0	ug/L			11/15/22 13:58	1
o-Xylene	1.0	U	1.0	ug/L			11/15/22 13:58	1
Chlorobenzene	1.0	U	1.0	ug/L			11/15/22 13:58	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	ug/L			11/15/22 13:58	1
1,3-Dichlorobenzene	1.0	U	1.0	ug/L			11/15/22 13:58	1
Methyl tert-butyl ether	1.0	U	1.0	ug/L			11/15/22 13:58	1
Styrene	1.0	U	1.0	ug/L			11/15/22 13:58	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	ug/L			11/15/22 13:58	1
Chloroethane	1.0	U	1.0	ug/L			11/15/22 13:58	1
1,1-Dichloroethene	1.0	U	1.0	ug/L			11/15/22 13:58	1
1,2-Dichlorobenzene	1.0	U	1.0	ug/L			11/15/22 13:58	1
2-Hexanone	10	U	10	ug/L			11/15/22 13:58	1
2-Butanone (MEK)	10	U	10	ug/L			11/15/22 13:58	1
Ethylbenzene	1.0	U	1.0	ug/L			11/15/22 13:58	1
Isopropylbenzene	1.0	U	1.0	ug/L			11/15/22 13:58	1
Methylcyclohexane	1.0	U	1.0	ug/L			11/15/22 13:58	1
Trichlorofluoromethane	1.0	U	1.0	ug/L			11/15/22 13:58	1
Xylenes, Total	2.0	U	2.0	ug/L			11/15/22 13:58	1
Cyclohexane	1.0	U	1.0	ug/L			11/15/22 13:58	1
trans-1,3-Dichloropropene	1.0	U	1.0	ug/L			11/15/22 13:58	1
Chloroform	1.0	U	1.0	ug/L			11/15/22 13:58	1
m-Xylene & p-Xylene	2.0	U	2.0	ug/L			11/15/22 13:58	1
Vinyl chloride	1.0	U	1.0	ug/L			11/15/22 13:58	1
Ethylene Dibromide	1.0	U	1.0	ug/L			11/15/22 13:58	1
Carbon tetrachloride	1.0	U	1.0	ug/L			11/15/22 13:58	1
1,4-Dichlorobenzene	1.0	U	1.0	ug/L			11/15/22 13:58	1

Eurofins Canton

Client Sample Results

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

Job ID: 240-175885-1

Client Sample ID: OW-16D2

Lab Sample ID: 240-175885-1

Date Collected: 11/03/22 09:05

Matrix: Water

Date Received: 11/04/22 09:40

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			11/15/22 13:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		78 - 122				11/15/22 13:58	1
Dibromofluoromethane (Surr)	98		73 - 120				11/15/22 13:58	1
4-Bromofluorobenzene (Surr)	92		56 - 136				11/15/22 13:58	1
1,2-Dichloroethane-d4 (Surr)	105		62 - 137				11/15/22 13:58	1

Client Sample Results

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

Job ID: 240-175885-1

Client Sample ID: OW-16D2R1

Lab Sample ID: 240-175885-2

Date Collected: 11/03/22 09:42

Matrix: Water

Date Received: 11/04/22 09:40

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			11/15/22 14:21	1
1,1-Dichloroethane	1.9		1.0	ug/L			11/15/22 14:21	1
cis-1,2-Dichloroethene	17		1.0	ug/L			11/15/22 14:21	1
Tetrachloroethene	1.0	U	1.0	ug/L			11/15/22 14:21	1
trans-1,2-Dichloroethene	1.0		1.0	ug/L			11/15/22 14:21	1
Trichloroethene	1.0	U	1.0	ug/L			11/15/22 14:21	1
Benzene	1.0	U	1.0	ug/L			11/15/22 14:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	ug/L			11/15/22 14:21	1
Carbon disulfide	1.0	U	1.0	ug/L			11/15/22 14:21	1
Bromoform	1.0	U	1.0	ug/L			11/15/22 14:21	1
1,2-Dichloroethane	1.0	U	1.0	ug/L			11/15/22 14:21	1
1,2-Dichloropropane	1.0	U	1.0	ug/L			11/15/22 14:21	1
1,1,2-Trichloroethane	1.0	U	1.0	ug/L			11/15/22 14:21	1
Acetone	10	U	10	ug/L			11/15/22 14:21	1
Methyl acetate	10	U	10	ug/L			11/15/22 14:21	1
Dichlorodifluoromethane	1.0	U	1.0	ug/L			11/15/22 14:21	1
4-Methyl-2-pentanone (MIBK)	10	U	10	ug/L			11/15/22 14:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	ug/L			11/15/22 14:21	1
Methylene Chloride	5.0	U	5.0	ug/L			11/15/22 14:21	1
Chloromethane	1.0	U	1.0	ug/L			11/15/22 14:21	1
Bromomethane	1.0	U	1.0	ug/L			11/15/22 14:21	1
Chlorodibromomethane	1.0	U	1.0	ug/L			11/15/22 14:21	1
Toluene	1.0	U	1.0	ug/L			11/15/22 14:21	1
1,2,4-Trichlorobenzene	1.0	U	1.0	ug/L			11/15/22 14:21	1
o-Xylene	1.0	U	1.0	ug/L			11/15/22 14:21	1
Chlorobenzene	1.0	U	1.0	ug/L			11/15/22 14:21	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	ug/L			11/15/22 14:21	1
1,3-Dichlorobenzene	1.0	U	1.0	ug/L			11/15/22 14:21	1
Methyl tert-butyl ether	1.0	U	1.0	ug/L			11/15/22 14:21	1
Styrene	1.0	U	1.0	ug/L			11/15/22 14:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	ug/L			11/15/22 14:21	1
Chloroethane	1.0	U	1.0	ug/L			11/15/22 14:21	1
1,1-Dichloroethene	1.0	U	1.0	ug/L			11/15/22 14:21	1
1,2-Dichlorobenzene	1.0	U	1.0	ug/L			11/15/22 14:21	1
2-Hexanone	10	U	10	ug/L			11/15/22 14:21	1
2-Butanone (MEK)	10	U	10	ug/L			11/15/22 14:21	1
Ethylbenzene	1.0	U	1.0	ug/L			11/15/22 14:21	1
Isopropylbenzene	1.0	U	1.0	ug/L			11/15/22 14:21	1
Methylcyclohexane	1.0	U	1.0	ug/L			11/15/22 14:21	1
Trichlorofluoromethane	1.0	U	1.0	ug/L			11/15/22 14:21	1
Xylenes, Total	2.0	U	2.0	ug/L			11/15/22 14:21	1
Cyclohexane	1.0	U	1.0	ug/L			11/15/22 14:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	ug/L			11/15/22 14:21	1
Chloroform	1.0	U	1.0	ug/L			11/15/22 14:21	1
m-Xylene & p-Xylene	2.0	U	2.0	ug/L			11/15/22 14:21	1
Vinyl chloride	1.0	U	1.0	ug/L			11/15/22 14:21	1
Ethylene Dibromide	1.0	U	1.0	ug/L			11/15/22 14:21	1
Carbon tetrachloride	1.0	U	1.0	ug/L			11/15/22 14:21	1
1,4-Dichlorobenzene	1.0	U	1.0	ug/L			11/15/22 14:21	1

Eurofins Canton

Client Sample Results

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

Job ID: 240-175885-1

Client Sample ID: OW-16D2R1

Lab Sample ID: 240-175885-2

Date Collected: 11/03/22 09:42

Matrix: Water

Date Received: 11/04/22 09:40

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			11/15/22 14:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		78 - 122				11/15/22 14:21	1
Dibromofluoromethane (Surr)	98		73 - 120				11/15/22 14:21	1
4-Bromofluorobenzene (Surr)	95		56 - 136				11/15/22 14:21	1
1,2-Dichloroethane-d4 (Surr)	105		62 - 137				11/15/22 14:21	1

Client Sample Results

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

Job ID: 240-175885-1

Client Sample ID: OW-16D2R2

Lab Sample ID: 240-175885-3

Date Collected: 11/03/22 10:20

Matrix: Water

Date Received: 11/04/22 09:40

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			11/15/22 14:44	1
1,1-Dichloroethane	1.0	U	1.0	ug/L			11/15/22 14:44	1
cis-1,2-Dichloroethene	8.3		1.0	ug/L			11/15/22 14:44	1
Tetrachloroethene	1.0	U	1.0	ug/L			11/15/22 14:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	ug/L			11/15/22 14:44	1
Trichloroethene	1.0	U	1.0	ug/L			11/15/22 14:44	1
Benzene	1.0	U	1.0	ug/L			11/15/22 14:44	1
cis-1,3-Dichloropropene	1.0	U	1.0	ug/L			11/15/22 14:44	1
Carbon disulfide	1.0	U	1.0	ug/L			11/15/22 14:44	1
Bromoform	1.0	U	1.0	ug/L			11/15/22 14:44	1
1,2-Dichloroethane	1.0	U	1.0	ug/L			11/15/22 14:44	1
1,2-Dichloropropane	1.0	U	1.0	ug/L			11/15/22 14:44	1
1,1,2-Trichloroethane	1.0	U	1.0	ug/L			11/15/22 14:44	1
Acetone	10	U	10	ug/L			11/15/22 14:44	1
Methyl acetate	10	U	10	ug/L			11/15/22 14:44	1
Dichlorodifluoromethane	1.0	U	1.0	ug/L			11/15/22 14:44	1
4-Methyl-2-pentanone (MIBK)	10	U	10	ug/L			11/15/22 14:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	ug/L			11/15/22 14:44	1
Methylene Chloride	5.0	U	5.0	ug/L			11/15/22 14:44	1
Chloromethane	1.0	U	1.0	ug/L			11/15/22 14:44	1
Bromomethane	1.0	U	1.0	ug/L			11/15/22 14:44	1
Chlorodibromomethane	1.0	U	1.0	ug/L			11/15/22 14:44	1
Toluene	1.0	U	1.0	ug/L			11/15/22 14:44	1
1,2,4-Trichlorobenzene	1.0	U	1.0	ug/L			11/15/22 14:44	1
o-Xylene	1.0	U	1.0	ug/L			11/15/22 14:44	1
Chlorobenzene	1.0	U	1.0	ug/L			11/15/22 14:44	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	ug/L			11/15/22 14:44	1
1,3-Dichlorobenzene	1.0	U	1.0	ug/L			11/15/22 14:44	1
Methyl tert-butyl ether	1.0	U	1.0	ug/L			11/15/22 14:44	1
Styrene	1.0	U	1.0	ug/L			11/15/22 14:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	ug/L			11/15/22 14:44	1
Chloroethane	1.0	U	1.0	ug/L			11/15/22 14:44	1
1,1-Dichloroethene	1.0	U	1.0	ug/L			11/15/22 14:44	1
1,2-Dichlorobenzene	1.0	U	1.0	ug/L			11/15/22 14:44	1
2-Hexanone	10	U	10	ug/L			11/15/22 14:44	1
2-Butanone (MEK)	10	U	10	ug/L			11/15/22 14:44	1
Ethylbenzene	1.0	U	1.0	ug/L			11/15/22 14:44	1
Isopropylbenzene	1.0	U	1.0	ug/L			11/15/22 14:44	1
Methylcyclohexane	1.0	U	1.0	ug/L			11/15/22 14:44	1
Trichlorofluoromethane	1.0	U	1.0	ug/L			11/15/22 14:44	1
Xylenes, Total	2.0	U	2.0	ug/L			11/15/22 14:44	1
Cyclohexane	1.0	U	1.0	ug/L			11/15/22 14:44	1
trans-1,3-Dichloropropene	1.0	U	1.0	ug/L			11/15/22 14:44	1
Chloroform	1.0	U	1.0	ug/L			11/15/22 14:44	1
m-Xylene & p-Xylene	2.0	U	2.0	ug/L			11/15/22 14:44	1
Vinyl chloride	1.0	U	1.0	ug/L			11/15/22 14:44	1
Ethylene Dibromide	1.0	U	1.0	ug/L			11/15/22 14:44	1
Carbon tetrachloride	1.0	U	1.0	ug/L			11/15/22 14:44	1
1,4-Dichlorobenzene	1.0	U	1.0	ug/L			11/15/22 14:44	1

Eurofins Canton

Client Sample Results

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

Job ID: 240-175885-1

Client Sample ID: OW-16D2R2

Lab Sample ID: 240-175885-3

Date Collected: 11/03/22 10:20

Matrix: Water

Date Received: 11/04/22 09:40

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			11/15/22 14:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		78 - 122				11/15/22 14:44	1
Dibromofluoromethane (Surr)	98		73 - 120				11/15/22 14:44	1
4-Bromofluorobenzene (Surr)	91		56 - 136				11/15/22 14:44	1
1,2-Dichloroethane-d4 (Surr)	105		62 - 137				11/15/22 14:44	1

Surrogate Summary

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

Job ID: 240-175885-1

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)
240-175885-1	OW-16D2	106	98	92	105
240-175885-2	OW-16D2R1	104	98	95	105
240-175885-3	OW-16D2R2	106	98	91	105
LCS 240-551976/5	Lab Control Sample	108	96	103	99
MB 240-551976/8	Method Blank	106	98	93	104

Surrogate Legend

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

BFB = 4-Bromofluorobenzene (Surr)

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

QC Sample Results

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

Job ID: 240-175885-1

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

Lab Sample ID: MB 240-551976/8

Matrix: Water

Analysis Batch: 551976

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			11/15/22 11:15	1
1,1-Dichloroethane	1.0	U	1.0	ug/L			11/15/22 11:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	ug/L			11/15/22 11:15	1
Tetrachloroethene	1.0	U	1.0	ug/L			11/15/22 11:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	ug/L			11/15/22 11:15	1
Trichloroethene	1.0	U	1.0	ug/L			11/15/22 11:15	1
Benzene	1.0	U	1.0	ug/L			11/15/22 11:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	ug/L			11/15/22 11:15	1
Carbon disulfide	1.0	U	1.0	ug/L			11/15/22 11:15	1
Bromoform	1.0	U	1.0	ug/L			11/15/22 11:15	1
1,2-Dichloroethane	1.0	U	1.0	ug/L			11/15/22 11:15	1
1,2-Dichloropropane	1.0	U	1.0	ug/L			11/15/22 11:15	1
1,1,2-Trichloroethane	1.0	U	1.0	ug/L			11/15/22 11:15	1
Acetone	10	U	10	ug/L			11/15/22 11:15	1
Methyl acetate	10	U	10	ug/L			11/15/22 11:15	1
Dichlorodifluoromethane	1.0	U	1.0	ug/L			11/15/22 11:15	1
4-Methyl-2-pentanone (MIBK)	10	U	10	ug/L			11/15/22 11:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	ug/L			11/15/22 11:15	1
Methylene Chloride	5.0	U	5.0	ug/L			11/15/22 11:15	1
Chloromethane	1.0	U	1.0	ug/L			11/15/22 11:15	1
Bromomethane	1.0	U	1.0	ug/L			11/15/22 11:15	1
Chlorodibromomethane	1.0	U	1.0	ug/L			11/15/22 11:15	1
Toluene	1.0	U	1.0	ug/L			11/15/22 11:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	ug/L			11/15/22 11:15	1
o-Xylene	1.0	U	1.0	ug/L			11/15/22 11:15	1
Chlorobenzene	1.0	U	1.0	ug/L			11/15/22 11:15	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	ug/L			11/15/22 11:15	1
1,3-Dichlorobenzene	1.0	U	1.0	ug/L			11/15/22 11:15	1
Methyl tert-butyl ether	1.0	U	1.0	ug/L			11/15/22 11:15	1
Styrene	1.0	U	1.0	ug/L			11/15/22 11:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	ug/L			11/15/22 11:15	1
Chloroethane	1.0	U	1.0	ug/L			11/15/22 11:15	1
1,1-Dichloroethene	1.0	U	1.0	ug/L			11/15/22 11:15	1
1,2-Dichlorobenzene	1.0	U	1.0	ug/L			11/15/22 11:15	1
2-Hexanone	10	U	10	ug/L			11/15/22 11:15	1
2-Butanone (MEK)	10	U	10	ug/L			11/15/22 11:15	1
Ethylbenzene	1.0	U	1.0	ug/L			11/15/22 11:15	1
Isopropylbenzene	1.0	U	1.0	ug/L			11/15/22 11:15	1
Methylcyclohexane	1.0	U	1.0	ug/L			11/15/22 11:15	1
Trichlorofluoromethane	1.0	U	1.0	ug/L			11/15/22 11:15	1
Xylenes, Total	2.0	U	2.0	ug/L			11/15/22 11:15	1
Cyclohexane	1.0	U	1.0	ug/L			11/15/22 11:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	ug/L			11/15/22 11:15	1
Chloroform	1.0	U	1.0	ug/L			11/15/22 11:15	1
m-Xylene & p-Xylene	2.0	U	2.0	ug/L			11/15/22 11:15	1
Vinyl chloride	1.0	U	1.0	ug/L			11/15/22 11:15	1
Ethylene Dibromide	1.0	U	1.0	ug/L			11/15/22 11:15	1
Carbon tetrachloride	1.0	U	1.0	ug/L			11/15/22 11:15	1

Eurofins Canton

QC Sample Results

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

Job ID: 240-175885-1

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

Lab Sample ID: MB 240-551976/8

Matrix: Water

Analysis Batch: 551976

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	1.0	U	1.0	ug/L			11/15/22 11:15	1
Dichlorobromomethane	1.0	U	1.0	ug/L			11/15/22 11:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		78 - 122				11/15/22 11:15	1
Dibromofluoromethane (Surr)	98		73 - 120				11/15/22 11:15	1
4-Bromofluorobenzene (Surr)	93		56 - 136				11/15/22 11:15	1
1,2-Dichloroethane-d4 (Surr)	104		62 - 137				11/15/22 11:15	1

Lab Sample ID: LCS 240-551976/5

Matrix: Water

Analysis Batch: 551976

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	17.7		ug/L		89	64 - 131
1,1-Dichloroethane	20.0	17.2		ug/L		86	72 - 127
cis-1,2-Dichloroethene	20.0	16.9		ug/L		85	77 - 123
Tetrachloroethene	20.0	19.8		ug/L		99	76 - 123
trans-1,2-Dichloroethene	20.0	17.1		ug/L		86	75 - 124
Trichloroethene	20.0	17.4		ug/L		87	70 - 122
Benzene	20.0	17.8		ug/L		89	77 - 123
cis-1,3-Dichloropropene	20.0	17.8		ug/L		89	64 - 130
Carbon disulfide	20.0	16.7		ug/L		83	43 - 140
Bromoform	20.0	19.0		ug/L		95	57 - 129
1,2-Dichloroethane	20.0	17.4		ug/L		87	66 - 128
1,2-Dichloropropane	20.0	18.2		ug/L		91	75 - 133
1,1,2-Trichloroethane	20.0	20.3		ug/L		101	70 - 138
Acetone	40.0	39.7		ug/L		99	50 - 149
Methyl acetate	40.0	34.2		ug/L		86	42 - 169
Dichlorodifluoromethane	20.0	14.1		ug/L		70	34 - 153
4-Methyl-2-pentanone (MIBK)	40.0	37.1		ug/L		93	46 - 158
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.5		ug/L		88	51 - 146
Methylene Chloride	20.0	17.8		ug/L		89	71 - 125
Chloromethane	20.0	15.7		ug/L		79	47 - 143
Bromomethane	20.0	15.1		ug/L		76	36 - 142
Chlorodibromomethane	20.0	19.7		ug/L		99	70 - 124
Toluene	20.0	20.3		ug/L		102	80 - 123
1,2,4-Trichlorobenzene	20.0	15.6		ug/L		78	44 - 147
o-Xylene	20.0	18.6		ug/L		93	80 - 123
Chlorobenzene	20.0	18.8		ug/L		94	80 - 121
1,2-Dibromo-3-Chloropropane	20.0	18.6		ug/L		93	53 - 135
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 120
Methyl tert-butyl ether	20.0	16.7		ug/L		84	65 - 126
Styrene	20.0	19.7		ug/L		99	80 - 135
1,1,2,2-Tetrachloroethane	20.0	21.6		ug/L		108	58 - 157
Chloroethane	20.0	15.5		ug/L		77	38 - 152
1,1-Dichloroethene	20.0	17.2		ug/L		86	63 - 134
1,2-Dichlorobenzene	20.0	18.6		ug/L		93	78 - 120

Eurofins Canton

QC Sample Results

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

Job ID: 240-175885-1

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

Lab Sample ID: LCS 240-551976/5

Matrix: Water

Analysis Batch: 551976

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Hexanone	40.0	42.4		ug/L		106	43 - 167
2-Butanone (MEK)	40.0	37.0		ug/L		93	54 - 156
Ethylbenzene	20.0	19.3		ug/L		97	80 - 121
Isopropylbenzene	20.0	18.9		ug/L		95	74 - 128
Methylcyclohexane	20.0	17.7		ug/L		88	62 - 136
Trichlorofluoromethane	20.0	16.2		ug/L		81	30 - 170
Xylenes, Total	40.0	38.1		ug/L		95	80 - 121
Cyclohexane	20.0	18.0		ug/L		90	58 - 146
trans-1,3-Dichloropropene	20.0	20.2		ug/L		101	57 - 129
Chloroform	20.0	17.6		ug/L		88	74 - 122
m-Xylene & p-Xylene	20.0	19.5		ug/L		98	80 - 120
Vinyl chloride	20.0	16.7		ug/L		84	60 - 144
Ethylene Dibromide	20.0	19.9		ug/L		100	71 - 134
Carbon tetrachloride	20.0	17.4		ug/L		87	55 - 137
1,4-Dichlorobenzene	20.0	19.6		ug/L		98	80 - 120
Dichlorobromomethane	20.0	18.0		ug/L		90	69 - 126

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	108		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120
4-Bromofluorobenzene (Surr)	103		56 - 136
1,2-Dichloroethane-d4 (Surr)	99		62 - 137

QC Association Summary

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

Job ID: 240-175885-1

GC/MS VOA

Analysis Batch: 551976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175885-1	OW-16D2	Total/NA	Water	8260D	
240-175885-2	OW-16D2R1	Total/NA	Water	8260D	
240-175885-3	OW-16D2R2	Total/NA	Water	8260D	
MB 240-551976/8	Method Blank	Total/NA	Water	8260D	
LCS 240-551976/5	Lab Control Sample	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 240-175885-1

Client Sample ID: OW-16D2

Lab Sample ID: 240-175885-1

Date Collected: 11/03/22 09:05

Matrix: Water

Date Received: 11/04/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	551976	TJL1	EET CAN	11/15/22 13:58

Client Sample ID: OW-16D2R1

Lab Sample ID: 240-175885-2

Date Collected: 11/03/22 09:42

Matrix: Water

Date Received: 11/04/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	551976	TJL1	EET CAN	11/15/22 14:21

Client Sample ID: OW-16D2R2

Lab Sample ID: 240-175885-3

Date Collected: 11/03/22 10:20

Matrix: Water

Date Received: 11/04/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	551976	TJL1	EET CAN	11/15/22 14:44

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 240-175885-1

Laboratory: Eurofins Canton

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	02-27-23
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-27-23
Illinois	NELAP	200004	07-31-23
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23
Kentucky (WW)	State	KY98016	12-31-22
Minnesota	NELAP	039-999-348	12-31-22
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-27-23
Ohio VAP	State	CL0024	02-27-23
Oregon	NELAP	4062	02-27-23
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

MICHIGAN
190

0.1/0.8

STL North Canton										Chain Of Custody / Analysis Request										LAB USE ONLY	
4101 Shuffel Drive NW North Canton, OH 44720 Attn: Michael DeMonico										Privileged & Confidential										Yes	
Project Type: Groundwater Sampling - IZ										TRW PQ No. 30126485.000IZ										Site Name: Milford	
TRW PM: (name, company, address, e-mail) Bob Bleazard 11202 East Germann Road Mesa, AZ 85212 bob.bleazard@trw.com										Database Manager: (name, company, address, E-mail) Marina Samp and Sharon Clouse 28559 Cabot Drive, Suite 508 Novi, MI 48377 marina.samp@arcadis-us.com sharon.clouse@arcadis-us.com										Site Location: Milford, Michigan	
Analysis Level: Level 1 (Routine Report)										Preservatives Code (see below)											
TAT: 10 Business Days (Standard - Level 1)										Sampler: S. Hannula											
Deliverable: EDD/PDF (e-mail)																					
Sample Identification and Information														Grab or Composite		Field Filtered					
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 OW-16D2	--	--	OW-16D2_110322	11-3-22	0905	GW	WATER	REG	9	G	N	X									
2 OW-16D2R1	--	--	OW-16D2R1_110322	11-3-22	0942	GW	WATER	REG	3	G	N	X									
3 OW-16D2R2	--	--	OW-16D2R2_110322	11-3-22	1020	GW	WATER	REG	3	G	N	X									
4																					
5																					
6																					
7																					
8																					
9																					
10																					
Special Instructions																					
Relinquished by: Stacey Hannula			Company: Arcadis			Received by: Lilly Mc			Company: EENA			Condition:			Custody Seals Intact:						
Date/Time: 11/3/22 1345			Date/Time: 11/3/22			Date/Time: 11/3/22			Date/Time: 11/3/22			Cooler Temp:			Custody Seals Intact:						
Relinquished by: Lilly Mc			Company: EENA			Received by: Young Rye			Company: EETNC			Condition:			Custody Seals Intact:						
Date/Time: 11/3/22			Date/Time: 11/3/22			Date/Time: 11/3/22			Date/Time: 11/3/22			Cooler Temp:			Custody Seals Intact:						
Relinquished by:			Company:			Received by:			Company:			Condition:			Custody Seals Intact:						
Date/Time:			Date/Time:			Date/Time:			Date/Time:			Cooler Temp:			Custody Seals Intact:						
Relinquished by:			Company:			Received by:			Company:			Condition:			Custody Seals Intact:						
Date/Time:			Date/Time:			Date/Time:			Date/Time:			Cooler Temp:			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):																					



240-175885 Chain of Custody

pg 1/1

Eurofins - Canton Sample Receipt Form/Narrative Login # : _____
Barberton Facility

Client IRW Site Name _____ Cooler unpacked by: [Signature]
Cooler Received on 11-4-22 Opened on 11-4-22
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other
Receipt After-Hours: Drop-off Date/Time _____ Storage Location _____
Eurofins Cooler # 14 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# IR-13 (CF +0.7 °C) Observed Cooler Temp. 0.1 °C Corrected Cooler Temp. 0.8 °C
IR GUN# IR-15 (CF 0.0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1
- Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
- Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
- Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC28677
14. Were VOAs on the COC? Yes No NA
15. Were air bubbles >6 mm in any VOA vials? Yes Larger than this TR Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 62070 Yes No NA
17. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other
Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page Samples processed by: _____
Sample 04-16D2 only has 3 containers, not 9.

19. SAMPLE CONDITION
Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____
VOA Sample Preservation - Date/Time VOAs Frozen: _____

WT-NC-099

Eurofins Canton

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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Authorization



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