

ANALYTICAL REPORT

Preliminary Data

PREPARED FOR

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JOB DESCRIPTION

East Palestine

JOB NUMBER

240-180293-1

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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Preliminary Data

Definitions/Glossary

Client: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

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: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

Job ID: 240-180293-1

Laboratory: Eurofins Canton

Narrative

**Job Narrative
240-180293-1**

Receipt

The samples were received on 2/13/2023 8:00 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 3.3°C

GC/MS VOA

Method 524.2_Pres_PREC: FB-20230212 (240-180293-3): The sample contained a large air bubble in its vial, while the EPA method requires that the sample bottle should not have any trapped air bubbles when sealed. The impact of this on the data is unknown. [Analytical Batch 810-47676]

Method 524.2_Pres_PREC: PW-205-20230212 (240-180293-1), PW-207-20230212 (240-180293-2) and FB-20230212 (240-180293-3): The sample chromatogram was searched for isobutene (CAS #115-11-7) and (+/-)-2-ethylhexyl acrylate (CAS #103-11-7), which were observed to elute at 1.4 minutes and 16.0 minutes, respectively, in a spiked blank. 2-Butoxyethyl acetate (CAS #112-07-2) was not searched for by this method as it was not observed in the spiked blank. Isobutene and (+/-)-2-ethylhexyl acrylate were not observed in this sample. [Analytical Batch 810-47676]

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



Method Summary

Client: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	EA SB

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

EA SB = Eurofins Eaton South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

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Sample Summary

Client: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-180293-1	PW-205-20230212	Water	02/12/23 09:50	02/13/23 08:00
240-180293-2	PW-207-20230212	Water	02/12/23 10:20	02/13/23 08:00
240-180293-3	FB-20230212	Water	02/12/23 09:30	02/13/23 08:00

Preliminary Data

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Detection Summary

Client: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

Client Sample ID: PW-205-20230212

Lab Sample ID: 240-180293-1

Sample Analysis Not Complete.

Client Sample ID: PW-207-20230212

Lab Sample ID: 240-180293-2

Sample Analysis Not Complete.

Client Sample ID: FB-20230212

Lab Sample ID: 240-180293-3

Sample Analysis Not Complete.

Preliminary Data

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This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

Client Sample ID: PW-205-20230212

Lab Sample ID: 240-180293-1

Date Collected: 02/12/23 09:50

Matrix: Water

Date Received: 02/13/23 08:00

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.30	U	0.50	0.30	ug/L			02/13/23 18:34	1
Ethylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Styrene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
cis-1,3-Dichloropropylene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
trans-1,3-Dichloropropylene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
N-Propylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
n-Butylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
4-Chlorotoluene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
1,4-Dichlorobenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Epichlorohydrin	0.80	U	1.0	0.80	ug/L			02/13/23 19:51	1
1,2-Dibromoethane (EDB)	0.20	U	0.20	0.20	ug/L			02/13/23 18:34	1
1,3-Butadiene	0.50	U	5.0	0.50	ug/L			02/13/23 19:51	1
Allyl chloride	1.1	U	5.0	1.1	ug/L			02/13/23 18:34	1
1,2-Dichloroethane	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Acrylonitrile	0.90	U	1.0	0.90	ug/L			02/13/23 18:34	1
Chloroacetonitrile	2.0	U	5.0	2.0	ug/L			02/13/23 18:34	1
4-Methyl-2-pentanone (MIBK)	1.5	U	2.0	1.5	ug/L			02/13/23 18:34	1
1,3,5-Trimethylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Bromobenzene	0.10	U	0.50	0.10	ug/L			02/13/23 18:34	1
Toluene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Chlorobenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Cyclohexanone	2.0	U	5.0	2.0	ug/L			02/13/23 19:51	1
1-Chlorobutane	0.70	U	5.0	0.70	ug/L			02/13/23 18:34	1
Tetrahydrofuran	1.4	U	5.0	1.4	ug/L			02/13/23 18:34	1
trans-1,4-Dichloro-2-butylene	1.4	U	5.0	1.4	ug/L			02/13/23 18:34	1
Bis(2-chloroethyl)ether	0.80	U	2.0	0.80	ug/L			02/13/23 19:51	1
1,2,4-Trichlorobenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Dibromochloromethane	0.10	U	0.50	0.10	ug/L			02/13/23 18:34	1
Methacrylonitrile	1.7	U	5.0	1.7	ug/L			02/13/23 18:34	1
Chloroprene	0.40	U	5.0	0.40	ug/L			02/13/23 19:51	1
Tetrachloroethene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Ethyl acrylate	0.40	U	1.0	0.40	ug/L			02/13/23 19:51	1
n-Butyl acrylate	0.50	U	1.0	0.50	ug/L			02/13/23 19:51	1
1,3-Dichloropropane	0.10	U	0.50	0.10	ug/L			02/13/23 18:34	1
cis-1,2-Dichloroethylene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
trans-1,2-Dichloroethylene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Methyl-tert-butyl Ether (MTBE)	0.40	U	0.50	0.40	ug/L			02/13/23 18:34	1
m-Xylene & p-Xylene	0.50	U	0.50	0.50	ug/L			02/13/23 18:34	1
1,2,3-Trimethylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
1,3-Dichlorobenzene	0.10	U	0.50	0.10	ug/L			02/13/23 18:34	1
Carbon tetrachloride	0.10	U	0.50	0.10	ug/L			02/13/23 18:34	1
1,1-Dichloropropene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
2-Hexanone	1.2	U	5.0	1.2	ug/L			02/13/23 18:34	1
2,2-Dichloropropane	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Ethyl ether	0.30	U	2.0	0.30	ug/L			02/13/23 18:34	1
Ethyl tert-butyl ether	0.40	U	2.0	0.40	ug/L			02/13/23 18:34	1
Chloroform	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Hexachloroethane	1.1	U	2.0	1.1	ug/L			02/13/23 18:34	1
Benzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1

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Client Sample Results

Client: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

Client Sample ID: PW-205-20230212

Lab Sample ID: 240-180293-1

Date Collected: 02/12/23 09:50

Matrix: Water

Date Received: 02/13/23 08:00

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Bromomethane	0.40	U	0.50	0.40	ug/L			02/13/23 18:34	1
Chloromethane	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Methyl iodide	2.0	U	2.0	2.0	ug/L			02/13/23 18:34	1
Dibromomethane	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Bromochloromethane	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Chloroethane	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Vinyl chloride	0.20	U	0.20	0.20	ug/L			02/13/23 18:34	1
Dichloromethane	0.40	U	0.50	0.40	ug/L			02/13/23 18:34	1
Carbon disulfide	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Bromoform	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Bromodichloromethane	0.10	U	0.50	0.10	ug/L			02/13/23 18:34	1
1,1-Dichloroethane	0.10	U	0.50	0.10	ug/L			02/13/23 18:34	1
1,1-Dichloroethene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
tert-Butyl alcohol	0.60	U	2.0	0.60	ug/L			02/13/23 19:51	1
Trichlorofluoromethane	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Dichlorodifluoromethane	0.30	U	0.50	0.30	ug/L			02/13/23 18:34	1
Pentachloroethane	1.1	U	2.0	1.1	ug/L			02/13/23 18:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.30	U	0.50	0.30	ug/L			02/13/23 18:34	1
1,2-Dichloropropane	0.20	U	0.25	0.20	ug/L			02/13/23 18:34	1
2-Butanone (MEK)	2.0	U	5.0	2.0	ug/L			02/13/23 18:34	1
1,1,2-Trichloroethane	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Trichloroethylene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
1,1,2,2-Tetrachloroethane	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Methyl methacrylate	1.0	U	1.0	1.0	ug/L			02/13/23 18:34	1
1,2,3-Trichlorobenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Hexachlorobutadiene	0.20	U	0.25	0.20	ug/L			02/13/23 18:34	1
Naphthalene	0.30	U	0.50	0.30	ug/L			02/13/23 18:34	1
o-Xylene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
2-Chlorotoluene	0.10	U	0.50	0.10	ug/L			02/13/23 18:34	1
1,2-Dichlorobenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
1,2,4-Trimethylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
1,2-Dibromo-3-Chloropropane	0.20	U	0.20	0.20	ug/L			02/13/23 18:34	1
1,2,3-Trichloropropane	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Methyl acrylate	0.80	U	1.0	0.80	ug/L			02/13/23 18:34	1
Ethyl methacrylate	1.0	U	1.0	1.0	ug/L			02/13/23 18:34	1
tert-Butylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Isopropylbenzene	0.20	U	0.25	0.20	ug/L			02/13/23 18:34	1
4-Isopropyltoluene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
Benzyl chloride	0.40	U	0.50	0.40	ug/L			02/13/23 19:51	1
Propionitrile	1.3	U	5.0	1.3	ug/L			02/13/23 18:34	1
Vinyl acetate	2.0	U	5.0	2.0	ug/L			02/13/23 19:51	1
Isopropyl ether	0.50	U	0.50	0.50	ug/L			02/13/23 18:34	1
1,4-Dioxane	2.0	U	5.0	2.0	ug/L			02/13/23 19:51	1
sec-Butylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:34	1
2-Nitropropane	0.90	U	2.0	0.90	ug/L			02/13/23 18:34	1
Nitrobenzene	2.0	U	5.0	2.0	ug/L			02/13/23 18:34	1
t-Amyl methyl ether	0.60	U	3.0	0.60	ug/L			02/13/23 18:34	1
1,1-Dichloropropanone	1.6	U	5.0	1.6	ug/L			02/13/23 18:34	1

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Client Sample Results

Client: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

Client Sample ID: PW-205-20230212

Lab Sample ID: 240-180293-1

Date Collected: 02/12/23 09:50

Matrix: Water

Date Received: 02/13/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		02/13/23 18:34	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		02/13/23 18:34	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		02/13/23 19:51	1
Toluene-d8 (Surr)	99		70 - 130		02/13/23 18:34	1
Toluene-d8 (Surr)	100		70 - 130		02/13/23 18:34	1
Toluene-d8 (Surr)	93		70 - 130		02/13/23 19:51	1
4-Bromofluorobenzene (Surr)	85		70 - 130		02/13/23 18:34	1
4-Bromofluorobenzene (Surr)	102		70 - 130		02/13/23 18:34	1
4-Bromofluorobenzene (Surr)	89		70 - 130		02/13/23 19:51	1
1,2-Dichlorobenzene-d4 (Surr)	81		70 - 130		02/13/23 18:34	1
1,2-Dichlorobenzene-d4 (Surr)	96		70 - 130		02/13/23 18:34	1
1,2-Dichlorobenzene-d4 (Surr)	89		70 - 130		02/13/23 19:51	1

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Client Sample Results

Client: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

Client Sample ID: PW-207-20230212

Lab Sample ID: 240-180293-2

Date Collected: 02/12/23 10:20

Matrix: Water

Date Received: 02/13/23 08:00

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.30	U	0.50	0.30	ug/L			02/13/23 18:59	1
Ethylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Styrene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
cis-1,3-Dichloropropylene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
trans-1,3-Dichloropropylene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
N-Propylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
n-Butylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
4-Chlorotoluene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
1,4-Dichlorobenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Epichlorohydrin	0.80	U	1.0	0.80	ug/L			02/13/23 20:14	1
1,2-Dibromoethane (EDB)	0.20	U	0.20	0.20	ug/L			02/13/23 18:59	1
1,3-Butadiene	0.50	U	5.0	0.50	ug/L			02/13/23 20:14	1
Allyl chloride	1.1	U	5.0	1.1	ug/L			02/13/23 18:59	1
1,2-Dichloroethane	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Acrylonitrile	0.90	U	1.0	0.90	ug/L			02/13/23 18:59	1
Chloroacetonitrile	2.0	U	5.0	2.0	ug/L			02/13/23 18:59	1
4-Methyl-2-pentanone (MIBK)	1.5	U	2.0	1.5	ug/L			02/13/23 18:59	1
1,3,5-Trimethylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Bromobenzene	0.10	U	0.50	0.10	ug/L			02/13/23 18:59	1
Toluene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Chlorobenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Cyclohexanone	2.0	U	5.0	2.0	ug/L			02/13/23 20:14	1
1-Chlorobutane	0.70	U	5.0	0.70	ug/L			02/13/23 18:59	1
Tetrahydrofuran	1.4	U	5.0	1.4	ug/L			02/13/23 18:59	1
trans-1,4-Dichloro-2-butylene	1.4	U	5.0	1.4	ug/L			02/13/23 18:59	1
Bis(2-chloroethyl)ether	0.80	U	2.0	0.80	ug/L			02/13/23 20:14	1
1,2,4-Trichlorobenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Dibromochloromethane	0.58		0.50	0.10	ug/L			02/13/23 18:59	1
Methacrylonitrile	1.7	U	5.0	1.7	ug/L			02/13/23 18:59	1
Chloroprene	0.40	U	5.0	0.40	ug/L			02/13/23 20:14	1
Tetrachloroethene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Ethyl acrylate	0.40	U	1.0	0.40	ug/L			02/13/23 20:14	1
n-Butyl acrylate	0.50	U	1.0	0.50	ug/L			02/13/23 20:14	1
1,3-Dichloropropane	0.10	U	0.50	0.10	ug/L			02/13/23 18:59	1
cis-1,2-Dichloroethylene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
trans-1,2-Dichloroethylene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Methyl-tert-butyl Ether (MTBE)	0.40	U	0.50	0.40	ug/L			02/13/23 18:59	1
m-Xylene & p-Xylene	0.50	U	0.50	0.50	ug/L			02/13/23 18:59	1
1,2,3-Trimethylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
1,3-Dichlorobenzene	0.10	U	0.50	0.10	ug/L			02/13/23 18:59	1
Carbon tetrachloride	0.10	U	0.50	0.10	ug/L			02/13/23 18:59	1
1,1-Dichloropropene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
2-Hexanone	1.2	U	5.0	1.2	ug/L			02/13/23 18:59	1
2,2-Dichloropropane	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Ethyl ether	0.30	U	2.0	0.30	ug/L			02/13/23 18:59	1
Ethyl tert-butyl ether	0.40	U	2.0	0.40	ug/L			02/13/23 18:59	1
Chloroform	0.99		0.50	0.20	ug/L			02/13/23 18:59	1
Hexachloroethane	1.1	U	2.0	1.1	ug/L			02/13/23 18:59	1
Benzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1

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Client Sample Results

Client: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

Client Sample ID: PW-207-20230212

Lab Sample ID: 240-180293-2

Date Collected: 02/12/23 10:20

Matrix: Water

Date Received: 02/13/23 08:00

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Bromomethane	0.40	U	0.50	0.40	ug/L			02/13/23 18:59	1
Chloromethane	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Methyl iodide	2.0	U	2.0	2.0	ug/L			02/13/23 18:59	1
Dibromomethane	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Bromochloromethane	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Chloroethane	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Vinyl chloride	0.20	U	0.20	0.20	ug/L			02/13/23 18:59	1
Dichloromethane	0.40	U	0.50	0.40	ug/L			02/13/23 18:59	1
Carbon disulfide	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Bromoform	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Bromodichloromethane	0.99		0.50	0.10	ug/L			02/13/23 18:59	1
1,1-Dichloroethane	0.10	U	0.50	0.10	ug/L			02/13/23 18:59	1
1,1-Dichloroethene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
tert-Butyl alcohol	0.60	U	2.0	0.60	ug/L			02/13/23 20:14	1
Trichlorofluoromethane	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Dichlorodifluoromethane	0.30	U	0.50	0.30	ug/L			02/13/23 18:59	1
Pentachloroethane	1.1	U	2.0	1.1	ug/L			02/13/23 18:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.30	U	0.50	0.30	ug/L			02/13/23 18:59	1
1,2-Dichloropropane	0.20	U	0.25	0.20	ug/L			02/13/23 18:59	1
2-Butanone (MEK)	2.0	U	5.0	2.0	ug/L			02/13/23 18:59	1
1,1,2-Trichloroethane	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Trichloroethylene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
1,1,2,2-Tetrachloroethane	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Methyl methacrylate	1.0	U	1.0	1.0	ug/L			02/13/23 18:59	1
1,2,3-Trichlorobenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Hexachlorobutadiene	0.20	U	0.25	0.20	ug/L			02/13/23 18:59	1
Naphthalene	0.30	U	0.50	0.30	ug/L			02/13/23 18:59	1
o-Xylene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
2-Chlorotoluene	0.10	U	0.50	0.10	ug/L			02/13/23 18:59	1
1,2-Dichlorobenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
1,2,4-Trimethylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
1,2-Dibromo-3-Chloropropane	0.20	U	0.20	0.20	ug/L			02/13/23 18:59	1
1,2,3-Trichloropropane	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Methyl acrylate	0.80	U	1.0	0.80	ug/L			02/13/23 18:59	1
Ethyl methacrylate	1.0	U	1.0	1.0	ug/L			02/13/23 18:59	1
tert-Butylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Isopropylbenzene	0.20	U	0.25	0.20	ug/L			02/13/23 18:59	1
4-Isopropyltoluene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
Benzyl chloride	0.40	U	0.50	0.40	ug/L			02/13/23 20:14	1
Propionitrile	1.3	U	5.0	1.3	ug/L			02/13/23 18:59	1
Vinyl acetate	2.0	U	5.0	2.0	ug/L			02/13/23 20:14	1
Isopropyl ether	0.50	U	0.50	0.50	ug/L			02/13/23 18:59	1
1,4-Dioxane	2.0	U	5.0	2.0	ug/L			02/13/23 20:14	1
sec-Butylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 18:59	1
2-Nitropropane	0.90	U	2.0	0.90	ug/L			02/13/23 18:59	1
Nitrobenzene	2.0	U	5.0	2.0	ug/L			02/13/23 18:59	1
t-Amyl methyl ether	0.60	U	3.0	0.60	ug/L			02/13/23 18:59	1
1,1-Dichloropropanone	1.6	U	5.0	1.6	ug/L			02/13/23 18:59	1

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Client Sample Results

Client: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

Client Sample ID: PW-207-20230212

Lab Sample ID: 240-180293-2

Date Collected: 02/12/23 10:20

Matrix: Water

Date Received: 02/13/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		02/13/23 18:59	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		02/13/23 18:59	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		02/13/23 19:24	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		02/13/23 20:14	1
Toluene-d8 (Surr)	96		70 - 130		02/13/23 18:59	1
Toluene-d8 (Surr)	97		70 - 130		02/13/23 18:59	1
Toluene-d8 (Surr)	101		70 - 130		02/13/23 19:24	1
Toluene-d8 (Surr)	95		70 - 130		02/13/23 20:14	1
4-Bromofluorobenzene (Surr)	84		70 - 130		02/13/23 18:59	1
4-Bromofluorobenzene (Surr)	98		70 - 130		02/13/23 18:59	1
4-Bromofluorobenzene (Surr)	97		70 - 130		02/13/23 19:24	1
4-Bromofluorobenzene (Surr)	92		70 - 130		02/13/23 20:14	1
1,2-Dichlorobenzene-d4 (Surr)	82		70 - 130		02/13/23 18:59	1
1,2-Dichlorobenzene-d4 (Surr)	97		70 - 130		02/13/23 18:59	1
1,2-Dichlorobenzene-d4 (Surr)	97		70 - 130		02/13/23 19:24	1
1,2-Dichlorobenzene-d4 (Surr)	89		70 - 130		02/13/23 20:14	1

Preliminary Data

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Client Sample Results

Client: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

Client Sample ID: FB-20230212

Lab Sample ID: 240-180293-3

Date Collected: 02/12/23 09:30

Matrix: Water

Date Received: 02/13/23 08:00

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.30	U	0.50	0.30	ug/L			02/13/23 19:24	1
Ethylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Styrene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
cis-1,3-Dichloropropylene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
trans-1,3-Dichloropropylene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
N-Propylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
n-Butylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
4-Chlorotoluene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
1,4-Dichlorobenzene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Epichlorohydrin	0.80	U	1.0	0.80	ug/L			02/13/23 20:38	1
1,2-Dibromoethane (EDB)	0.20	U	0.20	0.20	ug/L			02/13/23 19:24	1
1,3-Butadiene	0.50	U	5.0	0.50	ug/L			02/13/23 20:38	1
Allyl chloride	1.1	U	5.0	1.1	ug/L			02/13/23 20:38	1
1,2-Dichloroethane	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Acrylonitrile	0.90	U	1.0	0.90	ug/L			02/13/23 20:38	1
Chloroacetonitrile	2.0	U	5.0	2.0	ug/L			02/13/23 20:38	1
4-Methyl-2-pentanone (MIBK)	1.5	U	2.0	1.5	ug/L			02/13/23 19:24	1
1,3,5-Trimethylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Bromobenzene	0.10	U	0.50	0.10	ug/L			02/13/23 19:24	1
Toluene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Chlorobenzene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Cyclohexanone	2.0	U	5.0	2.0	ug/L			02/13/23 20:38	1
1-Chlorobutane	0.70	U	5.0	0.70	ug/L			02/13/23 20:38	1
Tetrahydrofuran	1.4	U	5.0	1.4	ug/L			02/13/23 19:24	1
trans-1,4-Dichloro-2-butylene	1.4	U	5.0	1.4	ug/L			02/13/23 20:38	1
Bis(2-chloroethyl)ether	0.80	U	2.0	0.80	ug/L			02/13/23 20:38	1
1,2,4-Trichlorobenzene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Dibromochloromethane	0.10	U	0.50	0.10	ug/L			02/13/23 19:24	1
Methacrylonitrile	1.7	U	5.0	1.7	ug/L			02/13/23 20:38	1
Chloroprene	0.40	U	5.0	0.40	ug/L			02/13/23 20:38	1
Tetrachloroethene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Ethyl acrylate	0.40	U	1.0	0.40	ug/L			02/13/23 20:38	1
n-Butyl acrylate	0.50	U	1.0	0.50	ug/L			02/13/23 20:38	1
1,3-Dichloropropane	0.10	U	0.50	0.10	ug/L			02/13/23 19:24	1
cis-1,2-Dichloroethylene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
trans-1,2-Dichloroethylene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Methyl-tert-butyl Ether (MTBE)	0.40	U	0.50	0.40	ug/L			02/13/23 19:24	1
m-Xylene & p-Xylene	0.50	U	0.50	0.50	ug/L			02/13/23 19:24	1
1,2,3-Trimethylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
1,3-Dichlorobenzene	0.10	U	0.50	0.10	ug/L			02/13/23 19:24	1
Carbon tetrachloride	0.10	U	0.50	0.10	ug/L			02/13/23 19:24	1
1,1-Dichloropropene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
2-Hexanone	1.2	U	5.0	1.2	ug/L			02/13/23 19:24	1
2,2-Dichloropropane	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Ethyl ether	0.30	U	2.0	0.30	ug/L			02/13/23 20:38	1
Ethyl tert-butyl ether	0.40	U	2.0	0.40	ug/L			02/13/23 19:24	1
Chloroform	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Hexachloroethane	1.1	U	2.0	1.1	ug/L			02/13/23 20:38	1
Benzene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1

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Client Sample Results

Client: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

Client Sample ID: FB-20230212

Lab Sample ID: 240-180293-3

Date Collected: 02/12/23 09:30

Matrix: Water

Date Received: 02/13/23 08:00

Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Bromomethane	0.40	U	0.50	0.40	ug/L			02/13/23 19:24	1
Chloromethane	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Methyl iodide	2.0	U	2.0	2.0	ug/L			02/13/23 20:38	1
Dibromomethane	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Bromochloromethane	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Chloroethane	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Vinyl chloride	0.20	U	0.20	0.20	ug/L			02/13/23 19:24	1
Dichloromethane	0.40	U	0.50	0.40	ug/L			02/13/23 19:24	1
Carbon disulfide	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Bromoform	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Bromodichloromethane	0.10	U	0.50	0.10	ug/L			02/13/23 19:24	1
1,1-Dichloroethane	0.10	U	0.50	0.10	ug/L			02/13/23 19:24	1
1,1-Dichloroethene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
tert-Butyl alcohol	0.60	U	2.0	0.60	ug/L			02/13/23 20:38	1
Trichlorofluoromethane	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Dichlorodifluoromethane	0.30	U	0.50	0.30	ug/L			02/13/23 19:24	1
Pentachloroethane	1.1	U	2.0	1.1	ug/L			02/13/23 20:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.30	U	0.50	0.30	ug/L			02/13/23 19:24	1
1,2-Dichloropropane	0.20	U	0.25	0.20	ug/L			02/13/23 19:24	1
2-Butanone (MEK)	2.0	U	5.0	2.0	ug/L			02/13/23 19:24	1
1,1,2-Trichloroethane	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Trichloroethylene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
1,1,2,2-Tetrachloroethane	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Methyl methacrylate	1.0	U	1.0	1.0	ug/L			02/13/23 20:38	1
1,2,3-Trichlorobenzene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Hexachlorobutadiene	0.20	U	0.25	0.20	ug/L			02/13/23 19:24	1
Naphthalene	0.30	U	0.50	0.30	ug/L			02/13/23 19:24	1
o-Xylene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
2-Chlorotoluene	0.10	U	0.50	0.10	ug/L			02/13/23 19:24	1
1,2-Dichlorobenzene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
1,2,4-Trimethylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
1,2-Dibromo-3-Chloropropane	0.20	U	0.20	0.20	ug/L			02/13/23 19:24	1
1,2,3-Trichloropropane	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Methyl acrylate	0.80	U	1.0	0.80	ug/L			02/13/23 20:38	1
Ethyl methacrylate	1.0	U	1.0	1.0	ug/L			02/13/23 20:38	1
tert-Butylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Isopropylbenzene	0.20	U	0.25	0.20	ug/L			02/13/23 19:24	1
4-Isopropyltoluene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
Benzyl chloride	0.40	U	0.50	0.40	ug/L			02/13/23 20:38	1
Propionitrile	1.3	U	5.0	1.3	ug/L			02/13/23 20:38	1
Vinyl acetate	2.0	U	5.0	2.0	ug/L			02/13/23 20:38	1
Isopropyl ether	0.50	U	0.50	0.50	ug/L			02/13/23 19:24	1
1,4-Dioxane	2.0	U	5.0	2.0	ug/L			02/13/23 20:38	1
sec-Butylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 19:24	1
2-Nitropropane	0.90	U	2.0	0.90	ug/L			02/13/23 20:38	1
Nitrobenzene	2.0	U	5.0	2.0	ug/L			02/13/23 20:38	1
t-Amyl methyl ether	0.60	U	3.0	0.60	ug/L			02/13/23 19:24	1
1,1-Dichloropropanone	1.6	U	5.0	1.6	ug/L			02/13/23 20:38	1

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Client Sample Results

Client: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

Client Sample ID: FB-20230212

Lab Sample ID: 240-180293-3

Date Collected: 02/12/23 09:30

Matrix: Water

Date Received: 02/13/23 08:00

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		02/13/23 19:24	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		02/13/23 20:38	1
Toluene-d8 (Surr)	99		70 - 130		02/13/23 19:24	1
Toluene-d8 (Surr)	94		70 - 130		02/13/23 20:38	1
4-Bromofluorobenzene (Surr)	83		70 - 130		02/13/23 19:24	1
4-Bromofluorobenzene (Surr)	92		70 - 130		02/13/23 20:38	1
1,2-Dichlorobenzene-d4 (Surr)	82		70 - 130		02/13/23 19:24	1
1,2-Dichlorobenzene-d4 (Surr)	91		70 - 130		02/13/23 20:38	1

Preliminary Data

Surrogate Summary

Client: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)							
		DCA (70-130)	DCA (70-130)	TOL (70-130)	TOL (70-130)	BFB (70-130)	BFB (70-130)	DCZ (70-130)	DCZ (70-130)
240-180293-1	PW-205-20230212	105	105	99	99	85	85	81	81
240-180293-1	PW-205-20230212	96	96	93	93	89	89	89	89
240-180293-2	PW-207-20230212	106	106	96	96	84	84	82	82
240-180293-2	PW-207-20230212	97	97	95	95	92	92	89	89
240-180293-2	PW-207-20230212	107	107	101	101	97	97	97	97
240-180293-3	FB-20230212	110	110	99	99	83	83	82	82
240-180293-3	FB-20230212	99	99	94	94	92	92	91	91
MB 810-47646/6	Method Blank	106	106	98	98	87	87	86	86
MB 810-47676/6	Method Blank	97	97	97	97	92	92	93	93
MB 810-47680/6	Method Blank	103	103	99	99	102	102	102	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DCZ = 1,2-Dichlorobenzene-d4 (Surr)

Preliminary Data

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QC Sample Results

Client: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 810-47646/6
Matrix: Water
Analysis Batch: 47646

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	0.30	U	0.50	0.30	ug/L			02/13/23 17:50	1
Ethylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Styrene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
cis-1,3-Dichloropropylene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
trans-1,3-Dichloropropylene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
N-Propylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
n-Butylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
4-Chlorotoluene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
1,4-Dichlorobenzene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
1,2-Dibromoethane (EDB)	0.20	U	0.20	0.20	ug/L			02/13/23 17:50	1
1,2-Dichloroethane	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
4-Methyl-2-pentanone (MIBK)	1.5	U	2.0	1.5	ug/L			02/13/23 17:50	1
1,3,5-Trimethylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Bromobenzene	0.10	U	0.50	0.10	ug/L			02/13/23 17:50	1
Toluene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Chlorobenzene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Tetrahydrofuran	1.4	U	5.0	1.4	ug/L			02/13/23 17:50	1
1,2,4-Trichlorobenzene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Dibromochloromethane	0.10	U	0.50	0.10	ug/L			02/13/23 17:50	1
Tetrachloroethene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
1,3-Dichloropropane	0.10	U	0.50	0.10	ug/L			02/13/23 17:50	1
cis-1,2-Dichloroethylene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
trans-1,2-Dichloroethylene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Methyl-tert-butyl Ether (MTBE)	0.40	U	0.50	0.40	ug/L			02/13/23 17:50	1
m-Xylene & p-Xylene	0.50	U	0.50	0.50	ug/L			02/13/23 17:50	1
1,2,3-Trimethylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
1,3-Dichlorobenzene	0.10	U	0.50	0.10	ug/L			02/13/23 17:50	1
Carbon tetrachloride	0.10	U	0.50	0.10	ug/L			02/13/23 17:50	1
1,1-Dichloropropene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
2-Hexanone	1.2	U	5.0	1.2	ug/L			02/13/23 17:50	1
2,2-Dichloropropane	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Ethyl tert-butyl ether	0.40	U	2.0	0.40	ug/L			02/13/23 17:50	1
Chloroform	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Benzene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
1,1,1-Trichloroethane	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Bromomethane	0.40	U	0.50	0.40	ug/L			02/13/23 17:50	1
Chloromethane	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Dibromomethane	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Bromochloromethane	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Chloroethane	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Vinyl chloride	0.20	U	0.20	0.20	ug/L			02/13/23 17:50	1
Dichloromethane	0.40	U	0.50	0.40	ug/L			02/13/23 17:50	1
Carbon disulfide	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Bromoform	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Bromodichloromethane	0.10	U	0.50	0.10	ug/L			02/13/23 17:50	1
1,1-Dichloroethane	0.10	U	0.50	0.10	ug/L			02/13/23 17:50	1
1,1-Dichloroethene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Trichlorofluoromethane	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1

Eurofins Canton

QC Sample Results

Client: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 810-47646/6
Matrix: Water
Analysis Batch: 47646

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorodifluoromethane	0.30	U	0.50	0.30	ug/L			02/13/23 17:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.30	U	0.50	0.30	ug/L			02/13/23 17:50	1
1,2-Dichloropropane	0.20	U	0.25	0.20	ug/L			02/13/23 17:50	1
2-Butanone (MEK)	2.0	U	5.0	2.0	ug/L			02/13/23 17:50	1
1,1,2-Trichloroethane	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Trichloroethylene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
1,1,1,2-Tetrachloroethane	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
1,2,3-Trichlorobenzene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Hexachlorobutadiene	0.20	U	0.25	0.20	ug/L			02/13/23 17:50	1
Naphthalene	0.30	U	0.50	0.30	ug/L			02/13/23 17:50	1
o-Xylene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
2-Chlorotoluene	0.10	U	0.50	0.10	ug/L			02/13/23 17:50	1
1,2-Dichlorobenzene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
1,2,4-Trimethylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
1,2-Dibromo-3-Chloropropane	0.20	U	0.20	0.20	ug/L			02/13/23 17:50	1
1,2,3-Trichloropropane	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
tert-Butylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Isopropylbenzene	0.20	U	0.25	0.20	ug/L			02/13/23 17:50	1
4-Isopropyltoluene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Isopropyl ether	0.50	U	0.50	0.50	ug/L			02/13/23 17:50	1
sec-Butylbenzene	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
t-Amyl methyl ether	0.60	U	3.0	0.60	ug/L			02/13/23 17:50	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		02/13/23 17:50	1
Toluene-d8 (Surr)	98		70 - 130		02/13/23 17:50	1
4-Bromofluorobenzene (Surr)	87		70 - 130		02/13/23 17:50	1
1,2-Dichlorobenzene-d4 (Surr)	86		70 - 130		02/13/23 17:50	1

Lab Sample ID: MB 810-47676/6
Matrix: Water
Analysis Batch: 47676

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Epichlorohydrin	0.80	U	1.0	0.80	ug/L			02/13/23 19:27	1
1,3-Butadiene	0.50	U	5.0	0.50	ug/L			02/13/23 19:27	1
Cyclohexanone	2.0	U	5.0	2.0	ug/L			02/13/23 19:27	1
Bis(2-chloroethyl)ether	0.80	U	2.0	0.80	ug/L			02/13/23 19:27	1
Chloroprene	0.40	U	5.0	0.40	ug/L			02/13/23 19:27	1
Ethyl acrylate	0.40	U	1.0	0.40	ug/L			02/13/23 19:27	1
n-Butyl acrylate	0.50	U	1.0	0.50	ug/L			02/13/23 19:27	1
Ethyl tert-butyl ether	0.40	U	2.0	0.40	ug/L			02/13/23 19:27	1
tert-Butyl alcohol	0.60	U	2.0	0.60	ug/L			02/13/23 19:27	1
Benzyl chloride	0.40	U	0.50	0.40	ug/L			02/13/23 19:27	1
Vinyl acetate	2.0	U	5.0	2.0	ug/L			02/13/23 19:27	1
Isopropyl ether	0.50	U	0.50	0.50	ug/L			02/13/23 19:27	1
1,4-Dioxane	2.0	U	5.0	2.0	ug/L			02/13/23 19:27	1
t-Amyl methyl ether	0.60	U	3.0	0.60	ug/L			02/13/23 19:27	1

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QC Sample Results

Client: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 810-47676/6
Matrix: Water
Analysis Batch: 47676

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

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		02/13/23 19:27	1
Toluene-d8 (Surr)	97		70 - 130		02/13/23 19:27	1
4-Bromofluorobenzene (Surr)	92		70 - 130		02/13/23 19:27	1
1,2-Dichlorobenzene-d4 (Surr)	93		70 - 130		02/13/23 19:27	1

Lab Sample ID: MB 810-47680/6
Matrix: Water
Analysis Batch: 47680

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Allyl chloride	1.1	U	5.0	1.1	ug/L			02/13/23 17:50	1
Acrylonitrile	0.90	U	1.0	0.90	ug/L			02/13/23 17:50	1
Chloroacetonitrile	2.0	U	5.0	2.0	ug/L			02/13/23 17:50	1
4-Methyl-2-pentanone (MIBK)	1.5	U	2.0	1.5	ug/L			02/13/23 17:50	1
1-Chlorobutane	0.70	U	5.0	0.70	ug/L			02/13/23 17:50	1
Tetrahydrofuran	1.4	U	5.0	1.4	ug/L			02/13/23 17:50	1
trans-1,4-Dichloro-2-butylene	1.4	U	5.0	1.4	ug/L			02/13/23 17:50	1
Methacrylonitrile	1.7	U	5.0	1.7	ug/L			02/13/23 17:50	1
Methyl-tert-butyl Ether (MTBE)	0.40	U	0.50	0.40	ug/L			02/13/23 17:50	1
2-Hexanone	1.2	U	5.0	1.2	ug/L			02/13/23 17:50	1
Ethyl ether	0.30	U	2.0	0.30	ug/L			02/13/23 17:50	1
Hexachloroethane	1.1	U	2.0	1.1	ug/L			02/13/23 17:50	1
Methyl iodide	2.0	U	2.0	2.0	ug/L			02/13/23 17:50	1
Carbon disulfide	0.20	U	0.50	0.20	ug/L			02/13/23 17:50	1
Pentachloroethane	1.1	U	2.0	1.1	ug/L			02/13/23 17:50	1
2-Butanone (MEK)	2.0	U	5.0	2.0	ug/L			02/13/23 17:50	1
Methyl methacrylate	1.0	U	1.0	1.0	ug/L			02/13/23 17:50	1
Methyl acrylate	0.80	U	1.0	0.80	ug/L			02/13/23 17:50	1
Ethyl methacrylate	1.0	U	1.0	1.0	ug/L			02/13/23 17:50	1
Propionitrile	1.3	U	5.0	1.3	ug/L			02/13/23 17:50	1
2-Nitropropane	0.90	U	2.0	0.90	ug/L			02/13/23 17:50	1
Nitrobenzene	2.0	U	5.0	2.0	ug/L			02/13/23 17:50	1
1,1-Dichloropropanone	1.6	U	5.0	1.6	ug/L			02/13/23 17:50	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		02/13/23 17:50	1
Toluene-d8 (Surr)	99		70 - 130		02/13/23 17:50	1
4-Bromofluorobenzene (Surr)	102		70 - 130		02/13/23 17:50	1
1,2-Dichlorobenzene-d4 (Surr)	102		70 - 130		02/13/23 17:50	1

QC Association Summary

Client: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

GC/MS VOA

Analysis Batch: 47646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-180293-1	PW-205-20230212	Total/NA	Water	524.2	
240-180293-2	PW-207-20230212	Total/NA	Water	524.2	
240-180293-3	FB-20230212	Total/NA	Water	524.2	
MB 810-47646/6	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 47676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-180293-1	PW-205-20230212	Total/NA	Water	524.2	
240-180293-2	PW-207-20230212	Total/NA	Water	524.2	
240-180293-3	FB-20230212	Total/NA	Water	524.2	
MB 810-47676/6	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 47680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-180293-1	PW-205-20230212	Total/NA	Water	524.2	
240-180293-2	PW-207-20230212	Total/NA	Water	524.2	
240-180293-2	PW-207-20230212	Total/NA	Water	524.2	
MB 810-47680/6	Method Blank	Total/NA	Water	524.2	

Preliminary Data

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Lab Chronicle

Client: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

Client Sample ID: PW-205-20230212

Lab Sample ID: 240-180293-1

Date Collected: 02/12/23 09:50

Matrix: Water

Date Received: 02/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	47676	DC	EA SB	02/13/23 19:51
Total/NA	Analysis	524.2		1	47646	CM	EA SB	02/13/23 18:34
Total/NA	Analysis	524.2		1	47680	CM	EA SB	02/13/23 18:34

Client Sample ID: PW-207-20230212

Lab Sample ID: 240-180293-2

Date Collected: 02/12/23 10:20

Matrix: Water

Date Received: 02/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	47676	DC	EA SB	02/13/23 20:14
Total/NA	Analysis	524.2		1	47646	CM	EA SB	02/13/23 18:59
Total/NA	Analysis	524.2		1	47680	CM	EA SB	02/13/23 18:59
Total/NA	Analysis	524.2		1	47680	CM	EA SB	02/13/23 19:24

Client Sample ID: FB-20230212

Lab Sample ID: 240-180293-3

Date Collected: 02/12/23 09:30

Matrix: Water

Date Received: 02/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	47676	DC	EA SB	02/13/23 20:38
Total/NA	Analysis	524.2		1	47646	CM	EA SB	02/13/23 19:24

Laboratory References:

EA SB = Eurofins Eaton South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Accreditation/Certification Summary

Client: AECOM
 Project/Site: East Palestine

Job ID: 240-180293-1

Laboratory: Eurofins Eaton South Bend

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

Authority	Program	Identification Number	Expiration Date
A2LA	ISO/IEC 17025	5794.01	07-31-24
Alabama	State	40700	06-30-23
Alaska	State	IN00035	06-30-23
Arizona	State	AZ0432	07-26-23
Arkansas (DW)	State	EPA IN00035	06-30-23
California	State	2920	06-30-23
Colorado	State	IN00035	02-28-23
Connecticut	State	PH-0132	03-31-22 *
Delaware (DW)	State	IN00035	06-30-23
Florida	NELAP	E87775	06-30-23
Georgia (DW)	State	929	06-30-23
Hawaii	State	IN035	06-30-23
Idaho (DW)	State	IN00035	12-31-23
IL Dept. of Public Health (Micro)	State	17767	12-31-22 *
Illinois	NELAP	200001	09-30-23
Indiana	State	C-71-01	12-31-22 *
Indiana (Micro)	State	M-76-07	12-31-25
Iowa	State	IA Lab #098	11-01-23
Kansas	NELAP	E-10233	10-31-23
Kentucky (DW)	State	KY90056	12-31-22 *
Louisiana (DW)	State	LA014	12-31-23
Maine	State	IN00035	05-01-23
Maryland	State	209	03-31-23
Massachusetts	State	M-IN035	06-30-23
MI - RadChem Recognition	State	9926	06-30-23
Michigan	State	9926	12-31-22 *
Minnesota	NELAP	1989807	12-31-23
Mississippi	State	IN00035	06-30-22 *
Missouri	State	880	09-30-24
Montana (DW)	State	CERT0026	01-02-24
Nebraska	State	NE-OS-05-04	06-30-23
Nevada	State	IN000352021-2	07-31-23
New Hampshire	NELAP	2124	11-05-23
New Jersey	NELAP	IN598	06-30-23
New Mexico	State	IN00035	06-30-23
New York	NELAP	11398	04-01-23
North Carolina (DW)	State	18700	07-31-23
North Dakota	State	R-035	06-30-23
Ohio	State	87775	06-30-23
Oklahoma	NELAP	D9508	08-31-23
Oregon	NELAP	4156	09-16-23
Pennsylvania	NELAP	68-00466	04-30-23
Puerto Rico	State	IN00035	04-01-23
Rhode Island	State	LAO00343	12-30-22 *
South Carolina	State	95005001	06-30-23
South Dakota (DW)	State	IN00035	12-31-22 *
Tennessee	State	TN02973	06-30-23
Texas	NELAP	T104704187-22-16	12-31-23
Texas	TCEQ Water Supply	TX207	06-30-23
USEPA Reg X SDWA	US Federal Programs	IN00035	08-20-22 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Canton

Accreditation/Certification Summary

Client: AECOM
Project/Site: East Palestine

Job ID: 240-180293-1

Laboratory: Eurofins Eaton South Bend (Continued)

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

Authority	Program	Identification Number	Expiration Date
USEPA UCMR 5	US Federal Programs	IN00035	12-31-25
Utah	NELAP	IN00035	07-31-23
Vermont	State	VT-8775	11-15-23
Virginia	NELAP	460275	03-14-23
Washington	State	C837	01-01-23 *
West Virginia (DW)	State	9927 C	12-31-22 *
Wisconsin	State	999766900	08-31-23
Wisconsin (Micro)	State	10121	12-31-22 *
Wyoming	State	8TMS-L	06-30-23

Preliminary Data

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Client AECOM Site Name Cooler unpacked by: JME
Cooler Received on 2-12-23 Opened on 2-13-23
FedEx: 1st Grd Exp UPS FAS Clipper 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
IR GUN # IR-13 (CF -0.2 °C) Observed Cooler Temp. 3.5 °C Corrected Cooler Temp. 3.3 °C
IR GUN # IR-16 (CF -0.1 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C
IR GUN # IR-17 (CF -0.3 °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 Yes No
-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
-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)?
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# HC203064-291590
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 01042016 Yes No
17. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving: VOAs Oil and Grease TOC

Contacted PM KMB/PO Date 2-13-23 by JME via Verbal Voice Mail Other
Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by:

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) 3x40 pres VOAs for Pw 205 were received with bubble >6 mm in diameter. (Notify PM)
3x40 pres VOAs for FB

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:

180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



Client Information (Sub Contract Lab)

Client Contact: **Brooks, Kris M** Lab Pk: **Brooks, Kris M** Carrier Tracking No(s): **240-163860-1**

Shipping/Receiving: **Kris Brooks@el.eurofins.com** E-Mail: **Ohio** State of Origin: **Ohio**

Company: **Eurofins Eaton Analytical** Address: **110 S Hill Street** City: **South Bend** State, Zip: **IN, 46617**

Due Date Requested: **2/17/2023** TAT Requested (days): **7**

Phone: **574-233-4777(Tel) 574-233-8207(Fax)** PO #: **24030748**

Email: **WO #:** **Project #:** **24030748** **SSOW#:**

Project Name: **East Palestine** Site: **East Palestine**

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

524.2_Pres_PREC/ VOC_524.2 Extended

525.2_Ext/525.2_Prep (MOD) Extended SVOC list

524.2_Ext/ Ethanol

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Ammonia
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDTA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MC/AA
W - pH 4-5
Y - Trizma
Z - other (specify)

Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C-comp, G-grab)	MATRIX (Water, Sealed, Overstated, BI-tissue, AAH)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
PW-205-20230212 (240-180293-1)	2/12/23	09:50 Eastern		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6	Ethanol Smart TIC 3 VOC vials w/ acceptable bubbles
PW-207-20230212 (240-180293-2)	2/12/23	10:20 Eastern		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6	Ethanol Smart TIC
FB-20230212 (240-180293-3)	2/12/23	09:30 Eastern		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6	Ethanol Smart TIC 5 VOC vials w/ large bubbles
TB-20230212 (240-180293-4)	2/12/23	09:30 Eastern		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	ppm 02/13/23

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyze & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification

Unconfirmed Confirmed

Deliverable Requested: I, II, III, IV, Other (specify) **Primary Deliverable Rank: 2**

Special Instructions/QC Requirements: Return To Client Disposal By Lab Archive For Months

Empty Kit Relinquished by: **ETX** Date: **2-13-23** Method of Shipment: **1500**

Relinquished by: **ETX** Date/Time: **02/13/23 10:10** Company: **ETX**

Relinquished by: **ETX** Date/Time: **02/13/23 10:10** Company: **ETX**

Relinquished by: **ETX** Date/Time: **02/13/23 10:10** Company: **ETX**

Relinquished by: **ETX** Date/Time: **02/13/23 10:10** Company: **ETX**

Custody Seals Intact: Yes No

Custody Seal No.: **Client Provided Sample Container**

Received by: **ETX** Date/Time: **02/13/23 10:10** Company: **ETX**

Received by: **ETX** Date/Time: **02/13/23 10:10** Company: **ETX**

Received by: **ETX** Date/Time: **02/13/23 10:10** Company: **ETX**

Received by: **ETX** Date/Time: **02/13/23 10:10** Company: **ETX**

Cooler Temperature(s) °C and Other Remarks: **IR Gun # 3826**

Login Sample Receipt Checklist

Client: AECOM

Job Number: 240-180293-1

Login Number: 180293

List Number: 2

Creator: Pehling-Wright, Penny

List Source: Eurofins Eaton South Bend

List Creation: 02/13/23 03:12 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
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	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	False	Client provided containers

Preliminary Data

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15