

ANALYTICAL REPORT

PREPARED FOR

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Generated 12/2/2024 7:09:10 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-215038-1

Eurofins Cleveland

Job Notes

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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



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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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: Arcadis US Inc.
Project: Ford LTP

Job ID: 240-215038-1

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Job Narrative 240-215038-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 11/15/2024 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 4 coolers at receipt time were 1.1°C, 1.3°C, 1.4°C and 2.3°C.

GC/MS VOA

Method 8260D: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: DUP-05 (240-215038-8). Elevated reporting limits (RLs) are provided.

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

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Method Summary

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CLE
8260D SIM	Volatile Organic Compounds (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: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-215038-1	TRIP BLANK_113	Water	11/13/24 00:00	11/15/24 08:00
240-215038-2	MW-03_111324	Water	11/13/24 11:40	11/15/24 08:00
240-215038-3	MW-05_111324	Water	11/13/24 10:25	11/15/24 08:00
240-215038-4	MW-23_111324	Water	11/13/24 14:00	11/15/24 08:00
240-215038-5	DUP-03	Water	11/13/24 00:00	11/15/24 08:00
240-215038-6	MW-22_111324	Water	11/13/24 15:15	11/15/24 08:00
240-215038-7	MW-44_111324	Water	11/13/24 16:25	11/15/24 08:00
240-215038-8	DUP-05	Water	11/13/24 00:00	11/15/24 08:00

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- 10
- 11
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- 13
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Detection Summary

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

Client Sample ID: TRIP BLANK_113

Lab Sample ID: 240-215038-1

No Detections.

Client Sample ID: MW-03_111324

Lab Sample ID: 240-215038-2

No Detections.

Client Sample ID: MW-05_111324

Lab Sample ID: 240-215038-3

No Detections.

Client Sample ID: MW-23_111324

Lab Sample ID: 240-215038-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4500		200	92	ug/L	200		8260D	Total/NA
trans-1,2-Dichloroethene	240		200	100	ug/L	200		8260D	Total/NA
Trichloroethene	360		200	88	ug/L	200		8260D	Total/NA
Vinyl chloride	180	J	200	90	ug/L	200		8260D	Total/NA

Client Sample ID: DUP-03

Lab Sample ID: 240-215038-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4400		130	58	ug/L	125		8260D	Total/NA
trans-1,2-Dichloroethene	260		130	64	ug/L	125		8260D	Total/NA
Trichloroethene	410		130	55	ug/L	125		8260D	Total/NA
Vinyl chloride	200		130	56	ug/L	125		8260D	Total/NA

Client Sample ID: MW-22_111324

Lab Sample ID: 240-215038-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	51		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	1400		67	30	ug/L	66.67		8260D	Total/NA

Client Sample ID: MW-44_111324

Lab Sample ID: 240-215038-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	5.3		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	37		1.0	0.45	ug/L	1		8260D	Total/NA

Client Sample ID: DUP-05

Lab Sample ID: 240-215038-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	4.4		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	24		2.0	0.90	ug/L	2		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

Client Sample ID: TRIP BLANK_113

Lab Sample ID: 240-215038-1

Date Collected: 11/13/24 00:00

Matrix: Water

Date Received: 11/15/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/21/24 17:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/24 17:18	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 17:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/24 17:18	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 17:18	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/21/24 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	128		62 - 137		11/21/24 17:18	1
4-Bromofluorobenzene (Surr)	74		56 - 136		11/21/24 17:18	1
Toluene-d8 (Surr)	92		78 - 122		11/21/24 17:18	1
Dibromofluoromethane (Surr)	114		73 - 120		11/21/24 17:18	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

Client Sample ID: MW-03_111324

Lab Sample ID: 240-215038-2

Date Collected: 11/13/24 11:40

Matrix: Water

Date Received: 11/15/24 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/21/24 22:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		68 - 127					11/21/24 22:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/21/24 17:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/24 17:38	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 17:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/24 17:38	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 17:38	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/21/24 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	128		62 - 137					11/21/24 17:38	1
4-Bromofluorobenzene (Surr)	74		56 - 136					11/21/24 17:38	1
Toluene-d8 (Surr)	93		78 - 122					11/21/24 17:38	1
Dibromofluoromethane (Surr)	108		73 - 120					11/21/24 17:38	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

Client Sample ID: MW-05_111324

Lab Sample ID: 240-215038-3

Date Collected: 11/13/24 10:25

Matrix: Water

Date Received: 11/15/24 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/21/24 22:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		68 - 127					11/21/24 22:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/21/24 17:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/24 17:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 17:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/24 17:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 17:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/21/24 17:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	128		62 - 137					11/21/24 17:58	1
4-Bromofluorobenzene (Surr)	79		56 - 136					11/21/24 17:58	1
Toluene-d8 (Surr)	95		78 - 122					11/21/24 17:58	1
Dibromofluoromethane (Surr)	111		73 - 120					11/21/24 17:58	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

Client Sample ID: MW-23_111324

Lab Sample ID: 240-215038-4

Date Collected: 11/13/24 14:00

Matrix: Water

Date Received: 11/15/24 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/21/24 23:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127					11/21/24 23:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	200	U	200	98	ug/L			11/22/24 14:46	200
cis-1,2-Dichloroethene	4500		200	92	ug/L			11/22/24 14:46	200
Tetrachloroethene	200	U	200	88	ug/L			11/22/24 14:46	200
trans-1,2-Dichloroethene	240		200	100	ug/L			11/22/24 14:46	200
Trichloroethene	360		200	88	ug/L			11/22/24 14:46	200
Vinyl chloride	180	J	200	90	ug/L			11/22/24 14:46	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137					11/22/24 14:46	200
4-Bromofluorobenzene (Surr)	98		56 - 136					11/22/24 14:46	200
Toluene-d8 (Surr)	99		78 - 122					11/22/24 14:46	200
Dibromofluoromethane (Surr)	94		73 - 120					11/22/24 14:46	200

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

Client Sample ID: DUP-03

Lab Sample ID: 240-215038-5

Date Collected: 11/13/24 00:00

Matrix: Water

Date Received: 11/15/24 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/21/24 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		68 - 127					11/21/24 23:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	130	U	130	61	ug/L			11/22/24 15:09	125
cis-1,2-Dichloroethene	4400		130	58	ug/L			11/22/24 15:09	125
Tetrachloroethene	130	U	130	55	ug/L			11/22/24 15:09	125
trans-1,2-Dichloroethene	260		130	64	ug/L			11/22/24 15:09	125
Trichloroethene	410		130	55	ug/L			11/22/24 15:09	125
Vinyl chloride	200		130	56	ug/L			11/22/24 15:09	125
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137					11/22/24 15:09	125
4-Bromofluorobenzene (Surr)	98		56 - 136					11/22/24 15:09	125
Toluene-d8 (Surr)	103		78 - 122					11/22/24 15:09	125
Dibromofluoromethane (Surr)	96		73 - 120					11/22/24 15:09	125

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

Client Sample ID: MW-22_111324

Lab Sample ID: 240-215038-6

Date Collected: 11/13/24 15:15

Matrix: Water

Date Received: 11/15/24 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	51		2.0	0.86	ug/L			11/21/24 23:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		68 - 127					11/21/24 23:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	67	U	67	33	ug/L			11/22/24 15:32	66.67
cis-1,2-Dichloroethene	67	U	67	31	ug/L			11/22/24 15:32	66.67
Tetrachloroethene	67	U	67	29	ug/L			11/22/24 15:32	66.67
trans-1,2-Dichloroethene	67	U	67	34	ug/L			11/22/24 15:32	66.67
Trichloroethene	67	U	67	29	ug/L			11/22/24 15:32	66.67
Vinyl chloride	1400		67	30	ug/L			11/22/24 15:32	66.67
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137					11/22/24 15:32	66.67
4-Bromofluorobenzene (Surr)	100		56 - 136					11/22/24 15:32	66.67
Toluene-d8 (Surr)	101		78 - 122					11/22/24 15:32	66.67
Dibromofluoromethane (Surr)	96		73 - 120					11/22/24 15:32	66.67

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

Client Sample ID: MW-44_111324

Lab Sample ID: 240-215038-7

Date Collected: 11/13/24 16:25

Matrix: Water

Date Received: 11/15/24 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	5.3		2.0	0.86	ug/L			11/22/24 00:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		68 - 127					11/22/24 00:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/21/24 18:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/24 18:18	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 18:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/24 18:18	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 18:18	1
Vinyl chloride	37		1.0	0.45	ug/L			11/21/24 18:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	137		62 - 137					11/21/24 18:18	1
4-Bromofluorobenzene (Surr)	86		56 - 136					11/21/24 18:18	1
Toluene-d8 (Surr)	103		78 - 122					11/21/24 18:18	1
Dibromofluoromethane (Surr)	118		73 - 120					11/21/24 18:18	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

Client Sample ID: DUP-05

Lab Sample ID: 240-215038-8

Date Collected: 11/13/24 00:00

Matrix: Water

Date Received: 11/15/24 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	4.4		2.0	0.86	ug/L			11/22/24 00:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		68 - 127					11/22/24 00:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	2.0	U	2.0	0.98	ug/L			11/25/24 12:06	2
cis-1,2-Dichloroethene	2.0	U	2.0	0.92	ug/L			11/25/24 12:06	2
Tetrachloroethene	2.0	U	2.0	0.88	ug/L			11/25/24 12:06	2
trans-1,2-Dichloroethene	2.0	U	2.0	1.0	ug/L			11/25/24 12:06	2
Trichloroethene	2.0	U	2.0	0.88	ug/L			11/25/24 12:06	2
Vinyl chloride	24		2.0	0.90	ug/L			11/25/24 12:06	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137					11/25/24 12:06	2
4-Bromofluorobenzene (Surr)	99		56 - 136					11/25/24 12:06	2
Toluene-d8 (Surr)	101		78 - 122					11/25/24 12:06	2
Dibromofluoromethane (Surr)	94		73 - 120					11/25/24 12:06	2

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (62-137)	BFB (56-136)	TOL (78-122)	DBFM (73-120)
240-215038-1	TRIP BLANK_113	128	74	92	114
240-215038-2	MW-03_111324	128	74	93	108
240-215038-3	MW-05_111324	128	79	95	111
240-215038-4	MW-23_111324	98	98	99	94
240-215038-4 MS	MW-23_111324	100	102	105	97
240-215038-4 MSD	MW-23_111324	98	104	104	93
240-215038-5	DUP-03	100	98	103	96
240-215038-6	MW-22_111324	102	100	101	96
240-215038-7	MW-44_111324	137	86	103	118
240-215038-7 MS	MW-44_111324	115	95	102	101
240-215038-7 MSD	MW-44_111324	110	93	99	97
240-215038-8	DUP-05	104	99	101	94
240-215412-A-1 MSD	Matrix Spike Duplicate	96	102	103	95
240-215412-C-1 MS	Matrix Spike	102	104	108	97
LCS 240-636190/4	Lab Control Sample	112	98	97	100
LCS 240-636343/4	Lab Control Sample	97	101	100	91
LCS 240-636591/4	Lab Control Sample	101	102	101	93
MB 240-636190/7	Method Blank	118	83	94	103
MB 240-636343/7	Method Blank	101	101	101	90
MB 240-636591/7	Method Blank	104	100	100	93

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (68-127)
240-215038-2	MW-03_111324	108
240-215038-3	MW-05_111324	109
240-215038-4	MW-23_111324	106
240-215038-5	DUP-03	110
240-215038-6	MW-22_111324	110
240-215038-7	MW-44_111324	110
240-215038-8	DUP-05	110
240-215041-C-2 MS	Matrix Spike	108
240-215041-C-2 MSD	Matrix Spike Duplicate	110
LCS 240-636236/4	Lab Control Sample	108
MB 240-636236/6	Method Blank	106

Surrogate Legend

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

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

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

Lab Sample ID: MB 240-636190/7

Matrix: Water

Analysis Batch: 636190

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/21/24 11:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/24 11:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 11:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/24 11:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 11:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/21/24 11:57	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	118		62 - 137		11/21/24 11:57	1
4-Bromofluorobenzene (Surr)	83		56 - 136		11/21/24 11:57	1
Toluene-d8 (Surr)	94		78 - 122		11/21/24 11:57	1
Dibromofluoromethane (Surr)	103		73 - 120		11/21/24 11:57	1

Lab Sample ID: LCS 240-636190/4

Matrix: Water

Analysis Batch: 636190

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1-Dichloroethene	25.0	27.7		ug/L		111	63 - 134
cis-1,2-Dichloroethene	25.0	26.8		ug/L		107	77 - 123
Tetrachloroethene	25.0	25.7		ug/L		103	76 - 123
trans-1,2-Dichloroethene	25.0	28.2		ug/L		113	75 - 124
Trichloroethene	25.0	24.9		ug/L		100	70 - 122
Vinyl chloride	12.5	15.4		ug/L		123	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	112		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

Lab Sample ID: 240-215038-7 MS

Matrix: Water

Analysis Batch: 636190

Client Sample ID: MW-44_111324

Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	1.0	U	25.0	25.7		ug/L		103	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	25.5		ug/L		102	66 - 128
Tetrachloroethene	1.0	U	25.0	25.1		ug/L		100	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	26.4		ug/L		106	56 - 136
Trichloroethene	1.0	U	25.0	25.0		ug/L		100	61 - 124
Vinyl chloride	37		12.5	44.1		ug/L		54	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	115		62 - 137
4-Bromofluorobenzene (Surr)	95		56 - 136
Toluene-d8 (Surr)	102		78 - 122

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

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

Lab Sample ID: 240-215038-7 MS
Matrix: Water
Analysis Batch: 636190

Client Sample ID: MW-44_111324
Prep Type: Total/NA

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	101		73 - 120

Lab Sample ID: 240-215038-7 MSD
Matrix: Water
Analysis Batch: 636190

Client Sample ID: MW-44_111324
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,1-Dichloroethene	1.0	U	25.0	28.4		ug/L		114	56 - 135	10	26
cis-1,2-Dichloroethene	1.0	U	25.0	26.8		ug/L		107	66 - 128	5	14
Tetrachloroethene	1.0	U	25.0	27.0		ug/L		108	62 - 131	7	20
trans-1,2-Dichloroethene	1.0	U	25.0	27.6		ug/L		110	56 - 136	5	15
Trichloroethene	1.0	U	25.0	25.5		ug/L		102	61 - 124	2	15
Vinyl chloride	37		12.5	46.2		ug/L		71	43 - 157	5	24

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	110		62 - 137
4-Bromofluorobenzene (Surr)	93		56 - 136
Toluene-d8 (Surr)	99		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: MB 240-636343/7
Matrix: Water
Analysis Batch: 636343

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/22/24 11:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/22/24 11:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/22/24 11:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/22/24 11:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/22/24 11:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/22/24 11:43	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	101		62 - 137		11/22/24 11:43	1
4-Bromofluorobenzene (Surr)	101		56 - 136		11/22/24 11:43	1
Toluene-d8 (Surr)	101		78 - 122		11/22/24 11:43	1
Dibromofluoromethane (Surr)	90		73 - 120		11/22/24 11:43	1

Lab Sample ID: LCS 240-636343/4
Matrix: Water
Analysis Batch: 636343

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
1,1-Dichloroethene	25.0	23.3		ug/L		93	63 - 134
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	77 - 123
Tetrachloroethene	25.0	24.8		ug/L		99	76 - 123
trans-1,2-Dichloroethene	25.0	22.6		ug/L		90	75 - 124
Trichloroethene	25.0	23.3		ug/L		93	70 - 122

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

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

Lab Sample ID: LCS 240-636343/4

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 636343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	12.5	13.1		ug/L		105	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	91		73 - 120

Lab Sample ID: 240-215038-4 MS

Client Sample ID: MW-23_111324

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 636343

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	200	U	5000	4080		ug/L		82	56 - 135
cis-1,2-Dichloroethene	4500		5000	9180		ug/L		94	66 - 128
Tetrachloroethene	200	U	5000	4260		ug/L		85	62 - 131
trans-1,2-Dichloroethene	240		5000	4380		ug/L		83	56 - 136
Trichloroethene	360		5000	4460		ug/L		82	61 - 124
Vinyl chloride	180	J	2500	2530		ug/L		94	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: 240-215038-4 MSD

Client Sample ID: MW-23_111324

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 636343

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	200	U	5000	4310		ug/L		86	56 - 135	6	26
cis-1,2-Dichloroethene	4500		5000	9000		ug/L		90	66 - 128	2	14
Tetrachloroethene	200	U	5000	4610		ug/L		92	62 - 131	8	20
trans-1,2-Dichloroethene	240		5000	4360		ug/L		83	56 - 136	0	15
Trichloroethene	360		5000	4430		ug/L		81	61 - 124	1	15
Vinyl chloride	180	J	2500	2530		ug/L		94	43 - 157	0	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	104		56 - 136
Toluene-d8 (Surr)	104		78 - 122
Dibromofluoromethane (Surr)	93		73 - 120

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

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

Lab Sample ID: MB 240-636591/7

Matrix: Water

Analysis Batch: 636591

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/25/24 11:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/25/24 11:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 11:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/25/24 11:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 11:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/25/24 11:43	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	104		62 - 137		11/25/24 11:43	1
4-Bromofluorobenzene (Surr)	100		56 - 136		11/25/24 11:43	1
Toluene-d8 (Surr)	100		78 - 122		11/25/24 11:43	1
Dibromofluoromethane (Surr)	93		73 - 120		11/25/24 11:43	1

Lab Sample ID: LCS 240-636591/4

Matrix: Water

Analysis Batch: 636591

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	77 - 123
Tetrachloroethene	25.0	25.6		ug/L		102	76 - 123
trans-1,2-Dichloroethene	25.0	22.9		ug/L		92	75 - 124
Trichloroethene	25.0	23.5		ug/L		94	70 - 122
Vinyl chloride	12.5	13.1		ug/L		105	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	93		73 - 120

Lab Sample ID: 240-215412-A-1 MSD

Matrix: Water

Analysis Batch: 636591

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
	Result	Qualifier									
1,1-Dichloroethene	1.0	U	25.0	24.3		ug/L		97	56 - 135	6	26
cis-1,2-Dichloroethene	1.0	U	25.0	24.9		ug/L		100	66 - 128	2	14
Tetrachloroethene	1.0	U	25.0	24.5		ug/L		98	62 - 131	3	20
trans-1,2-Dichloroethene	1.0	U	25.0	23.1		ug/L		93	56 - 136	2	15
Trichloroethene	1.0	U	25.0	23.8		ug/L		95	61 - 124	4	15
Vinyl chloride	1.0	U	12.5	11.9		ug/L		95	43 - 157	10	24

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	103		78 - 122

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

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

Lab Sample ID: 240-215412-A-1 MSD
Matrix: Water
Analysis Batch: 636591

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

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	95		73 - 120

Lab Sample ID: 240-215412-C-1 MS
Matrix: Water
Analysis Batch: 636591

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

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
1,1-Dichloroethene	1.0	U	25.0	22.8		ug/L		91	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	25.3		ug/L		101	66 - 128
Tetrachloroethene	1.0	U	25.0	23.8		ug/L		95	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	22.8		ug/L		91	56 - 136
Trichloroethene	1.0	U	25.0	22.8		ug/L		91	61 - 124
Vinyl chloride	1.0	U	12.5	10.8		ug/L		87	43 - 157

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		62 - 137
4-Bromofluorobenzene (Surr)	104		56 - 136
Toluene-d8 (Surr)	108		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

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

Lab Sample ID: MB 240-636236/6
Matrix: Water
Analysis Batch: 636236

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/21/24 21:08	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)	106		68 - 127		11/21/24 21:08	1

Lab Sample ID: LCS 240-636236/4
Matrix: Water
Analysis Batch: 636236

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				
1,4-Dioxane	10.0	9.69		ug/L		97	75 - 121

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		68 - 127

Lab Sample ID: 240-215041-C-2 MS
Matrix: Water
Analysis Batch: 636236

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

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
1,4-Dioxane	2.0	U	10.0	8.83		ug/L		88	20 - 180

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	108		68 - 127

Lab Sample ID: 240-215041-C-2 MSD
Matrix: Water
Analysis Batch: 636236

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

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
1,4-Dioxane	2.0	U	10.0	10.3		ug/L		103	20 - 180	15	20

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	110		68 - 127



QC Association Summary

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

GC/MS VOA

Analysis Batch: 636190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-215038-1	TRIP BLANK_113	Total/NA	Water	8260D	
240-215038-2	MW-03_111324	Total/NA	Water	8260D	
240-215038-3	MW-05_111324	Total/NA	Water	8260D	
240-215038-7	MW-44_111324	Total/NA	Water	8260D	
MB 240-636190/7	Method Blank	Total/NA	Water	8260D	
LCS 240-636190/4	Lab Control Sample	Total/NA	Water	8260D	
240-215038-7 MS	MW-44_111324	Total/NA	Water	8260D	
240-215038-7 MSD	MW-44_111324	Total/NA	Water	8260D	

Analysis Batch: 636236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-215038-2	MW-03_111324	Total/NA	Water	8260D SIM	
240-215038-3	MW-05_111324	Total/NA	Water	8260D SIM	
240-215038-4	MW-23_111324	Total/NA	Water	8260D SIM	
240-215038-5	DUP-03	Total/NA	Water	8260D SIM	
240-215038-6	MW-22_111324	Total/NA	Water	8260D SIM	
240-215038-7	MW-44_111324	Total/NA	Water	8260D SIM	
240-215038-8	DUP-05	Total/NA	Water	8260D SIM	
MB 240-636236/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-636236/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-215041-C-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-215041-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 636343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-215038-4	MW-23_111324	Total/NA	Water	8260D	
240-215038-5	DUP-03	Total/NA	Water	8260D	
240-215038-6	MW-22_111324	Total/NA	Water	8260D	
MB 240-636343/7	Method Blank	Total/NA	Water	8260D	
LCS 240-636343/4	Lab Control Sample	Total/NA	Water	8260D	
240-215038-4 MS	MW-23_111324	Total/NA	Water	8260D	
240-215038-4 MSD	MW-23_111324	Total/NA	Water	8260D	

Analysis Batch: 636591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-215038-8	DUP-05	Total/NA	Water	8260D	
MB 240-636591/7	Method Blank	Total/NA	Water	8260D	
LCS 240-636591/4	Lab Control Sample	Total/NA	Water	8260D	
240-215412-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-215412-C-1 MS	Matrix Spike	Total/NA	Water	8260D	

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

Client Sample ID: TRIP BLANK_113

Lab Sample ID: 240-215038-1

Date Collected: 11/13/24 00:00

Matrix: Water

Date Received: 11/15/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	636190	LEE	EET CLE	11/21/24 17:18

Client Sample ID: MW-03_111324

Lab Sample ID: 240-215038-2

Date Collected: 11/13/24 11:40

Matrix: Water

Date Received: 11/15/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	636190	LEE	EET CLE	11/21/24 17:38
Total/NA	Analysis	8260D SIM		1	636236	R5XG	EET CLE	11/21/24 22:19

Client Sample ID: MW-05_111324

Lab Sample ID: 240-215038-3

Date Collected: 11/13/24 10:25

Matrix: Water

Date Received: 11/15/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	636190	LEE	EET CLE	11/21/24 17:58
Total/NA	Analysis	8260D SIM		1	636236	R5XG	EET CLE	11/21/24 22:42

Client Sample ID: MW-23_111324

Lab Sample ID: 240-215038-4

Date Collected: 11/13/24 14:00

Matrix: Water

Date Received: 11/15/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		200	636343	LEE	EET CLE	11/22/24 14:46
Total/NA	Analysis	8260D SIM		1	636236	R5XG	EET CLE	11/21/24 23:06

Client Sample ID: DUP-03

Lab Sample ID: 240-215038-5

Date Collected: 11/13/24 00:00

Matrix: Water

Date Received: 11/15/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		125	636343	LEE	EET CLE	11/22/24 15:09
Total/NA	Analysis	8260D SIM		1	636236	R5XG	EET CLE	11/21/24 23:29

Client Sample ID: MW-22_111324

Lab Sample ID: 240-215038-6

Date Collected: 11/13/24 15:15

Matrix: Water

Date Received: 11/15/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		66.67	636343	LEE	EET CLE	11/22/24 15:32
Total/NA	Analysis	8260D SIM		1	636236	R5XG	EET CLE	11/21/24 23:53

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

Client Sample ID: MW-44_111324

Lab Sample ID: 240-215038-7

Date Collected: 11/13/24 16:25

Matrix: Water

Date Received: 11/15/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	636190	LEE	EET CLE	11/21/24 18:18
Total/NA	Analysis	8260D SIM		1	636236	R5XG	EET CLE	11/22/24 00:16

Client Sample ID: DUP-05

Lab Sample ID: 240-215038-8

Date Collected: 11/13/24 00:00

Matrix: Water

Date Received: 11/15/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	636591	LEE	EET CLE	11/25/24 12:06
Total/NA	Analysis	8260D SIM		1	636236	R5XG	EET CLE	11/22/24 00:40

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-215038-1

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	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-24

Chain of Custody Record

TestAmerica Laboratory location: Brighton — 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

Client Contact Company Name: Arcadis Address: 28550 Cabot Drive, Suite 500 City/State/Zip: Novi, MI, 48377 Phone: 248-994-2240 Project Name: Ford LTP Project Number: 30206169.0401.03 PO # US3410018772		Regulatory program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other _____		Client Project Manager: Kris Hinskey Telephone: 248-994-2240 Email: kristoffer.hinskey@arcadis.com		Site Contact: Christina Weaver Telephone: 248-994-2240		Lab Contact: Mike DelMonico Telephone: 330-497-9396		TestAmerica Laboratories, Inc. COC No: _____ 1 of 1 COCs For lab use only Walk-in client Lab sampling Job/SDG No: _____ Sample Specific Notes / Special Instructions: _____																			
Analysis Turnaround Time TAT if different from below: 10 day <input checked="" type="checkbox"/> 3 weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day			Analyses																										
Matrix			Containers & Preservatives						Filtered Sample (Y/N)			Composite-C / Grab-G																	
									1,1-DCE 8260D			cis-1,2-DCE 8260D			Trans-1,2-DCE 8260D			PCE 8260D			TCE 8260D			Vinyl Chloride 8260D			1,4-Dioxane 8260D SIM		
Sample Identification			Sample Date	Sample Time	Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres.	Other:	Filtered Sample (Y/N)	Composite-C / Grab-G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM	Sample Specific Notes / Special Instructions:			
✓ TRIP BLANK_ 113			---	---	1							1					NG	X	X	X	X	X	X				1 Trip Blank		
✓ MW-03_111324			11/13/24	1140	6							6					NG	X	X	X	X	X	X	X				3 VOAs for 8260D 3 VOAs for 8260D SIM	
✓ MW-05_111324			11/13/24	1025	6							6					NG	X	X	X	X	X	X	X					
✓ MW-23_111324			11/13/24	1400	6							6					NG	X	X	X	X	X	X	X					
✓ DUP-03			11/13/24	-	6							6					NG	X	X	X	X	X	X	X					
✓ MW-22_111324			11/13/24	1515	6							6					NG	X	X	X	X	X	X	X					
✓ MW-44_111324			11/18/24	1625	6							6					NG	X	X	X	X	X	X	X					
✓ DUP-05			11/13/24	-	6							6					NG	X	X	X	X	X	X	X					
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																										
Special Instructions/QC Requirements & Comments: Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728 Level IV Reporting requested.																													
Relinquished by:			Company: Arcadis			Date/Time: 11/13/24 1730			Received by:			Company: Arcadis			Date/Time: 11/13/24 1730														
Relinquished by:			Company: Arcadis			Date/Time: 11/14/24 1650			Received by:			Company: EETA			Date/Time: 11/14/24 1651														
Relinquished by:			Company: EETA			Date/Time: 11/14/24 1700			Received in Laboratory by:			Company: Euro			Date/Time: 11/15/24 8:00														

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Client ArcaB3 Site Name _____ Cooler unpacked by: JF
 Cooler Received on 11/15/24 Opened on 11/15/24

FedEx: 1st 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 # 17 (CF 70.1 °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 NA
 -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 NA
 4 Did custody papers accompany the sample(s)? Yes No NA
 5 Were the custody papers relinquished & signed in the appropriate place? Yes No NA
 6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No NA
 7 Did all bottles arrive in good condition (Unbroken)? Yes No NA
 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No NA
 9 For each sample, does the COC specify preservative(s) (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 NA
 11 Sufficient quantity received to perform indicated analyses? Yes No NA
 12. Are these work share samples and all listed on the COC? Yes No NA
 If yes, Questions 13-17 have been checked at the originating laboratory

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

13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC4448976
 14 Were VOAs on the COC? Yes No NA
 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 # Covered Yes No NA
 17 Was a LL Hg or Me Hg trip blank present? Yes No NA

Contacted PM _____ Date _____ by _____ 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) _____ were received with bubble >6 mm in diameter (Notify PM)

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

Login # _____

Cooler Description (Circle)		IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client	Box Other	IR GUN #: 19	1.9	1.9	Wet/ice Blue/ice Dry/ice
EC Client	Box Other	IR GUN #: _____	1.8	1.9	Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____	1.0	1.1	Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____	2.2	2.3	Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None
EC Client	Box Other	IR GUN #: _____			Wet/ice Water Blue/ice None

See Temperature Excursion Form



11/15/2024

Login Container Summary Report

240-215038

12/2/2024

Temperature readings

Client Sample ID	Lab ID	Container Type	Container pH	Preservation Temp	Preservation Added	Preservation Lot Number
TRIP BLANK_113	240-215038-A-1	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-03_111324	240-215038-A-2	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-03_111324	240-215038-B-2	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-03_111324	240-215038-C-2	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-03_111324	240-215038-D-2	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-03_111324	240-215038-E-2	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-03_111324	240-215038-G-2	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-05_111324	240-215038-A-3	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-05_111324	240-215038-B-3	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-05_111324	240-215038-C-3	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-05_111324	240-215038-D-3	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-05_111324	240-215038-E-3	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-05_111324	240-215038-F-3	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-23_111324	240-215038-A-4	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-23_111324	240-215038-B-4	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-23_111324	240-215038-C-4	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-23_111324	240-215038-D-4	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-23_111324	240-215038-E-4	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-23_111324	240-215038-F-4	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-03	240-215038-A-5	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-03	240-215038-B-5	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-03	240-215038-C-5	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-03	240-215038-D-5	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-03	240-215038-E-5	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-03	240-215038-F-5	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-22_111324	240-215038-A-6	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-22_111324	240-215038-B-6	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-22_111324	240-215038-C-6	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-22_111324	240-215038-D-6	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-22_111324	240-215038-E-6	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-22_111324	240-215038-F-6	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-44_111324	240-215038-A-7	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-44_111324	240-215038-B-7	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-44_111324	240-215038-C-7	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-44_111324	240-215038-D-7	Yoa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____



<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservation</u> <u>Added</u>	<u>Preservation</u> <u>Lot Number</u>
MW-44_111324	240-215038-E-7	Voa Vial 40ml - Hydrochloric Acid			
MW-44_111324	240-215038-F-7	Voa Vial 40ml - Hydrochloric Acid			
DUP-05	240-215038-A-8	Voa Vial 40ml - Hydrochloric Acid			
DUP-05	240-215038-B-8	Voa Vial 40ml - Hydrochloric Acid			
DUP-05	240-215038-C-8	Voa Vial 40ml - Hydrochloric Acid			
DUP-05	240-215038-D-8	Voa Vial 40ml - Hydrochloric Acid			
DUP-05	240-215038-E-8	Voa Vial 40ml - Hydrochloric Acid			
DUP-05	240-215038-F-8	Voa Vial 40ml - Hydrochloric Acid			

DATA VERIFICATION REPORT



December 02, 2024

Megan Meckley
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI US 48377

CADENA project ID: E203728
Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil
Project number: 30206169.0401.04_WA-03
Event Specific Scope of Work References: Sample COC
Laboratory: Eurofins Environment Testing LLC - Cleveland
Laboratory submittal: 215038-1
Sample date: 2024-11-13
Report received by CADENA: 2024-12-02
Initial Data Verification completed by CADENA: 2024-12-02
Number of Samples:8
Sample Matrices:Water
Test Categories:GCMS VOC
Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, MS/MSD Recovery, MS/MSD RPD, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at <http://clms.cadenaco.com/index.cfm>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
E	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 215038-1

Sample Name:	TRIP BLANK_113	MW-03_111324	MW-05_111324	MW-23_111324	DUP-03	MW-22_111324	MW-44_111324	DUP-05
Lab Sample ID:	2402150381	2402150382	2402150383	2402150384	2402150385	2402150386	2402150387	2402150388
Sample Date:	11/13/2024	11/13/2024	11/13/2024	11/13/2024	11/13/2024	11/13/2024	11/13/2024	11/13/2024

Analyte	Cas No.	Report			Valid			Report			Valid			Report			Valid			Report			Valid			Report			Valid		
		Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier		

GC/MS VOC

OSW-8260D

1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	200	ug/l	---	ND	130	ug/l	---	ND	67	ug/l	---	ND	1.0	ug/l	---	ND	2.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	4500	200	ug/l	---	4400	130	ug/l	---	ND	67	ug/l	---	ND	1.0	ug/l	---	ND	2.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	200	ug/l	---	ND	130	ug/l	---	ND	67	ug/l	---	ND	1.0	ug/l	---	ND	2.0	ug/l	---
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	240	200	ug/l	---	260	130	ug/l	---	ND	67	ug/l	---	ND	1.0	ug/l	---	ND	2.0	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	360	200	ug/l	---	410	130	ug/l	---	ND	67	ug/l	---	ND	1.0	ug/l	---	ND	2.0	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	180	200	ug/l	J	200	130	ug/l	---	1400	67	ug/l	---	37	1.0	ug/l	---	24	2.0	ug/l	---

OSW-8260DSIM

1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---	51	2.0	ug/l	---	5.3	2.0	ug/l	---	4.4	2.0	ug/l	---
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