

ANALYTICAL REPORT

PREPARED FOR

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Generated 5/21/2025 6:53:01 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-224507-1

Eurofins Cleveland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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Definitions/Glossary

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

Job ID: 240-224507-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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: 240-224507-1

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Job Narrative 240-224507-1

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 5/15/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.9°C and 3.1°C.

GC/MS VOA

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: 240-224507-1

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

Sample Summary

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

Job ID: 240-224507-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-224507-1	TRIP BLANK_124	Water	05/13/25 00:00	05/15/25 08:00
240-224507-2	MW-22_051325	Water	05/13/25 09:25	05/15/25 08:00
240-224507-3	MW-23_051325	Water	05/13/25 10:45	05/15/25 08:00
240-224507-4	MW-120_051325	Water	05/13/25 12:15	05/15/25 08:00
240-224507-5	MW-29_051325	Water	05/13/25 13:15	05/15/25 08:00
240-224507-6	MW-19_051325	Water	05/13/25 14:25	05/15/25 08:00
240-224507-7	DUP-02	Water	05/13/25 00:00	05/15/25 08:00
240-224507-8	DUP-03	Water	05/13/25 00:00	05/15/25 08:00

Detection Summary

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

Job ID: 240-224507-1

Client Sample ID: TRIP BLANK_124

Lab Sample ID: 240-224507-1

No Detections.

Client Sample ID: MW-22_051325

Lab Sample ID: 240-224507-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	59		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	890	F1	20	9.0	ug/L	20		8260D	Total/NA

Client Sample ID: MW-23_051325

Lab Sample ID: 240-224507-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	16	J	25	12	ug/L	25		8260D	Total/NA
cis-1,2-Dichloroethene	17000		500	230	ug/L	500		8260D	Total/NA
trans-1,2-Dichloroethene	910		25	13	ug/L	25		8260D	Total/NA
Trichloroethene	2300		500	220	ug/L	500		8260D	Total/NA
Vinyl chloride	350		25	11	ug/L	25		8260D	Total/NA

Client Sample ID: MW-120_051325

Lab Sample ID: 240-224507-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.77	J	1.0	0.46	ug/L	1		8260D	Total/NA
Trichloroethene	1.7		1.0	0.44	ug/L	1		8260D	Total/NA

Client Sample ID: MW-29_051325

Lab Sample ID: 240-224507-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	11		2.0	0.86	ug/L	1		8260D SIM	Total/NA

Client Sample ID: MW-19_051325

Lab Sample ID: 240-224507-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	100		2.0	0.86	ug/L	1		8260D SIM	Total/NA
cis-1,2-Dichloroethene	0.76	J	1.0	0.46	ug/L	1		8260D	Total/NA
Trichloroethene	0.52	J	1.0	0.44	ug/L	1		8260D	Total/NA
Vinyl chloride	0.94	J	1.0	0.45	ug/L	1		8260D	Total/NA

Client Sample ID: DUP-02

Lab Sample ID: 240-224507-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	55		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	920		25	11	ug/L	25		8260D	Total/NA

Client Sample ID: DUP-03

Lab Sample ID: 240-224507-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1600		33	15	ug/L	33.33		8260D	Total/NA
trans-1,2-Dichloroethene	1000		200	100	ug/L	200		8260D	Total/NA
Trichloroethene	2300		200	88	ug/L	200		8260D	Total/NA
Vinyl chloride	350		200	90	ug/L	200		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: 240-224507-1

Client Sample ID: TRIP BLANK_124

Lab Sample ID: 240-224507-1

Date Collected: 05/13/25 00:00

Matrix: Water

Date Received: 05/15/25 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			05/18/25 20:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/25 20:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 20:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/25 20:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 20:05	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/25 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137		05/18/25 20:05	1
4-Bromofluorobenzene (Surr)	88		56 - 136		05/18/25 20:05	1
Toluene-d8 (Surr)	98		78 - 122		05/18/25 20:05	1
Dibromofluoromethane (Surr)	103		73 - 120		05/18/25 20:05	1

Client Sample Results

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

Job ID: 240-224507-1

Client Sample ID: MW-22_051325

Lab Sample ID: 240-224507-2

Date Collected: 05/13/25 09:25

Matrix: Water

Date Received: 05/15/25 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	59		2.0	0.86	ug/L			05/17/25 17:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		68 - 127					05/17/25 17:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	20	U	20	9.8	ug/L			05/19/25 11:03	20
cis-1,2-Dichloroethene	20	U	20	9.2	ug/L			05/19/25 11:03	20
Tetrachloroethene	20	U	20	8.8	ug/L			05/19/25 11:03	20
trans-1,2-Dichloroethene	20	U	20	10	ug/L			05/19/25 11:03	20
Trichloroethene	20	U	20	8.8	ug/L			05/19/25 11:03	20
Vinyl chloride	890	F1	20	9.0	ug/L			05/19/25 11:03	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		62 - 137					05/19/25 11:03	20
4-Bromofluorobenzene (Surr)	89		56 - 136					05/19/25 11:03	20
Toluene-d8 (Surr)	99		78 - 122					05/19/25 11:03	20
Dibromofluoromethane (Surr)	102		73 - 120					05/19/25 11:03	20

Client Sample Results

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

Job ID: 240-224507-1

Client Sample ID: MW-23_051325

Lab Sample ID: 240-224507-3

Date Collected: 05/13/25 10:45

Matrix: Water

Date Received: 05/15/25 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			05/17/25 17:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	73		68 - 127					05/17/25 17:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	16	J	25	12	ug/L			05/18/25 20:50	25
cis-1,2-Dichloroethene	17000		500	230	ug/L			05/19/25 11:26	500
Tetrachloroethene	25	U	25	11	ug/L			05/18/25 20:50	25
trans-1,2-Dichloroethene	910		25	13	ug/L			05/18/25 20:50	25
Trichloroethene	2300		500	220	ug/L			05/19/25 11:26	500
Vinyl chloride	350		25	11	ug/L			05/18/25 20:50	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137					05/18/25 20:50	25
1,2-Dichloroethane-d4 (Surr)	118		62 - 137					05/19/25 11:26	500
4-Bromofluorobenzene (Surr)	85		56 - 136					05/18/25 20:50	25
4-Bromofluorobenzene (Surr)	91		56 - 136					05/19/25 11:26	500
Toluene-d8 (Surr)	98		78 - 122					05/18/25 20:50	25
Toluene-d8 (Surr)	102		78 - 122					05/19/25 11:26	500
Dibromofluoromethane (Surr)	103		73 - 120					05/18/25 20:50	25
Dibromofluoromethane (Surr)	109		73 - 120					05/19/25 11:26	500

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Client Sample Results

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

Job ID: 240-224507-1

Client Sample ID: MW-120_051325

Lab Sample ID: 240-224507-4

Date Collected: 05/13/25 12:15

Matrix: Water

Date Received: 05/15/25 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			05/17/25 18:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	75		68 - 127					05/17/25 18:17	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			05/18/25 21:13	1
cis-1,2-Dichloroethene	0.77	J	1.0	0.46	ug/L			05/18/25 21:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 21:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/25 21:13	1
Trichloroethene	1.7		1.0	0.44	ug/L			05/19/25 11:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/25 21:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137					05/18/25 21:13	1
1,2-Dichloroethane-d4 (Surr)	108		62 - 137					05/19/25 11:49	1
4-Bromofluorobenzene (Surr)	91		56 - 136					05/18/25 21:13	1
4-Bromofluorobenzene (Surr)	92		56 - 136					05/19/25 11:49	1
Toluene-d8 (Surr)	100		78 - 122					05/18/25 21:13	1
Toluene-d8 (Surr)	101		78 - 122					05/19/25 11:49	1
Dibromofluoromethane (Surr)	99		73 - 120					05/18/25 21:13	1
Dibromofluoromethane (Surr)	101		73 - 120					05/19/25 11:49	1

Client Sample Results

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

Job ID: 240-224507-1

Client Sample ID: MW-29_051325

Lab Sample ID: 240-224507-5

Date Collected: 05/13/25 13:15

Matrix: Water

Date Received: 05/15/25 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	11		2.0	0.86	ug/L			05/17/25 18:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		68 - 127					05/17/25 18:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/25 21:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/25 21:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 21:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/25 21:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 21:36	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/25 21:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		62 - 137					05/18/25 21:36	1
4-Bromofluorobenzene (Surr)	87		56 - 136					05/18/25 21:36	1
Toluene-d8 (Surr)	103		78 - 122					05/18/25 21:36	1
Dibromofluoromethane (Surr)	102		73 - 120					05/18/25 21:36	1

Client Sample Results

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

Job ID: 240-224507-1

Client Sample ID: MW-19_051325

Lab Sample ID: 240-224507-6

Date Collected: 05/13/25 14:25

Matrix: Water

Date Received: 05/15/25 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	100		2.0	0.86	ug/L			05/19/25 11:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		68 - 127					05/19/25 11:15	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			05/18/25 21:59	1
cis-1,2-Dichloroethene	0.76	J	1.0	0.46	ug/L			05/18/25 21:59	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 21:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/25 21:59	1
Trichloroethene	0.52	J	1.0	0.44	ug/L			05/18/25 21:59	1
Vinyl chloride	0.94	J	1.0	0.45	ug/L			05/18/25 21:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137					05/18/25 21:59	1
4-Bromofluorobenzene (Surr)	85		56 - 136					05/18/25 21:59	1
Toluene-d8 (Surr)	98		78 - 122					05/18/25 21:59	1
Dibromofluoromethane (Surr)	103		73 - 120					05/18/25 21:59	1

Client Sample Results

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

Job ID: 240-224507-1

Client Sample ID: DUP-02

Lab Sample ID: 240-224507-7

Date Collected: 05/13/25 00:00

Matrix: Water

Date Received: 05/15/25 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	55		2.0	0.86	ug/L			05/19/25 11:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		68 - 127					05/19/25 11:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	25	U	25	12	ug/L			05/19/25 12:12	25
cis-1,2-Dichloroethene	25	U	25	12	ug/L			05/19/25 12:12	25
Tetrachloroethene	25	U	25	11	ug/L			05/19/25 12:12	25
trans-1,2-Dichloroethene	25	U	25	13	ug/L			05/19/25 12:12	25
Trichloroethene	25	U	25	11	ug/L			05/19/25 12:12	25
Vinyl chloride	920		25	11	ug/L			05/19/25 12:12	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		62 - 137					05/19/25 12:12	25
4-Bromofluorobenzene (Surr)	89		56 - 136					05/19/25 12:12	25
Toluene-d8 (Surr)	97		78 - 122					05/19/25 12:12	25
Dibromofluoromethane (Surr)	104		73 - 120					05/19/25 12:12	25

Client Sample Results

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

Job ID: 240-224507-1

Client Sample ID: DUP-03

Lab Sample ID: 240-224507-8

Date Collected: 05/13/25 00:00

Matrix: Water

Date Received: 05/15/25 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			05/19/25 12:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	73		68 - 127					05/19/25 12:02	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			05/18/25 22:45	200
cis-1,2-Dichloroethene	1600		33	15	ug/L			05/19/25 12:35	33.33
Tetrachloroethene	200	U	200	88	ug/L			05/18/25 22:45	200
trans-1,2-Dichloroethene	1000		200	100	ug/L			05/18/25 22:45	200
Trichloroethene	2300		200	88	ug/L			05/18/25 22:45	200
Vinyl chloride	350		200	90	ug/L			05/18/25 22:45	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		62 - 137					05/18/25 22:45	200
1,2-Dichloroethane-d4 (Surr)	112		62 - 137					05/19/25 12:35	33.33
4-Bromofluorobenzene (Surr)	89		56 - 136					05/18/25 22:45	200
4-Bromofluorobenzene (Surr)	93		56 - 136					05/19/25 12:35	33.33
Toluene-d8 (Surr)	98		78 - 122					05/18/25 22:45	200
Toluene-d8 (Surr)	100		78 - 122					05/19/25 12:35	33.33
Dibromofluoromethane (Surr)	100		73 - 120					05/18/25 22:45	200
Dibromofluoromethane (Surr)	107		73 - 120					05/19/25 12:35	33.33

Surrogate Summary

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

Job ID: 240-224507-1

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)
240-224503-B-3 MS	Matrix Spike	107	93	98	103
240-224503-B-3 MSD	Matrix Spike Duplicate	110	92	98	102
240-224507-1	TRIP BLANK_124	106	88	98	103
240-224507-2	MW-22_051325	111	89	99	102
240-224507-2 MS	MW-22_051325	110	90	103	98
240-224507-2 MSD	MW-22_051325	105	95	100	102
240-224507-3	MW-23_051325	109	85	98	103
240-224507-3	MW-23_051325	118	91	102	109
240-224507-4	MW-120_051325	107	91	100	99
240-224507-4	MW-120_051325	108	92	101	101
240-224507-5	MW-29_051325	113	87	103	102
240-224507-6	MW-19_051325	105	85	98	103
240-224507-7	DUP-02	114	89	97	104
240-224507-8	DUP-03	116	89	98	100
240-224507-8	DUP-03	112	93	100	107
LCS 240-656448/4	Lab Control Sample	103	89	96	100
LCS 240-656490/4	Lab Control Sample	103	92	97	97
MB 240-656448/7	Method Blank	106	87	102	102
MB 240-656490/7	Method Blank	107	88	98	100

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)			
240-224503-E-3 MS	Matrix Spike	81			
240-224503-E-3 MSD	Matrix Spike Duplicate	81			
240-224507-2	MW-22_051325	78			
240-224507-3	MW-23_051325	73			
240-224507-4	MW-120_051325	75			
240-224507-5	MW-29_051325	79			
240-224507-6	MW-19_051325	82			
240-224507-7	DUP-02	79			
240-224507-8	DUP-03	73			
240-224507-8 MS	DUP-03	73			
240-224507-8 MSD	DUP-03	75			
LCS 240-656415/5	Lab Control Sample	80			
LCS 240-656497/5	Lab Control Sample	76			
MB 240-656415/7	Method Blank	79			
MB 240-656497/7	Method Blank	76			

Surrogate Legend

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

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QC Sample Results

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

Job ID: 240-224507-1

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

Lab Sample ID: MB 240-656448/7

Matrix: Water

Analysis Batch: 656448

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/25 13:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/25 13:34	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 13:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/25 13:34	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 13:34	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/25 13:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137		05/18/25 13:34	1
4-Bromofluorobenzene (Surr)	87		56 - 136		05/18/25 13:34	1
Toluene-d8 (Surr)	102		78 - 122		05/18/25 13:34	1
Dibromofluoromethane (Surr)	102		73 - 120		05/18/25 13:34	1

Lab Sample ID: LCS 240-656448/4

Matrix: Water

Analysis Batch: 656448

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	25.0	23.6		ug/L		95	63 - 134
cis-1,2-Dichloroethene	25.0	22.8		ug/L		91	77 - 123
Tetrachloroethene	25.0	25.5		ug/L		102	76 - 123
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	75 - 124
Trichloroethene	25.0	24.0		ug/L		96	70 - 122
Vinyl chloride	12.5	10.8		ug/L		86	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	89		56 - 136
Toluene-d8 (Surr)	96		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

Lab Sample ID: 240-224503-B-3 MS

Matrix: Water

Analysis Batch: 656448

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	1.0	U	25.0	21.0		ug/L		84	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	21.3		ug/L		85	66 - 128
Tetrachloroethene	1.0	U	25.0	22.6		ug/L		91	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	21.3		ug/L		85	56 - 136
Trichloroethene	1.0	U	25.0	21.8		ug/L		87	61 - 124
Vinyl chloride	1.0	U	12.5	8.98		ug/L		72	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		62 - 137
4-Bromofluorobenzene (Surr)	93		56 - 136
Toluene-d8 (Surr)	98		78 - 122

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QC Sample Results

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

Job ID: 240-224507-1

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

Lab Sample ID: 240-224503-B-3 MS

Matrix: Water

Analysis Batch: 656448

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	103		73 - 120

Lab Sample ID: 240-224503-B-3 MSD

Matrix: Water

Analysis Batch: 656448

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	1.0	U	25.0	24.2		ug/L		97	56 - 135	14	26
cis-1,2-Dichloroethene	1.0	U	25.0	23.3		ug/L		93	66 - 128	9	14
Tetrachloroethene	1.0	U	25.0	24.5		ug/L		98	62 - 131	8	20
trans-1,2-Dichloroethene	1.0	U	25.0	22.9		ug/L		92	56 - 136	7	15
Trichloroethene	1.0	U	25.0	22.5		ug/L		90	61 - 124	3	15
Vinyl chloride	1.0	U	12.5	10.7		ug/L		85	43 - 157	17	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		62 - 137
4-Bromofluorobenzene (Surr)	92		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

Lab Sample ID: MB 240-656490/7

Matrix: Water

Analysis Batch: 656490

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/19/25 10:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/19/25 10:40	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/19/25 10:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/19/25 10:40	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/19/25 10:40	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/19/25 10:40	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137		05/19/25 10:40	1
4-Bromofluorobenzene (Surr)	88		56 - 136		05/19/25 10:40	1
Toluene-d8 (Surr)	98		78 - 122		05/19/25 10:40	1
Dibromofluoromethane (Surr)	100		73 - 120		05/19/25 10:40	1

Lab Sample ID: LCS 240-656490/4

Matrix: Water

Analysis Batch: 656490

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	25.0	22.8		ug/L		91	63 - 134
cis-1,2-Dichloroethene	25.0	21.5		ug/L		86	77 - 123
Tetrachloroethene	25.0	24.6		ug/L		98	76 - 123
trans-1,2-Dichloroethene	25.0	21.3		ug/L		85	75 - 124
Trichloroethene	25.0	22.5		ug/L		90	70 - 122

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QC Sample Results

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

Job ID: 240-224507-1

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

Lab Sample ID: LCS 240-656490/4

Matrix: Water

Analysis Batch: 656490

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	12.5	10.0		ug/L		80	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	92		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: 240-224507-2 MS

Matrix: Water

Analysis Batch: 656490

Client Sample ID: MW-22_051325

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	20	U	500	355		ug/L		71	56 - 135
cis-1,2-Dichloroethene	20	U	500	407		ug/L		81	66 - 128
Tetrachloroethene	20	U	500	353		ug/L		71	62 - 131
trans-1,2-Dichloroethene	20	U	500	381		ug/L		76	56 - 136
Trichloroethene	20	U	500	384		ug/L		77	61 - 124
Vinyl chloride	890	F1	250	973	F1	ug/L		35	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		62 - 137
4-Bromofluorobenzene (Surr)	90		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

Lab Sample ID: 240-224507-2 MSD

Matrix: Water

Analysis Batch: 656490

Client Sample ID: MW-22_051325

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	20	U	500	431		ug/L		86	56 - 135	19	26
cis-1,2-Dichloroethene	20	U	500	453		ug/L		91	66 - 128	11	14
Tetrachloroethene	20	U	500	429		ug/L		86	62 - 131	19	20
trans-1,2-Dichloroethene	20	U	500	410		ug/L		82	56 - 136	7	15
Trichloroethene	20	U	500	425		ug/L		85	61 - 124	10	15
Vinyl chloride	890	F1	250	974	F1	ug/L		35	43 - 157	0	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		62 - 137
4-Bromofluorobenzene (Surr)	95		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

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QC Sample Results

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

Job ID: 240-224507-1

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

Lab Sample ID: MB 240-656415/7

Matrix: Water

Analysis Batch: 656415

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/17/25 10:51	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		68 - 127					05/17/25 10:51	1

Lab Sample ID: LCS 240-656415/5

Matrix: Water

Analysis Batch: 656415

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane			10.0	8.33		ug/L		83	75 - 121
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	80		68 - 127						

Lab Sample ID: 240-224503-E-3 MS

Matrix: Water

Analysis Batch: 656415

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.0	U	10.0	9.51		ug/L		95	20 - 180
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	81		68 - 127						

Lab Sample ID: 240-224503-E-3 MSD

Matrix: Water

Analysis Batch: 656415

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.0	U	10.0	9.78		ug/L		98	20 - 180	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	81		68 - 127								

Lab Sample ID: MB 240-656497/7

Matrix: Water

Analysis Batch: 656497

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/19/25 10:52	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		68 - 127					05/19/25 10:52	1

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QC Sample Results

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

Job ID: 240-224507-1

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

Lab Sample ID: LCS 240-656497/5

Matrix: Water

Analysis Batch: 656497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			10.0	9.18		ug/L		92	75 - 121		
Surrogate		LCS %Recovery	LCS Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)		76		68 - 127							

Lab Sample ID: 240-224507-8 MS

Matrix: Water

Analysis Batch: 656497

Client Sample ID: DUP-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane	2.0	U	10.0	9.77		ug/L		98	20 - 180		
Surrogate		MS %Recovery	MS Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)		73		68 - 127							

Lab Sample ID: 240-224507-8 MSD

Matrix: Water

Analysis Batch: 656497

Client Sample ID: DUP-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.0	U	10.0	10.5		ug/L		105	20 - 180	7	20
Surrogate		MSD %Recovery	MSD Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)		75		68 - 127							

QC Association Summary

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

Job ID: 240-224507-1

GC/MS VOA

Analysis Batch: 656415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224507-2	MW-22_051325	Total/NA	Water	8260D SIM	
240-224507-3	MW-23_051325	Total/NA	Water	8260D SIM	
240-224507-4	MW-120_051325	Total/NA	Water	8260D SIM	
240-224507-5	MW-29_051325	Total/NA	Water	8260D SIM	
MB 240-656415/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-656415/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-224503-E-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-224503-E-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 656448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224507-1	TRIP BLANK_124	Total/NA	Water	8260D	
240-224507-3	MW-23_051325	Total/NA	Water	8260D	
240-224507-4	MW-120_051325	Total/NA	Water	8260D	
240-224507-5	MW-29_051325	Total/NA	Water	8260D	
240-224507-6	MW-19_051325	Total/NA	Water	8260D	
240-224507-8	DUP-03	Total/NA	Water	8260D	
MB 240-656448/7	Method Blank	Total/NA	Water	8260D	
LCS 240-656448/4	Lab Control Sample	Total/NA	Water	8260D	
240-224503-B-3 MS	Matrix Spike	Total/NA	Water	8260D	
240-224503-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 656490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224507-2	MW-22_051325	Total/NA	Water	8260D	
240-224507-3	MW-23_051325	Total/NA	Water	8260D	
240-224507-4	MW-120_051325	Total/NA	Water	8260D	
240-224507-7	DUP-02	Total/NA	Water	8260D	
240-224507-8	DUP-03	Total/NA	Water	8260D	
MB 240-656490/7	Method Blank	Total/NA	Water	8260D	
LCS 240-656490/4	Lab Control Sample	Total/NA	Water	8260D	
240-224507-2 MS	MW-22_051325	Total/NA	Water	8260D	
240-224507-2 MSD	MW-22_051325	Total/NA	Water	8260D	

Analysis Batch: 656497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224507-6	MW-19_051325	Total/NA	Water	8260D SIM	
240-224507-7	DUP-02	Total/NA	Water	8260D SIM	
240-224507-8	DUP-03	Total/NA	Water	8260D SIM	
MB 240-656497/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-656497/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-224507-8 MS	DUP-03	Total/NA	Water	8260D SIM	
240-224507-8 MSD	DUP-03	Total/NA	Water	8260D SIM	

Lab Chronicle

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

Job ID: 240-224507-1

Client Sample ID: TRIP BLANK_124

Lab Sample ID: 240-224507-1

Date Collected: 05/13/25 00:00

Matrix: Water

Date Received: 05/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	656448	LEE	EET CLE	05/18/25 20:05

Client Sample ID: MW-22_051325

Lab Sample ID: 240-224507-2

Date Collected: 05/13/25 09:25

Matrix: Water

Date Received: 05/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		20	656490	LEE	EET CLE	05/19/25 11:03
Total/NA	Analysis	8260D SIM		1	656415	R5XG	EET CLE	05/17/25 17:30

Client Sample ID: MW-23_051325

Lab Sample ID: 240-224507-3

Date Collected: 05/13/25 10:45

Matrix: Water

Date Received: 05/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	656448	LEE	EET CLE	05/18/25 20:50
Total/NA	Analysis	8260D		500	656490	LEE	EET CLE	05/19/25 11:26
Total/NA	Analysis	8260D SIM		1	656415	R5XG	EET CLE	05/17/25 17:53

Client Sample ID: MW-120_051325

Lab Sample ID: 240-224507-4

Date Collected: 05/13/25 12:15

Matrix: Water

Date Received: 05/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	656448	LEE	EET CLE	05/18/25 21:13
Total/NA	Analysis	8260D		1	656490	LEE	EET CLE	05/19/25 11:49
Total/NA	Analysis	8260D SIM		1	656415	R5XG	EET CLE	05/17/25 18:17

Client Sample ID: MW-29_051325

Lab Sample ID: 240-224507-5

Date Collected: 05/13/25 13:15

Matrix: Water

Date Received: 05/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	656448	LEE	EET CLE	05/18/25 21:36
Total/NA	Analysis	8260D SIM		1	656415	R5XG	EET CLE	05/17/25 18:40

Client Sample ID: MW-19_051325

Lab Sample ID: 240-224507-6

Date Collected: 05/13/25 14:25

Matrix: Water

Date Received: 05/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	656448	LEE	EET CLE	05/18/25 21:59
Total/NA	Analysis	8260D SIM		1	656497	R5XG	EET CLE	05/19/25 11:15

Eurofins Cleveland

Lab Chronicle

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

Job ID: 240-224507-1

Client Sample ID: DUP-02
Date Collected: 05/13/25 00:00
Date Received: 05/15/25 08:00

Lab Sample ID: 240-224507-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	656490	LEE	EET CLE	05/19/25 12:12
Total/NA	Analysis	8260D SIM		1	656497	R5XG	EET CLE	05/19/25 11:39

Client Sample ID: DUP-03
Date Collected: 05/13/25 00:00
Date Received: 05/15/25 08:00

Lab Sample ID: 240-224507-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		200	656448	LEE	EET CLE	05/18/25 22:45
Total/NA	Analysis	8260D		33.33	656490	LEE	EET CLE	05/19/25 12:35
Total/NA	Analysis	8260D SIM		1	656497	R5XG	EET CLE	05/19/25 12:02

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: 240-224507-1

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
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-28-26
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-01-26
North Dakota	State	R-244	02-27-26
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
US Fish & Wildlife	US Federal Programs	A26406	02-28-26
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

TestAmerica Laboratory location: Farmington Hills --- 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

240-224507 COC

TestAmerica Laboratories, Inc.

Client Contact						Regulatory program:								Analysis Turnaround Time										Analyses										For lab use only									
Company Name: Arcadis						☐ DW ☐ NPDES ☐ RCRA ☐ Other								70-224507 COC										TestAmerica Laboratories, Inc.																			
Address: 28550 Cabot Drive, Suite 500						Client Project Manager: Megan Meekley								Site Contact: Samantha Szpaichler								Lab Contact: Mike DeMunnick										COC No:											
City/State/Zip: Novi, MI, 48377						Telephone: 248-994-2240								Telephone: 248-994-2240								Telephone: 330-497-9396										1 of 1 COCs											
Phone: 248-994-2240						Email: megan.meekley@arcadis.com																												Walk-in client									
Project Name: Ford LTP						Sampler Name: Maryam Hanani								TAT if different from below 10 day ☒ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day																												Lab sampling	
Project Number: 30251157.401.04						Method of Shipment/Carrier:																												Job/SDG No:									
PO # US3460023914						Shipping/Tracking No:																																					
Sample Identification						Sample Date		Sample Time		Matrix					Containers & Preservatives					Filtered Sample (Y/N)		Composite - C / Grab - G												Sample Specific Notes / Special Instructions:									
			Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc	NdOH	Unpres	Other:			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																			
TRIP BLANK_124						---	---											NG	X	X	X	X	X	X							1 Trip Blank												
MW-22_051325						5/13/25	0925											NG	X	X	X	X	X	X							3 VOAs for 8260D 3 VOAs for 8260D SIM												
MW-23_051325						5/13/25	1045											NG	X	X	X	X	X	X																			
MW-120_051325						5/13/25	1215											NG	X	X	X	X	X	X																			
MW-29_051325						5/13/25	1315											NG	X	X	X	X	X	X																			
MW-19_051325						5/13/25	1425											NG	X	X	X	X	X	X																			
DUP-02						5/13/25	--											NG	X	X	X	X	X	X																			
DUP-03						5/13/25	--											NG	X	X	X	X	X	X																			
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																					
☒ Non-Hazard ☐ Flammable ☐ Irritant ☐ Poison B ☐ Unknown						☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months																																					
Special Instructions/QC Requirements & Comments: Onsite																																											
Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728																																											
Level IV Reporting requested.																																											
Relinquished by: Maryam Hanani						Company: Arcadis						Date/Time: 5/13/25 1535						Received by: Nou Gold Storage						Company: Arcadis						Date/Time: 5/13/25 1535													
Relinquished by: Sam Fap						Company: Arcadis 1052						Date/Time: 5/14/25						Received by: Billy Mar						Company: EETA						Date/Time: 5/19/25													
Relinquished by: Billy Mar						Company: EETA						Date/Time: 5/14/25						Received by: Joe Sca						Company: EC						Date/Time: 5/15/25 0820													

Eurofins - Cleveland Sample Receipt Form/Narrative		Login # _____
Barberton Facility		
Client <u>Aceda's</u>	Site Name _____	Cooler, unpacked by: <u>MS</u>
Cooler Received on <u>5/15/20</u>	Opened on <u>5/15/20</u>	
Pallet: 1 st Ord Exp 1393 FAS <u>Waypoint</u> Client Drop Off Eurofins Courier Other _____		
Receipt After-hours: Drop-off Date/Time _____		Storage Location _____
Eurofins Cooler # <u>E</u>	Foam Box _____	Client Cooler _____
Packing material used: <u>Bubble Wrap</u>	<u>Foam</u>	Plastic Bag _____
COOLANT: <u>Wet Ice</u>	Blue Ice _____	Dry Ice _____
	Water _____	None _____
1. Cooler temperature upon receipt _____ °C ☒ See Multiple Cooler Form		
IR GUN # _____	(CF _____ °C)	Observed Cooler Temp. _____ °C
		Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u> -Were the seals on the outside of the cooler(s) signed & dated? <u>Yes</u> No <u>NA</u> -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? <u>Yes</u> No <u>NA</u> -Were tamper/custody seals intact and uncompromised? <u>Yes</u> No <u>NA</u>		
3. Shippers' packing slip attached to the cooler(s)? <u>Yes</u> No <u>NA</u> 4. Did custody papers accompany the sample(s)? <u>Yes</u> No <u>NA</u> 5. Were the custody papers relinquished & signed in the appropriate place? <u>Yes</u> No <u>NA</u> 6. Was/were the person(s) who collected the samples clearly identified on the COC? <u>Yes</u> No <u>NA</u> 7. Did all bottles arrive in good condition (Unbroken)? <u>Yes</u> No <u>NA</u> 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? <u>Yes</u> No <u>NA</u> 9. For each sample, does the COC specify preservatives (<u>Y/N</u>), # of containers (<u>Y/N</u>), and sample type of grab/comp (<u>Y/N</u>)? <u>Yes</u> No <u>NA</u> 10. Were correct bottle(s) used for the test(s) indicated? <u>Yes</u> No <u>NA</u> 11. Sufficient quantity received to perform indicated analyses? <u>Yes</u> No <u>NA</u> 12. Are these work share samples and all listed on the COC? <u>Yes</u> No <u>NA</u> If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt? <u>Yes</u> No <u>NA</u> pH Strip Lot# HC457151 14. Were VOAs on the COC? <u>Yes</u> No <u>NA</u> 15. Were air bubbles > 6 mm in any VOA vials? <u>Yes</u> No <u>NA</u> Larger than this. <u>NA</u> 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # <u>NA</u> <u>Yes</u> No <u>NA</u> 17. Was a LL Hg or Me Hg trip blank present? <u>Yes</u> No <u>NA</u>		
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____ Concerning _____		
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page Labeled by: _____ Labels Verified 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) _____ were further preserved in the laboratory. Time preserved: _____ Preservative(s) added/Lot number(s): _____ VOA Sample Preservation - Date/Time VOAs Frozen: _____		

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

WI-NC-099 Cooler Receipt Form Page 2 -- Multiple Coolers

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservation Temp	Preservation Added	Preservation Lot Number
TRIP BLANK_124	240-224507-A-1	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-22_051325	240-224507-A-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-22_051325	240-224507-B-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-22_051325	240-224507-C-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-22_051325	240-224507-D-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-22_051325	240-224507-E-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-22_051325	240-224507-G-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-23_051325	240-224507-A-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-23_051325	240-224507-B-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-23_051325	240-224507-C-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-23_051325	240-224507-D-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-23_051325	240-224507-E-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-23_051325	240-224507-F-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-120_051325	240-224507-A-4	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-120_051325	240-224507-B-4	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-120_051325	240-224507-C-4	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-120_051325	240-224507-D-4	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-120_051325	240-224507-E-4	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-120_051325	240-224507-F-4	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-29_051325	240-224507-A-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-29_051325	240-224507-B-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-29_051325	240-224507-C-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-29_051325	240-224507-D-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-29_051325	240-224507-E-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-29_051325	240-224507-F-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-19_051325	240-224507-A-6	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-19_051325	240-224507-B-6	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-19_051325	240-224507-C-6	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-19_051325	240-224507-D-6	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-19_051325	240-224507-E-6	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-19_051325	240-224507-F-6	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-02	240-224507-A-7	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-02	240-224507-B-7	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-02	240-224507-C-7	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-02	240-224507-D-7	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____

Client Sample ID	Lab ID	Container Type	Container			Preservation	Preservation
			pH	Temp	Added		Lot Number
DUP-02	240-224507-E-7	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____	_____
DUP-02	240-224507-F-7	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____	_____
DUP-03	240-224507-A-8	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____	_____
DUP-03	240-224507-B-8	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____	_____
DUP-03	240-224507-C-8	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____	_____
DUP-03	240-224507-D-8	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____	_____
DUP-03	240-224507-E-8	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____	_____
DUP-03	240-224507-F-8	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____	_____

DATA VERIFICATION REPORT



May 21, 2025

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

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - ON-SITE Soil Gas, Ground Water and Soil

Project number: 30251157.401.04 (vapor 301.04)

Event Specific Scope of Work References: Sample COC

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 224507-1

Sample date: 2025-05-13

Report received by CADENA: 2025-05-21

Initial Data Verification completed by CADENA: 2025-05-21

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.

The following minor QC exceptions or missing information were noted:

MSD - GCMS VOC sample -002 MS and MSD recovery outliers were outliers with the recovery biased low for the following analyte: VINYL CHLORIDE. Client sample results for these analytes should be considered to be estimated and qualified with a J flag if detected.

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.

Qualified Results Summary

CADENA Project ID: E203728
Laboratory: Eurofins Environment Testing LLC - Cleveland
Laboratory Submittal: 224507-1

Sample Name: MW-22_051325
Lab Sample ID: 2402245072
Sample Date: 5/13/2025

		Report		Valid	
Analyte	Cas No.	Result	Limit	Units	Qualifier
GC/MS VOC					
<u>OSW-8260D</u>					
Vinyl chloride	75-01-4	890	20	ug/l	J

Analytical Results Summary

CADENA Project ID: E203728
Laboratory: Eurofins Environment Testing LLC - Cleveland
Laboratory Submittal: 224507-1

Sample Name:		TRIP BLANK_124				MW-22_051325				MW-23_051325				MW-120_051325				MW-29_051325				MW-19_051325				DUP-02				DUP-03			
Lab Sample ID:		2402245071				2402245072				2402245073				2402245074				2402245075				2402245076				2402245077				2402245078			
Sample Date:		5/13/2025				5/13/2025				5/13/2025				5/13/2025				5/13/2025				5/13/2025				5/13/2025				5/13/2025			
Analyte	Cas No.	Report			Valid	Report			Valid	Report			Valid	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	Result	Limit	Units	Qualifier
GC/MS VOC																																	
OSW-8260D																																	
1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	20	ug/l	---	16	25	ug/l	J	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	25	ug/l	---	ND	200	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	ND	20	ug/l	---	17000	500	ug/l	---	0.77	1.0	ug/l	J	ND	1.0	ug/l	---	0.76	1.0	ug/l	J	ND	25	ug/l	---	1600	33	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	20	ug/l	---	ND	25	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	25	ug/l	---	ND	200	ug/l	---
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	ND	20	ug/l	---	910	25	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	25	ug/l	---	1000	200	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	20	ug/l	---	2300	500	ug/l	---	1.7	1.0	ug/l	---	ND	1.0	ug/l	---	0.52	1.0	ug/l	J	ND	25	ug/l	---	2300	200	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	890	20	ug/l	J	350	25	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	0.94	1.0	ug/l	J	920	25	ug/l	---	350	200	ug/l	---
OSW-8260DSIM																																	
1,4-Dioxane	123-91-1					59	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---	11	2.0	ug/l	---	100	2.0	ug/l	---	55	2.0	ug/l	---	ND	2.0	ug/l	---