PREPARED FOR

Attn: Ms. Megan Meckley Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 8/15/2024 8:21:04 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-208884-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

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Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: Arcadis U.S., Inc. Project/Site: Ford LTP

Laboratory Job ID: 240-208884-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.

Job ID: 240-208884-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

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

2

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7

10

4.0

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| 1 4

Case Narrative

Client: Arcadis U.S., Inc. Project: Ford LTP

Job ID: 240-208884-1 Eurofins Cleveland

Job Narrative 240-208884-1

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 8/6/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.2°C and 4.3°C.

GC/MS VOA

Method 8260D: The following samples were diluted due to the nature of the sample matrix: (240-208890-E-3 MS) and (240-208890-F-3 MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8260D: 8260 method indicates the start of the 12 hour window is based off of when the first standard is ran.

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

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Job ID: 240-208884-1

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Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208884-1

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

Eurofins Cleveland

Sample Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208884-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-208884-1	TRIP BLANK_89	Water	08/02/24 00:00	08/06/24 08:00
240-208884-2	MW-144S 080224	Water	08/02/24 16:00	08/06/24 08:00

G

Detection Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208884-1

Client Sample ID: TRIP BLANK_89

Lab Sample ID: 240-208884-1

No Detections.

Client Sample ID: MW-144S_080224 Lab Sample ID: 240-208884-2

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208884-1

Project/Site: Ford LTP

Date Received: 08/06/24 08:00

Client Sample ID: TRIP BLANK_89

Lab Sample ID: 240-208884-1 Date Collected: 08/02/24 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/09/24 17:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/09/24 17:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/09/24 17:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/09/24 17:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/09/24 17:12	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/09/24 17:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			•		08/09/24 17:12	1
4-Bromofluorobenzene (Surr)	88		56 ₋ 136					08/09/24 17:12	1
Toluene-d8 (Surr)	98		78 - 122					08/09/24 17:12	1
Dibromofluoromethane (Surr)	106		73 - 120					08/09/24 17:12	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208884-1

Project/Site: Ford LTP

Date Received: 08/06/24 08:00

Dibromofluoromethane (Surr)

Client Sample ID: MW-144S_080224

Lab Sample ID: 240-208884-2 Date Collected: 08/02/24 16:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/08/24 12:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 127			-		08/08/24 12:52	1
- Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	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			08/14/24 00:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/14/24 00:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/14/24 00:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/14/24 00:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/14/24 00:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/14/24 00:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			-		08/14/24 00:17	1
4-Bromofluorobenzene (Surr)	80		56 ₋ 136					08/14/24 00:17	1
Toluene-d8 (Surr)	86		78 - 122					08/14/24 00:17	1

73 - 120

08/14/24 00:17

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-208884-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rrogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-208884-1	TRIP BLANK_89	117	88	98	106
240-208884-2	MW-144S_080224	107	80	86	95
240-208964-B-2 MSD	Matrix Spike Duplicate	97	116	106	103
240-208964-C-2 MS	Matrix Spike	92	100	93	94
LCS 240-622871/5	Lab Control Sample	105	112	103	112
LCS 240-623243/5	Lab Control Sample	90	104	95	96
MB 240-622871/9	Method Blank	108	89	95	100
MB 240-623243/9	Method Blank	101	81	86	90

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

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-208882-E-2 MS	Matrix Spike	112	
240-208882-E-2 MSD	Matrix Spike Duplicate	111	
240-208884-2	MW-144S_080224	104	
LCS 240-622735/4	Lab Control Sample	102	
MB 240-622735/6	Method Blank	106	

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

Job ID: 240-208884-1

Client: Arcadis U.S., Inc. Project/Site: Ford LTP

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

Lab Sample ID: MB 240-622871/9

Matrix: Water

Analysis Batch: 622871

Client Sample ID: Method Bla	ınk
Prep Type: Total/	NΔ

MB MB Dil Fac Analyte Result Qualifier RLMDL Unit Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 08/09/24 16:22 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 08/09/24 16:22 1.0 U 1.0 0.44 ug/L 08/09/24 16:22 Tetrachloroethene trans-1,2-Dichloroethene 08/09/24 16:22 1.0 U 1.0 0.51 ug/L Trichloroethene 1.0 U 1.0 0.44 ug/L 08/09/24 16:22 Vinyl chloride 1.0 U 1.0 0.45 ug/L 08/09/24 16:22

MB MB

Surrogate	%Recovery	Qualifier Li	mits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108	62	<u>- 137</u>		08/09/24 16:22	1
4-Bromofluorobenzene (Surr)	89	56	1 - 136		08/09/24 16:22	1
Toluene-d8 (Surr)	95	78	1 - 122		08/09/24 16:22	1
Dibromofluoromethane (Surr)	100	73	1 - 120		08/09/24 16:22	1

Lab Sample ID: LCS 240-622871/5

Matrix: Water

Analysis Batch: 622871

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	23.1		ug/L		92	63 - 134	
cis-1,2-Dichloroethene	25.0	24.9		ug/L		99	77 - 123	
Tetrachloroethene	25.0	23.0		ug/L		92	76 - 123	
trans-1,2-Dichloroethene	25.0	23.7		ug/L		95	75 - 124	
Trichloroethene	25.0	25.7		ug/L		103	70 - 122	
Vinyl chloride	12.5	15.5		ug/L		124	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		62 - 137
4-Bromofluorobenzene (Surr)	112		56 ₋ 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	112		73 - 120

Lab Sample ID: MB 240-623243/9

Matrix: Water

Analysis Batch: 623243

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/13/24 16:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/13/24 16:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/13/24 16:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/13/24 16:46	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/13/24 16:46	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/13/24 16:46	1

	MB MB				
Surrogate	%Recovery Quality	fier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101	62 - 137		08/13/24 16:46	1
4-Bromofluorobenzene (Surr)	81	56 - 136		08/13/24 16:46	1
Toluene de (Surr)	86	79 122		08/13/24 16:46	1

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Job ID: 240-208884-1

Client: Arcadis U.S., Inc. Project/Site: Ford LTP

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

Lab Sample ID: MB 240-623243/9

Matrix: Water

Analysis Batch: 623243

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB

Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed Dibromofluoromethane (Surr) 90 73 - 120 08/13/24 16:46

Lab Sample ID: LCS 240-623243/5

Matrix: Water

Analysis Batch: 623243

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

%Rec %Rec Limits

LCS LCS Spike Analyte Added Result Qualifier Unit 1,1-Dichloroethene 25.0 22.8 ug/L 91 63 - 134 cis-1,2-Dichloroethene 25.0 97 77 - 123 24 1 ug/L Tetrachloroethene 25.0 25.7 ug/L 103 76 - 123 trans-1,2-Dichloroethene ug/L 25.0 24.1 96 75 - 124 Trichloroethene 25.0 23.3 ug/L 93 70 - 122 Vinyl chloride 12.5 12.2 ug/L 60 - 144

LCS LCS %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 90 62 - 137 104 4-Bromofluorobenzene (Surr) 56 - 136 Toluene-d8 (Surr) 95 78 - 122 Dibromofluoromethane (Surr) 96 73 - 120

Lab Sample ID: 240-208964-B-2 MSD

Matrix: Water

Analysis Batch: 623243

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

MSD MSD RPD Sample Sample Spike %Rec Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit 1.0 U 84 1,1-Dichloroethene 25.0 21.0 56 - 135 26 ug/L 0 cis-1,2-Dichloroethene 1.0 U 25.0 23.3 ug/L 93 66 - 128 14 Tetrachloroethene 1.0 U 25.0 21.1 84 62 - 131 20 ug/L 2 trans-1,2-Dichloroethene 1.0 U 25.0 22.6 ug/L 90 56 - 136 0 15 1.0 U 25.0 21.0 84 15 Trichloroethene ug/L 61 - 124 6 Vinyl chloride 1.0 U 12.5 11.0 ug/L 88 43 - 157 24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	116		56 - 136
Toluene-d8 (Surr)	106		78 - 122
Dibromofluoromethane (Surr)	103		73 - 120

Lab Sample ID: 240-208964-C-2 MS

Matrix: Water

Analysis Batch: 623243

Client Sample ID: Matrix Spike

•	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	25.0	20.9		ug/L		83	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	23.8		ug/L		95	66 - 128
Tetrachloroethene	1.0	U	25.0	20.6		ug/L		82	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	22.6		ug/L		91	56 - 136
Trichloroethene	1.0	U	25.0	19.8		ug/L		79	61 - 124

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Prep Type: Total/NA

Client: Arcadis U.S., Inc. Project/Site: Ford LTP

Job ID: 240-208884-1

08/08/24 11:41

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

Lab Sample ID: 240-208964-C-2 MS Client Sample ID: Matrix Spike **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 623243									
,	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Vinyl chloride	1.0	U	12.5	10.7		ug/L		86	43 - 157
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	92		62 - 137						
4-Bromofluorobenzene (Surr)	100		56 ₋ 136						
Toluene-d8 (Surr)	93		78 - 122						
Dibromofluoromethane (Surr)	94		73 - 120						

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

Lab Sample ID: MB 240-622735/6 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 622735

MB MB

106

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/08/24 11:41	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

68 - 127

Lab Sample ID: LCS 240-622735/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 622735

1,2-Dichloroethane-d4 (Surr)

	Spike		CS			%Rec	
Analyte	Added	Result Q	ualifier Unit	D	%Rec	Limits	
1,4-Dioxane	10.0	8.50	ug/L		85	75 - 121	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 102 68 - 127

Lab Sample ID: 240-208882-E-2 MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Water

Analysis Batch: 622735

,	Sample Sample	Spike	MS	MS				%Rec
Analyte	Result Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane	2.0 U	10.0	9.28		ug/L		93	20 - 180

MS MS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 112

Lab Sample ID: 240-208882-E-2 MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Analysis Batch: 622735

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	9.59		ug/L		96	20 - 180	3	20

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Prep Type: Total/NA

QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208884-1 Project/Site: Ford LTP

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

Lab Sample ID: 240-208882-E-2 MSD

Matrix: Water

Analysis Batch: 622735

MSD MSD

Surrogate	%Recovery Q	ualifier	Limits
1.2-Dichloroethane-d4 (Surr)	111		68 - 127

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208884-1

GC/MS VOA

Analysis Batch: 622735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208884-2	MW-144S_080224	Total/NA	Water	8260D SIM	
MB 240-622735/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-622735/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-208882-E-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-208882-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 622871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208884-1	TRIP BLANK_89	Total/NA	Water	8260D	
MB 240-622871/9	Method Blank	Total/NA	Water	8260D	
LCS 240-622871/5	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 623243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208884-2	MW-144S_080224	Total/NA	Water	8260D	
MB 240-623243/9	Method Blank	Total/NA	Water	8260D	
LCS 240-623243/5	Lab Control Sample	Total/NA	Water	8260D	
240-208964-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-208964-C-2 MS	Matrix Spike	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-208884-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_89

Lab Sample ID: 240-208884-1 Date Collected: 08/02/24 00:00

Matrix: Water

Date Received: 08/06/24 08:00 Dilution Batch Batch Batch

Prepared Method Prep Type Туре Run Factor **Number Analyst** Lab or Analyzed Total/NA 8260D 622871 MS EET CLE 08/09/24 17:12 Analysis

Client Sample ID: MW-144S_080224 Lab Sample ID: 240-208884-2

Date Collected: 08/02/24 16:00 **Matrix: Water**

Date Received: 08/06/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	623243	MS	EET CLE	08/14/24 00:17
Total/NA	Analysis	8260D SIM		1	622735	MS	EET CLE	08/08/24 12:52

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208884-1

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
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
lowa	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 Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-28-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

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Chain of Custody Record

MICHIGAN 190

<u>TestAmerica</u>

Client Contact	America Labora	tory program:			DW		- NP			⊢ R		_		Other		_						•				
Company Name: Arcadis	- Regular	tory program.			011			DLS			CiO			Other	. 1											TestAmerica Laboratories, In
	Client Project	Manager: Kris	Hinsl	œу	•	Si	te Co	ntact:	Chris	stina \	Veav	er				Lab (ontac	t: Mil	æ Del	Monic	0					COC No:
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240	_			T	elepho	ne: 24	18-99-	4-2240)			_	-	Telep	hone:	330-4	97-93	96					_	
City/State/Zip: Novi, MI, 48377	Email: kristoff	er.hinskey@ar	andie	40 m			Ana	lysis	Turns	troup	Tim	e I		Т					A	naly	ses			_		1 of 1 COCs For lab use only
Phone: 248-994-2240	7																			Ľ						
Project Name: Ford LTP	Sampler Name	Alle	M	08	+	T.	AT 11 di	ificrent i		dow 3 weel 2 weel		\dashv														Walk-in client Lab sampling
Project Number: 30206169.0401.03		ment/Carrier:	<i>,</i> (\dashv	10 0	ay		l week	c		9	ي			0				SIM					Cao sampung
PO # US3410018772	Shipping/Track	king No:								2 days 1 day		İ	Sample (Y / N)	/Grab-	OC	3260D	E 82601			8260D	3260D S					Job/SDG No
	1			V	atrix		Co	ntaine	rs & P	reserv	atives		Sam	<u>=</u>	8260	CE 8	2-DC	9	QO	loride	ane 8					
Sample Identification	Sumple Date	Sample Time	Air	Aqueous	Solid Other:	100	HN03	HCI	NaOH	ZnAci	Inpres Other:	- 1	Filtered	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					Sample Specific Notes / Special Instructions:
	Sample Bate	Sample time			, , ,, ,		=			2 2 .	=	=		-		_								-	_	
TRIP BLANK_ 79				1				1					N	G	Χ	X	X	X	X	X		_				1 Trip Blank
MW-1448_080224	08/02/24	16:00		٦				6				_	N	6	×	×	×	٧	X	×	×					3 VOAs for 8260D 3 VOAs for 8260D SIM
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																		اِ		2088	 84 C	hain	of C	ustod	ll IIII iy	1/6/1/1 2/41/1041
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Possible Hazard Identification Non-Hazard Tammable Tin Irritan	t Poise	on B	Jnk	nown				ple Dis Retu				y be as Di		ed if s al By		es are		ned lo rchive		han 1) onths				
Special Instructions/QC Requirements & Comments:	.033	Stary	K																							
Submit all results through Cadena at jtomalia@cadenaco. Level IV Reporting requested.	com. Cadena #6	203728																								
Relinquished by Ulla Maddit	Company:	dis		Date/I	ime:	Y i	7:0	40	Rece	Vod b	y: (أه	d	2	Ю.	rai	عور	,	Com	Zh	- 00	idi	5			Date/Time: 05/02/24 17-40
Relinquished by:	Company	cadis		Date/	ime: 5/2		03	Q	Rece	ivedb		7	<u> </u>	1	2		2		Comp	pany:	ΤA	idi				Date/Time: 1 8/5724 10:31
Relinquished by Jewished	Company:	A		Date/1	ime 724	10	٠ 3٥	5	Rece	ived i	n Lab	orator	y by:				2		Com	рапу:	5	\overline{c}				Data/Time: 9/0

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VOA Sample Preservation - Date/Time VOAs Frozen
Sample(s) were further preserved in the laboratory Time preserved Preservative(s) added/Lot number(s)
20. SAMPLE PRESERVATION
19. SAMPLE CONDITION were received after the recommended holding time had expired. Sample(s) were received after the recommended holding time had expired. were received in a broken container Sample(s) were received with bubble >6 mm in diameter (Notify PM)
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Concerning
Contacted PM Date by via Verbal Voice Mail Other
13 Were all preserved sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# HC442471 Yes No Yes No 15 Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes No Yes No Yes No
11 Sufficient quantity received to perform indicated analyses? 12 Are these work share samples and all listed on the COC? 13 If yes, Onestions 13-17 have been checked at the originating laboratory
Could all bottle labels (ID/Date/Time) be reconciled with the COC? For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), ar Were correct bottle(s) used for the test(s) indicated?
Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)?
gMeHg)? Yes Yo No
Van No NA
IR GUN # 32 (CF - O. / °C) Observed Cooler
COOLANT: Wet Ice Blue Ice Dry Ice Water None Cooler temperature upon receipt 1 Cooler temperature upon receipt
ox Client Cooler Box
Receipt After-hours Drop-off Date/Time Receipt After-hours Drop-off Date/Time Storage Location
Opened on 8-6-74
Accadis
Barberton Facility Control of the Co

Page 20 of 22

8/15/2024

Wetice Blueice Dryl	Attenta		IR GUN #:	Other	nt Box	: Cllent	33
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Wet ice blue ice Dr Water None	magnata, del material del del del material del del del del del del del del del de		IR GUN #:	Other	ent Box	Cllent	23
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Wet Ice Bive Ice Dr Water None	1.2	· 公	IR GUN #: 3	Other	nt Box	2	(g)
	Corrected Temp °C	Observed Temp °C	IR Gun # (Circle)	iption	Cooler Description (Circle)	Soolei	
	Euroinis - Cievelano Sample Receipt Multiple Cooler Form	o Sample Kecelpt Mi	Line Asio - Cilifolina		17.2		WWW

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

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Login Container Summary Report

					8
<u>Lab ID</u>	Container Type	Container pH Temp	Preservation Added	n Preservation Lot Number	
240-208884-A-1	Voa Vial 40ml - Hydrochloric Acıd	the same and the s			1
240-208884-A-2	Voa Vial 40ml - Hydrochloric Acid				1
240-208884-B-2	Voa Vial 40ml - Hydrochloric Acid	Atthitish meneron			í
240-208884-C-2	Voa Vial 40ml - Hydrochloric Acid				1
240-208884-D-2	Voa Vial 40ml - Hydrochloric Acid		- destribution of the communication of the contraction of the contract	-t-timenenint-t-timenenint-t-terenenint-t-timenenint-t-t-t-t-t-t-t-t-t-t-t-t-t-t-t-t-t-t	1
240-208884-E-2	Voa Vial 40ml - Hydrochloric Acid				ı
240-208884-F-2	Voa Vial 40ml - Hydrochloric Acıd				ı
	Lab ID 240-208884-A-1 240-208884-A-2 240-208884-B-2 240-208884-C-2 240-208884-D-2 240-208884-E-2 240-208884-F-2		Container Type Voa Vial 40ml - Hydrochloric Acid	Container Type Voa Vial 40ml - Hydrochloric Acid	Container Type Voa Vial 40ml - Hydrochloric Acid

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DATA VERIFICATION REPORT



August 15, 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-02

Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 208884-1 Sample date: 2024-08-02

Report received by CADENA: 2024-08-15

Initial Data Verification completed by CADENA: 2024-08-15

Number of Samples:2 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, 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.

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 Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
В	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 contaminates) 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.
Е	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 contaminates) 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: 208884-1

		Sample Name:	TRIP BL	ANK_89			MW-144	4S_0802	24	
		Lab Sample ID:	240208	8841			240208	8842		
		Sample Date:	8/2/202	4			8/2/202	24		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>50D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-826	60DSIM									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-208884-1

CADENA Verification Report: 2024-08-15

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 55488R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-208884-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Parent Sample	Ana	lysis
Sample ID	Labib	IVIALITA	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_89	240-208884-1	Water	08/02/2024		X	
MW-144S_080224	240-208884-2	Water	08/02/2024		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Rep	orted		mance otable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
Requested analyses and sample results		X		Х	
Master tracking list		X		Х	
4. Methods of analysis		X		Х	
5. Reporting limits		X		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable, and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation			'	'	
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Bindu Sree M B

SIGNATURE: BAShims

DATE: September 02, 2024

PEER REVIEW: Andrew Korycinski

DATE: September 7, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

MICHIGAN 190



TestAmerica Laboratory location: Brighton — 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 Client Contact DW - NPDES □ RCRA Other Regulatory program: Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 COCs 1 of 1 City/State/Zip: Novi, MI, 48377 Analyses Analysis Turnaround Time For lab use only Email: kristoffer.hinskey@arcadis.com Phone: 248-994-2240 Walk-in client FAT if different from below Project Name: Ford LTP 3 weeks ₹ 2 weeks Lab sampling Project Number: 30206169,0401,03 1 week Method of Shipment/Carrier: ,4-Dioxane 8260D SIM 8260D 2 days /inyl Chloride 8260D PO # US3410018772 Shipping/Tracking No: □ 1 day Job/SDG No: 1,1-DCE 8260D Frans-1,2-DCE Matrix Containers & Preservatives PCE 8260D CE 8260D Sample Specific Notes / H2S04 HNO3 NaOH Special Instructions: Ę Sample Date | Sample Time Sample Identification TRIP BLANK_ 79 NG X Х Χ Χ Х 1 Trip Blank 3 VOAs for 8260D 6 6 MW-1448_080224 08/02/24 13:00 X X $\times \times$ 3 VOAs for 8260D SIM Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) in Irritant Poison B ☐ Jnknown Disposal By Lab Archive For I Special Instructions/QC Requirements & Comments: Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728 Level IV Reporting requested. Arcadis Relinguished by ifredis Relinquished by Hycadis Company: 815724 10:35 Q2008, TestAmerica Laboratories, Inc. All rights reserved. TestAmerica & Design ** are trademarks of TestAmerica Laboratories, Inc.

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208884-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_89

Lab Sample ID: 240-208884-1 Date Collected: 08/02/24 00:00 **Matrix: Water**

Date Received: 08/06/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/09/24 17:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/09/24 17:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/09/24 17:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/09/24 17:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/09/24 17:12	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/09/24 17:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		62 - 137			-		08/09/24 17:12	1
4-Bromofluorobenzene (Surr)	88		56 ₋ 136					08/09/24 17:12	1
Toluene-d8 (Surr)	98		78 - 122					08/09/24 17:12	1
Dibromofluoromethane (Surr)	106		73 - 120					08/09/24 17:12	1

Client Sample ID: MW-144S_080224

Date Collected: 08/02/24 16:00

Date Received: 08/06/24 08:00

Dibromofluoromethane (Surr)

Method: SW846 8260D SIM - V	/olatile Organic C	ompounds	(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			08/08/24 12:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 127			_		08/08/24 12:52	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 127			-		08/08/24 12:52	1
	ile Organic Comp	ounds by G	SC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/14/24 00:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/14/24 00:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/14/24 00:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/14/24 00:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/14/24 00:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/14/24 00:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			-		08/14/24 00:17	1
4-Bromofluorobenzene (Surr)	80		56 ₋ 136					08/14/24 00:17	1
Toluene-d8 (Surr)	86		78 - 122					08/14/24 00:17	1

73 - 120

08/14/24 00:17

Lab Sample ID: 240-208884-2

Matrix: Water