ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/15/2024 8:27:08 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-208886-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



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Job Notes

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Authorization

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

Laboratory Job ID: 240-208886-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-208886-1

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

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Case Narrative

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

Job ID: 240-208886-1 Eurofins Cleveland

Job Narrative 240-208886-1

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: 240-208886-1

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Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208886-1

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208886-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-208886-1	TRIP BLANK_131	Water	08/02/24 00:00	08/06/24 08:00
240-208886-2	MW-96S_080224	Water	08/02/24 15:00	08/06/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208886-1

Client Sample ID: TRIP BLANK_131

Lab Sample ID: 240-208886-1

No Detections.

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208886-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_131

Lab Sample ID: 240-208886-1 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 18:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/09/24 18:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/09/24 18:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/09/24 18:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/09/24 18:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/09/24 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		08/09/24 18:27	1
4-Bromofluorobenzene (Surr)	85		56 ₋ 136					08/09/24 18:27	1
Toluene-d8 (Surr)	95		78 - 122					08/09/24 18:27	1
Dibromofluoromethane (Surr)	105		73 - 120					08/09/24 18:27	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208886-1

Project/Site: Ford LTP

Client Sample ID: MW-96S_080224

Date Collected: 08/02/24 15:00

Lab Sample ID: 240-208886-2 Matrix: Water

Date	Received:	08/06/24	08:00

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 13:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			68 - 127			_		08/08/24 13:39	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127			_		08/08/24 13:39	1
- Method: SW846 8260D - Volat	tile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/13/24 19:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/13/24 19:41	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/13/24 19:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/13/24 19:41	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/13/24 19:41	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/13/24 19:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			_		08/13/24 19:41	1

viriyi cilionde	1.0 0	1.0	0.43 ug/L		00/13/24 19.41	
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113	62 - 137			08/13/24 19:41	1
4-Bromofluorobenzene (Surr)	84	56 ₋ 136			08/13/24 19:41	1
Toluene-d8 (Surr)	95	78 - 122			08/13/24 19:41	1
Dibromofluoromethane (Surr)	104	73 - 120			08/13/24 19:41	1

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-208886-1 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)
240-208886-1	TRIP BLANK_131	113	85	95	105
240-208886-2	MW-96S_080224	113	84	95	104
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	
240-208886-2	MW-96S_080224	106	
LCS 240-622735/4	Lab Control Sample	102	
MB 240-622735/6	Method Blank	106	

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

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Client: Arcadis U.S., Inc. Job ID: 240-208886-1

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 Samp	le ID: Method Blank
	Prep Type: Total/NA

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

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

Jiient	Samp	ie 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

Surrogate	%Recovery	Qualifier	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-d8 (Surr)	86		78 - 122		08/13/24 16:46	1

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Client: Arcadis U.S., Inc. Job ID: 240-208886-1

Project/Site: Ford LTP

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

Matrix: Water

Analysis Batch: 623243

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB

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

Lab Sample ID: LCS 240-623243/5

Lab Sample ID: MB 240-623243/9

Matrix: Water

Analysis Batch: 623243

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 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 75 - 124 25.0 24.1 ug/L 96 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

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

Matrix: Water

Analysis Batch: 623243

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

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

	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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Client: Arcadis U.S., Inc. Job ID: 240-208886-1

Project/Site: Ford LTP

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

Lab Sample ID: 240-208964-C-2 MS **Matrix: Water**

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								

	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

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Matrix: Water

Analysis Batch: 622735

Analysis Batom SELTOS									
	MB	MB							
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	MB							
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)

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %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

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

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

Matrix: Water

Alialysis balcii. 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		ua/L		96	20 - 180	3	20

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Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA

08/08/24 11:41

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Prep Type: Total/NA

8/15/2024

QC Sample Results

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208886-1

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
 Qualifier
 Limits

 1,2-Dichloroethane-d4 (Surr)
 111
 68 - 127

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

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QC Association Summary

Client: Arcadis U.S., Inc. Job ID: 240-208886-1 Project/Site: Ford LTP

GC/MS VOA

Analysis Batch: 622735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208886-2	MW-96S_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
240-208886-1	TRIP BLANK_131	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 II	D Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208886-2	MW-96S_080224	Total/NA	Water	8260D	
MB 240-62324	43/9 Method Blank	Total/NA	Water	8260D	
LCS 240-6232	243/5 Lab Control Sample	Total/NA	Water	8260D	
240-208964-B	3-2 MSD Matrix Spike Duplicate	Total/NA	Water	8260D	
240-208964-C	C-2 MS Matrix Spike	Total/NA	Water	8260D	

Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-208886-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_131

Lab Sample ID: 240-208886-1 Date Collected: 08/02/24 00:00

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	622871	MS	EET CLE	08/09/24 18:27

Client Sample ID: MW-96S_080224 Lab Sample ID: 240-208886-2

Date Collected: 08/02/24 15:00 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	08/13/24 19:41
Total/NA	Analysis	8260D SIM		1	622735	MS	EET CLE	08/08/24 13:39

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: 240-208886-1

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

<u>TestAmerica</u>

Client Contact	merica Labora	ory program:			_ D\			PDES			RCR			Othe						_		•				HE LEADER IN ENVIRONMENTAL TEST
Company Name: Areadis	Regulat	ory program:			יט	N .	I. IN	PDES			KCK		1	Otne	r											TestAmerica Laboratories, In
	Client Project !	Manager: Kris	Hins	key			Site C	ontact	: Chi	ristina	a Wea	aver				Lab Contact: Mike DelMonico Telephone: 330-497-9396										COC No:
Address: 28550 Cubot Drive, Suite 500	Telephone: 248	-994-2240					Telepl	none: 2	248-9	94-22	40				\dashv											
City/State/Zip: Novi, M1, 48377							Analysis Turnaround Time																	1 of 1 COCs		
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis	.com			A	TAT if different from below 3 weeks						Analyses										For lab use only		
Project Name: Ford LTP	Sampler Name				`		TAT if																	Walk-in client		
Project Name: Ford LIP	Mar	tam Ha	un	an	l		10	day		2 we			.0													Lab sampling
Project Number: 30206169.0401.03	Method of Ship	ment/Carrier:					1			1 we 2 day			2	5=0			ا ۾			O N						
PO#US3410018772	Shipping/Track	sing No:					1_			1 day	у		Filtered Sample (Y / N)	Composite=C/Grab=G	00	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D			Vinyl Chloride 8260D	3260D					Job/SDG No:
				T	VIZUTIX	ī	1	Containers & Preservatives			ië T	826	CE	2-D(000	000	orid	ane								
Sample Identification	Sample Date	Sample Time	Ŀ	Aqueous	Sediment	Other:	H2S04	HCI III	HOH	ZaAci	Unpres	Other:	illered	Compos	1,1-DCE 8260D	is-1,2-[rans-1	PCE 8260D	TCE 8260D	inyl Ch	1,4-Dioxane 8260D					Sample Specific Notes / Special Instructions:
	Sample Date	Sample Time	÷	$\overline{}$	\$ S	1		7	É	N Z	-					_					-		-		+	
TRIP BLANK_ 131				1				1					N	G	Х	Х	Х	X	Χ	X						1 Trip Blank
MW-968_080224	8/2/24	1500		6				6	,				N	G	X	χ	X	X	X	X	X					3 VOAs for 8260D 3 VOAs for 8260D SIM
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Possible Hazard Identification ✓ Non-Hazard			Jnk	nown			San			al (A o Clier		nay be a				es are		ned lo rchive		han I		onths				
Special Instructions/QC Requirements & Comments: Boston Submit all results through Cadena at jtomalia@cadenaco.	1. Post	ROW																								
Submit all results through Cadena at jtomalia@cadenaco.c	com. Cadona #E	203728																								
Relinquished by Jawyauklemon	Company:	elej		Date/	2/2	4	1613	5	Rec	VOV	77	Col	d.	8	Wa	90	,		Com	oany:	a d	les				Date/Time: 8/2/1/4 1615
Relinquished by:	Company:			Date	S a	24 1	103			eived		2	1	J	2		~ }		Comp	any:	A	-				Date/fime: 815729 jo-31
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C2008 TealAmerica Laboratories, Inc. All rights reserved.									1						/											

VOA Sample Preservation - Date/Time VOAs Frozen.
Sample(s)were further preserved in the laboratory Time preservedPreservative(s) added/Lot number(s):
20. SAMPLE PRESERVATION
19. SAMPLE CONDITION 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
Contacted PM Date by via Verbal Voice Mail Other
If yes, Questions 13-17 have been checked at the originating laboratory If yes, Questions 13-17 have been checked at the originating laboratory If yes, Questions 13-17 have been checked at the originating laboratory Yes No No ph Strip Lott HC442471 Yes No No ph Strip Lott HC442471 Yes No
Wastwere the person(s) who confected the samples clearly identified on the COC? Did all bottles arrive in good condition (Unbroken)? Could all bottle labels (ID/Date/Time) be reconciled with the COC? For each sample, does the COC specify preservatives (MN), # of containers (MN), as Were correct bottle(s) used for the test(s) indicated? Sufficient quantity received to perform indicated analyses?
Shippers' packing slip attached to the cooler(s)? Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)? Were the custody papers relinquished & signed in the appropriate place? Yes No
of If Yes Quantity dated? (LLHgMeHg)?
IR GUN#
rial used Bubble Wrap Foam Plastic Bag NT: Wet Ice Blue Ice Dry Ice Water
Receipt After-hours Drop-off Date/Time Storage Location / Eurofins Cooler # /- C Foam Box Client Cooler Box Other
UPS FAS Waypoint Client Drop Off E
Client Arcadis Site Name Cooler unpacked by:
Barberton Facility

WI-NC-099-062024 Cooler Receipt Form.doc

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	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN #:	EC Client Box Officer IR GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other RGUN#:	EC Client Box Other IR GUN #:	EC Client Box Other R GUN #:	EC Client Box Other RGUN#:	EC Client Box Other RGUN#:	EC Client Box Other IR GUN #:	EC Client Box Other RGUN#:	EC Client Box Other RGUN #:	EC Client Box Other RGUN #:	EC Client Box Other RGUN N:-	EC Client Box Other RGUN #:	EC Client Box Other RGUN #:	EC Client Box Other RGUN #:	EC Client Box Other IR GUN #:	EC Client Box Other RGUN#:	EC Client Box Other RGUN #:	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other IRGUN#:	EC Client Box Ofher IR GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN #: 4	(ED Client Box Other IR GUN #:	Cooler Description IR Gun # Observed Corrected (Circle) Temp °C Temp °C
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WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

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Login Container Summary Report

240-208886

Temperature readings Client Sample ID	<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number
TRIP BLANK_131	240-208886-A-1	Voa Vial 40ml - Hydrochloric Acid	
MW-96S_080224	240-208886-A-2	Voa Vial 40ml - Hydrochloric Acıd	and a second sec
MW-96S_080224	240-208886-B-2	Voa Vial 40ml - Hydrochloric Acid	
MW-96S_080224	240-208886-C-2	Voa Vial 40ml - Hydrochloric Acid	
MW-96S_080224	240-208886-D-2	Voa Vial 40ml - Hydrochloric Acid	enteremental temperature descriptions demonstrations temperatures temperatures descriptions described described described descriptions described desc
MW-96S_080224	240-208886-E-2	Voa Vial 40ml - Hydrochloric Acid	
MW-96S_080224	240-208886-F-2	Voa Vial 40ml - Hydrochloric Acid	

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Page 1 of 1

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: 208886-1 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: 208886-1

		Sample Name:	TRIP BLA	_	1		MW-965		4	
		Lab Sample ID:	240208	8861			240208	8862		
		Sample Date:	8/2/202	4			8/2/202	4		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>)D</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-8260	<u>DSIM</u>									
	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 # 240-208886-1

CADENA Verification Report: 2024-08-15

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 55490R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-208886-1 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	Analysis		
Sample ID	Labib	IVIALITA	Collection Date	Parent Sample	VOC	VOC SIM	
TRIP BLANK_131	240-208886-1	Water	08/02/2024		X		
MW-96S_080224	240-208886-2	Water	08/02/2024		X	X	

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		X		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

Rep	orted			Not Required
No	Yes	No	Yes	Required
C/MS)				
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
X				Х
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	X		Х	
	Х		Х	
	No C/MS)	X X X X X X X X X X X X X X X X X X X	Reported Acce No Yes No C/MS) X X X X X X X X X X X X X	No Yes No Yes

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

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Chain of Custody Record

TestAmerica

TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 Client Contact □ DW RCRA Regulatory program: TestAmerica Laboratories, Inc. Company Name: Arcadis Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico COC No: Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 1 of 1 COCs City/State/Zip: Novi, MI, 48377 Analysis Turnaround Time Analyses For lab use only Email: kristoffer.hinskey@arcadis.com Phone: 248-994-2240 Walk-in client FAT if different from below Sampler Name: Project Name: Ford LTP Maryam Hanan 3 weeks ✓ 2 weeks 10 day Lab sampling Project Number: 30206169.0401.03 1 week 8260D SIM Frans-1,2-DCE 8260D 2 days Vinyl Chloride 8260D ☐ I day Job/SDG No: PO # US3410018772 Shipping/Tracking No: Containers & Preservatives PCE 8260D TCE 8260D 1,4-Dioxane Sample Specific Notes / HNO3 Special Instructions: Sample Date | Sample Time Sample Identification TRIP BLANK_ 131 Х X NIG Χ Χ 1 Trip Blank MW-96S_080224 3 VOAs for 8260D 6 3 VOAs for 8260D SIM Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Jnknown Non-Hazard Disposal By Lab Archive For Special Instructions/QC Requirements & Comments: BOSTON Special Instructions/QC Requirements & Comments: BOSHOW FOR ROW Submit all results through Cadena at itomalia@cadenacc.com. Cadena #E203728 Level IV Reporting requested. Relinquished by: 1615 1615 Relinguished by: Relinquished by Received in Laboratory by 815/24 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: 240-208886-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_131

Lab Sample ID: 240-208886-1 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 18:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/09/24 18:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/09/24 18:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/09/24 18:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/09/24 18:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/09/24 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		62 - 137			_		08/09/24 18:27	1
4-Bromofluorobenzene (Surr)	85		56 ₋ 136					08/09/24 18:27	1
Toluene-d8 (Surr)	95		78 - 122					08/09/24 18:27	1
Dibromofluoromethane (Surr)	105		73 - 120					08/09/24 18:27	1

Client Sample ID: MW-96S_080224

104

Date Collected: 08/02/24 15:00

Date Received: 08/06/24 08:00

Dibromofluoromethane (Surr)

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 13:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127			-		08/08/24 13:39	1

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1,2-Dichloroethane-d4 (Surr)	106	-	68 - 127			-		08/08/24 13:39	1
- Method: SW846 8260D - Volati	le Organic Comp	ounds by C	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			08/13/24 19:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/13/24 19:41	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/13/24 19:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/13/24 19:41	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/13/24 19:41	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/13/24 19:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		62 - 137			_		08/13/24 19:41	1
4-Bromofluorobenzene (Surr)	84		56 ₋ 136					08/13/24 19:41	1
Toluene-d8 (Surr)	95		78 ₋ 122					08/13/24 19:41	1

73 - 120

08/13/24 19:41

Lab Sample ID: 240-208886-2

Matrix: Water