PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 5/20/2024 12:57:46 PM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-204321-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

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

Generated 5/20/2024 12:57:46 PM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396

Page 2 of 21

4

6

1

U

9

10

12

13

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

Laboratory Job ID: 240-204321-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	15
Lab Chronicle	16
Certification Summary	17
Chain of Custody	18

4

8

9

10

12

13

Definitions/Glossary

Client: Arcadis U.S., Inc.

Job ID: 240-204321-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

U Indicates the analyte was analyzed for but not detected.

Glossary

CNF

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

DER Duplicate Error Ratio (normalized absolute difference)

Contains No Free Liquid

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

Eurofins Cleveland

Page 4 of 21

7

8

10

13

Case Narrative

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

Job ID: 240-204321-1 Eurofins Cleveland

Job Narrative 240-204321-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 5/11/2024 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 3.2°C and 3.9°C.

GC/MS VOA

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

Eurofins Cleveland

Job ID: 240-204321-1

Page 5 of 21 5/20/2024

Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204321-1

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: 240-204321-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-204321-1	TRIP BLANK_41	Water	05/08/24 00:00	05/11/24 08:00
240-204321-2	MW-92S_050824	Water	05/08/24 11:25	05/11/24 08:00

Detection Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204321-1

Client Sample ID: TRIP BLANK_41

No Detections.

Lab Sample ID: 240-204321-1

Client Sample ID: MW-92S_050824 Lab Sample ID: 240-204321-2

No Detections.

1

-

7

9

10

12

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204321-1

Project/Site: Ford LTP

Date Received: 05/11/24 08:00

Client Sample ID: TRIP BLANK_41

Lab Sample ID: 240-204321-1 Date Collected: 05/08/24 00:00

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 05/18/24 06:14 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/18/24 06:14 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 05/18/24 06:14 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 05/18/24 06:14 Trichloroethene 1.0 U 1.0 0.44 ug/L 05/18/24 06:14 Vinyl chloride 0.45 ug/L 1.0 U 1.0 05/18/24 06:14 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 108 62 - 137 05/18/24 06:14 4-Bromofluorobenzene (Surr) 92 05/18/24 06:14 56 - 136 96 78 - 122 05/18/24 06:14 Toluene-d8 (Surr) Dibromofluoromethane (Surr) 105 73 - 120 05/18/24 06:14

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204321-1

Project/Site: Ford LTP

Date Received: 05/11/24 08:00

Dibromofluoromethane (Surr)

Client Sample ID: MW-92S_050824

Lab Sample ID: 240-204321-2 Date Collected: 05/08/24 11:25

Matrix: Water

05/18/24 06:38

				Unit	D	Prepared	Analyzed	Dil Fac
2.0	U	2.0	0.86	ug/L			05/16/24 22:50	
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
105		68 - 127					05/16/24 22:50	
	%Recovery	%Recovery Qualifier	%Recovery Qualifier Limits Prepared	%Recovery Qualifier Limits Prepared Analyzed				

The state of the s					•			
Tetrachloroethene	1.0	U	1.0	0.44	ug/L		05/18/24 06:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L		05/18/24 06:38	1
Trichloroethene	1.0	U	1.0	0.44	ug/L		05/18/24 06:38	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L		05/18/24 06:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137				05/18/24 06:38	1
4-Bromofluorobenzene (Surr)	92		56 ₋ 136				05/18/24 06:38	1
Toluene-d8 (Surr)	98		78 - 122				05/18/24 06:38	1

73 - 120

104

5/20/2024

Surrogate Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204321-1

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-204311-A-2 MSD	Matrix Spike Duplicate	97	103	98	97
240-204311-D-2 MS	Matrix Spike	96	105	101	94
240-204321-1	TRIP BLANK_41	108	92	96	105
240-204321-2	MW-92S_050824	105	92	98	104
LCS 240-613497/4	Lab Control Sample	95	102	102	94
MB 240-613497/7	Method Blank	105	93	100	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

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-204316-C-2 MS	Matrix Spike	102	
240-204316-C-2 MSD	Matrix Spike Duplicate	101	
240-204321-2	MW-92S_050824	105	
LCS 240-613351/4	Lab Control Sample	98	
MB 240-613351/6	Method Blank	100	
Surrogate Legend			

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

Eurofins Cleveland

2

5

8

4.0

11

10

Client: Arcadis U.S., Inc. Job ID: 240-204321-1 Project/Site: Ford LTP

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

Lab Sample ID: MB 240-613497/7

Matrix: Water

Analysis Batch: 613497

Client Sample ID: Method I	Blank
Prop Type: Tot	al/NA

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			05/17/24 22:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/17/24 22:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/17/24 22:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/17/24 22:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/17/24 22:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/17/24 22:57	1

MB MB				
%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
105	62 - 137		05/17/24 22:57	1
93	56 ₋ 136		05/17/24 22:57	1
100	78 - 122		05/17/24 22:57	1
100	73 - 120		05/17/24 22:57	1
	%Recovery 105 93 100	%Recovery Qualifier Limits 105 62 - 137 93 56 - 136 100 78 - 122	%Recovery Qualifier Limits Prepared 105 62 - 137 93 56 - 136 100 78 - 122	%Recovery Qualifier Limits Prepared Analyzed 105 62 - 137 05/17/24 22:57 93 56 - 136 05/17/24 22:57 100 78 - 122 05/17/24 22:57

Lab Sample ID: LCS 240-613497/4

Matrix: Water

Analysis Batch: 613497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike	LCS	LCS				%Rec	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
25.0	21.1		ug/L		84	63 - 134	
25.0	23.0		ug/L		92	77 - 123	
25.0	22.2		ug/L		89	76 - 123	
25.0	20.8		ug/L		83	75 - 124	
25.0	21.4		ug/L		86	70 - 122	
12.5	11.2		ug/L		89	60 - 144	
	Added 25.0 25.0 25.0 25.0 25.0 25.0	Added Result 25.0 21.1 25.0 23.0 25.0 22.2 25.0 20.8 25.0 21.4	Added Result Qualifier 25.0 21.1 25.0 23.0 25.0 22.2 25.0 20.8 25.0 21.4	Added Result Qualifier Unit 25.0 21.1 ug/L 25.0 23.0 ug/L 25.0 22.2 ug/L 25.0 20.8 ug/L 25.0 21.4 ug/L	Added Result Qualifier Unit D 25.0 21.1 ug/L 25.0 23.0 ug/L 25.0 22.2 ug/L 25.0 20.8 ug/L 25.0 21.4 ug/L	Added Result Qualifier Unit D %Rec 25.0 21.1 ug/L 84 25.0 23.0 ug/L 92 25.0 22.2 ug/L 89 25.0 20.8 ug/L 83 25.0 21.4 ug/L 86	Added Result Qualifier Unit D %Rec Limits 25.0 21.1 ug/L 84 63 - 134 25.0 23.0 ug/L 92 77 - 123 25.0 22.2 ug/L 89 76 - 123 25.0 20.8 ug/L 83 75 - 124 25.0 21.4 ug/L 86 70 - 122

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		62 _ 137
4-Bromofluorobenzene (Surr)	102		56 ₋ 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	94		73 - 120

Lab Sample ID: 240-204311-A-2 MSD

Matrix: Water

Analysis Batch: 613497

Client Sample ID: Ma	atrix Spike Duplicate
	Prep Type: Total/NA

	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	21.5		ug/L		86	56 - 135	13	26
cis-1,2-Dichloroethene	1.0	U	25.0	22.8		ug/L		91	66 - 128	7	14
Tetrachloroethene	1.0	U	25.0	19.7		ug/L		79	62 - 131	8	20
trans-1,2-Dichloroethene	1.0	U	25.0	21.2		ug/L		85	56 - 136	13	15
Trichloroethene	1.0	U	25.0	19.5		ug/L		78	61 - 124	10	15
Vinyl chloride	1.0	U	12.5	11.4		ug/L		91	43 - 157	9	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	103		56 - 136
Toluene-d8 (Surr)	98		78 - 122

Eurofins Cleveland

Page 12 of 21

Client: Arcadis U.S., Inc. Job ID: 240-204321-1

Project/Site: Ford LTP

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

Matrix: Water

Analysis Batch: 613497

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

MSD MSD

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 97 73 - 120

Lab Sample ID: 240-204311-D-2 MS

Lab Sample ID: 240-204311-A-2 MSD

Matrix: Water

Analysis Batch: 613497

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

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 1,1-Dichloroethene 1.0 U 25.0 19.0 ug/L 76 56 - 135 cis-1,2-Dichloroethene 1.0 U 25.0 85 66 - 128 21.3 ug/L Tetrachloroethene 1.0 U 25.0 18.1 ug/L 72 62 - 131 trans-1,2-Dichloroethene ug/L 74 1.0 U 25.0 18.6 56 - 136 Trichloroethene 1.0 U 25.0 17.7 ug/L 71 61 - 124 Vinyl chloride 1.0 U 12.5 10.4 ug/L 43 - 157

MS MS

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	105		56 - 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	94		73 - 120

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

Lab Sample ID: MB 240-613351/6

Matrix: Water

Analysis Batch: 613351

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 05/16/24 18:56 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 100 68 - 127 05/16/24 18:56

Lab Sample ID: LCS 240-613351/4

Analysis Batch: 613351

Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 10.0 ug/L 100 75 - 121

LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 98

Lab Sample ID: 240-204316-C-2 MS

Matrix: Water

Analysis Ratch: 613351

Analysis Batch: 613351										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	10.5		ug/L		105	20 - 180	

Eurofins Cleveland

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Page 13 of 21

QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204321-1

Project/Site: Ford LTP

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

1,2-Dichloroethane-d4 (Surr)

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	102		68 - 127									
Lab Sample ID: 240-204316	-C-2 MSD						Clien	t Sa	mple ID	: Matrix S	pike Dup	licate
Matrix: Water										Prep '	Type: To	tal/NA
Analysis Batch: 613351												
	Sample	Sample	Spike	MSD	MSD					%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	10.2		ug/L		102	20 - 180	3	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								

QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204321-1

GC/MS VOA

Analysis Batch: 613351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204321-2	MW-92S_050824	Total/NA	Water	8260D SIM	
MB 240-613351/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-613351/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-204316-C-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-204316-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 613497

Γ					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204321-1	TRIP BLANK_41	Total/NA	Water	8260D	<u> </u>
240-204321-2	MW-92S_050824	Total/NA	Water	8260D	
MB 240-613497/7	Method Blank	Total/NA	Water	8260D	
LCS 240-613497/4	Lab Control Sample	Total/NA	Water	8260D	
240-204311-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-204311-D-2 MS	Matrix Spike	Total/NA	Water	8260D	

Ć

£

46

11

12

13

Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-204321-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_41

Lab Sample ID: 240-204321-1 Date Collected: 05/08/24 00:00

Matrix: Water

Date Received: 05/11/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D			613497	LEE	EET CLE	05/18/24 06:14

Client Sample ID: MW-92S_050824 Lab Sample ID: 240-204321-2

Date Collected: 05/08/24 11:25 Matrix: Water

Date Received: 05/11/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	613497	LEE	EET CLE	05/18/24 06:38
Total/NA	Analysis	8260D SIM		1	613351	CS	EET CLE	05/16/24 22:50

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: 240-204321-1

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	07-31-24	
lowa	State	421	06-01-25	
Kentucky (WW)	State	KY98016	12-30-24	
Minnesota	NELAP	039-999-348	12-31-24	
New Jersey	NELAP	OH001	06-30-24	
New York	NELAP	10975	04-02-25	
Ohio VAP	State	ORELAP 4062	02-27-25	
Oregon	NELAP	4062	02-27-25	
Pennsylvania	NELAP	68-00340	08-31-24	
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	

4

5

7

8

4.6

10

12

Chain of Custody Record

TestAmeri	CC
THE LEADER IN ENVIRONMENTAL	TESTIN

Tes	tAmerica Labora	tory location:	Brighton	10448	Citatio	on Drive,	Suite	200 / 8	3righto	on, MI 48	116 /	810-22	29-276	63					TH	HE LEADER IN ENVIRONMENTAL TESTIN	G
Client Contact	Regulat	ory program:		□ DW		□ NP	DES		R	'RA	F (ther									
Company Name: Arcadis	Client Project	Manager: Kris H	inskey			Site Contact: Christina Weaver Lab Contact: Mike DelMonico						:0	TestAmerica Laboratories, Inc.								
Address: 28550 Cabot Drive, Suite 500	Telephone: 248						Telephone: 248-994-2240 Telephone: 330-497-935					96			1011	-					
City/State/Zip: Novi, MI, 48377						Analysis Turnaround Time Analyses							1 of 1 COCs For lab use only								
Phone: 248-994-2240	Email: kristoff	er.hinskey@arca	dis.com	1																	
Project Name: Ford LTP	Tourspier : Times				_											3 weeks			Walk-in client		
	_		7	10			ay		weeks											Lab sampling	
Project Number: 30206169.0401.03	Method of Ship	ment/Carrier:							week days		2	3		, g			8	NIS C			
PO# US3410018772	Shipping/Track	ing No:							day		Filtered Sample (Y / N)	Composite=C/Grab=G	00	CIS-1,Z-DCE 8260U Trans_1 2,DCE 8260D			Vinyt Chloride 8260D	1.4-Dioxane 8260D SIM		Job/SDG No:	
				Matrix	- 27	Co	ntainc	ers & Pr	reserva	tivo	Sam	¥ 8	1,1-DCE 8280D	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	09	G00	lorid	(ane			4
			Alr	Sediment	Other:	HISO4 HNO3	-	10 to	Vacili	Other:	lered	nodu.	3 3	1.2-1-	PCE 8260D	TCE 8260D	y C	-Dio		Sample Specific Notes / Special Instructions:	1
Sample Identification	Sample Date	Sample Time	Aq. II	Sedim	ō	E E	Ð	NaOH	ž 5	ਣ	Ē	<u> </u>		S L	8	12	<u> </u>	4,1	_		=
TRIP BLANK_ 4 (1				1				N	G :	< >	$x \mid x$	$\langle x $	X	X			1 Trip Blank	
TRIP BLANK_ 41 MW-925_050824	5/8/24	1125	6				6				No	G)	X X	X)	< x	X	X	X		3 VOAs for 8260D 3 VOAs for 8260D SIM	\
	1											1				1					7
							-		+	-	+	-	+		+	+	-	+ + + +			-
												_									4
												11						Man dina dia dia dia dia dia dia dia dia dia di			
			+				T		\top			- 11									1
			_	\vdash		+	\rightarrow		+		+	Ш						<i>!!!!!!!!!!!!!!!!</i>			-
									+			24	0-20	4321	Cha	n of					
																*** **	Justi	ouy .			ψAN
			-	-	-		+-	++		-	+	-	+		\	+			1-	19	a
																					1
																				5)81245	
Possible Hazard Identification Non-Hazard Ammable sin Irrit	ant Poise	on B	Jaknow	'n		Sam		isposal urn to C		may be	assesse Disposa				ained Archi			month) Months			
Special Instructions/QC Requirements & Comments: 12	-036 R	o alster	<+																		
Submit all results through Cadena at jtomalia@cadenac Level IV Reporting requested.	o.com. Cadena #	203728	٠,																		
Relinquished by:	Company:	CADIS	Dat	te Time:	13	35		D.	ved by	1. (المارة) <u>-</u>	~~	ΩΑ	36	Con	many:	RCADIS		Date/Time: S/8/24 (335	1
Relinquished by:	- Company	ash is	Di	1912			\	Regai	yed by	PI	MA	~ <u> </u>	110	11 11		Con	EF	-TA	-	Date/Timer	7
Relinguished by				1912	4	0902		Rece		Laborat	1 UK	reg	1	_			pany	14		-,,	-{
Relinguished by Mansen	Company:	7	E	Time:	4			I CCC	·cu ill		A M N		RO	YF	<u> </u>		Ŀ	FINC		5-11-24 800	_

©2008, TestAmerica cabinatches, Itic. All rights reserved. TestAmerica & Cessign of are trademarks of TestAmerica cubinatines, Inc.

	VOA Sample Preservation Date/Time VOAs Frozen.
boratory	Sample(s)were further preserved in the lateral preserved in the lateral preserved
	20 SAMPLE PRESERVATION
9	19 SAMPLE CONDITION Sample(s) Sample(s) Were received after the recommended holding time had expired. Sample(s) Were received with bubble >6 mm in diameter (Notify PM)
3	18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES 🗐 additional next page Samples processed by
	Contacted PM Date byvıa Verbal Voice Mail Other Concerning
_P H Stap Lo#HC439975	13 Were all preserved sample(s) at the correct pH upon receipt? 14. Were VOAs on the COC? 15 Were air bubbles >6 mm in any VOA vials? 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # COV CYC No Yes No 17 Was a LL Hg or Me Hg trip blank present?
A A A A A A A A A A A A A A A A A A A	Could all bottle labels (ID/Date/Time) be reconciled with the COC? For each sample, does the COC specify preservatives (YM), # of contamers (MN), and sam Were correct bottle(s) used for the test(s) indicated? Sufficient quantity received to perform indicated analyses? Are these work share samples and all listed on the COC? Yes
Grease	Were tamper/custody seats intact and uncompromised: 3 Shippers' packing slip attached to the cooler(s)? 4. Did custody papers accompany the sample(s)? 5 Were the custody papers relinquished & signed in the appropriate place? 6 Was/were the person(s) who collected the samples clearly identified on the COC? 7 Did all bottles arrive in good condition (Unbroken)?
Tests that are not checked for pH by Receiving:	HYes Quantity Cach Tes No NA dated? S(LLHg/McHg)? Yes No NA
å	Burofins Cooler # C Foam Box Chent Cooler Box Other Packing material used. Shubble Wran Foam Plastic Bag None Other COOLANT: Weller Blue Ico Dry Ico Water None I Cooler temperature ugon receipt IR GUN# (CF O.O. °C) Observed Cooler Temp °C Corrected Cooler Temp
YER	Chent Hcadis Ste Name Cooler Received on 5-11-24 Opened on 5-11-24 TAMMY RU Received on Top-off-Date/Films Received-After-hours-Drop-off-Date/Films Received-After-hours-Drop-off-Date/Films Storage-Location
	CANOR SECURISE SECURIO SE LA TRADESCA DE LA TRADESCA DEL TRADESCA DEL TRADESCA DE LA TRADESCA DEL TRADESCA DE LA TRADESCA DEL TRADESCA DE LA TRADESCA DEL TRADESCA DE LA TRADESCA DEL TRADESCA DE LA TRAD

Login#	

Wet Ice Bive Ice Dry Ice Water None			IR GUN #:	Office	Client Roy	5
Wdler None			IR GUN #:	x Olher	Client box	EC
Wetice Blueice Dry			R GUN #:	x Olher	Client Box	EC
Wet Ice Blue Ice Dry Ice Water None			RGUN#:	x Other	Client box	EC .
Blue Ice Valer None			IR GUN #:	x Other	Client Box	EC -
Blue Ice Vafer None			JR GUN #:	x Olher	Client Box	EC
5			JR GUN #;	x Other	Client Box	EC
Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	x Olher	Client Box	EC
5			IR GUN #:	x Other	Client Box	S.
=			IR GUN #:	x Olher	Client Box	EC
Wettce Blue Ice Dry Ice Water None			IR GUN #:	x Other	Client Box	EC
~			R GUN #:	x Olher	Client Box	EC
5			IR GUN #:	x Other	Client Box	
			IR GUN #:	x Olher	Client Box	EC
Wet Ice Stue Ice Dry Ice Water None			IR GUN #:	x Other	Client Box	EC.
			IR GUN #:	x Other	Client Box	EC
			IR GUN #:	x Other	Client Box	EC
			IR GUN #:	x Olher	Client Box	EC
Blue Vafer			IR GUN #:	x Olher	Client Box	EC
Blue Vater			IR GUN #:	x Olher	Client Box	EC
Blue Vafer		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	IR GUN #:	x Ofher	Client Box	EC
6			R GUN #:	x Other	Client Box	EC
5	,		IR GUN #:	x Olher	Client Box	EC .
Le .			IR GUN #:	x Other	Client Box	EC '
6			IR GUN #:	x Other	Client Box	EC
Blue Valer			IR GUN #:	x Other	Client Box	EC -
Blue Ice Valer None			IR GUN #:	x Other	Client Box	EC .
ā			IR GUN #:	x Other	Client Box	EC .
Wet Ice Blue Ice Dry Ice Waler None			IR GUN #:	x Ofher	Client Box	EC (
Wellice Bluelice Drylice Water None			IR GUN #·	c Olher	Client Box	EC (
Wet Ice Blue Ice Dry Ice Waler None			IR GUN #:	c Olher	Client Box	EC 0
Wettice Bluetice Drytice Water None			IR GUN #:	c Other	Client Box	EC (
Weilde Blue Ice Dry Ice Water Nane	رب س)	(3) (2)	IR GUN #:	(Other	Client Box	\F.
Blue Ice Jater None	3.9	3.7	RGUN#:	c Ofher	Client Box	NE.
Coolant (Circle)	Corrected Temp °C	Observed Temp °C	IR Gun # (Circle)	iption	Cooler Description (Circle)	$)^{\circ}$

Login Container Summary Report

240-204321

remperature readings			
Client Sample ID	<u>Lab ID</u>	Container Type	<u>Container</u> <u>Preservation Preservation</u> <u>pH Temp Added Lot Number</u>
TRIP BLANK_41	240-204321-A-1	Voa Vial 40ml - Hydrochloric Acıd	
MW-92S_050824	240-204321-A-2	Voa Vial 40ml - Hydrochloric Acid	
MW-92S_050824	240-204321-B-2	Voa Vıal 40ml - Hydrochloric Acid	
MW-92S_050824	240-204321-C-2	Voa Vial 40ml - Hydrochloric Acid	
MW-92S_050824	240-204321-D-2	Voa Vial 40ml - Hydrochloric Acıd	
MW-92S_050824	240-204321-E-2	Voa Vial 40ml - Hydrochloric Acid	
MW-92S_050824	240-204321-F-2	Voa Vial 40ml - Hydrochloric Acıd	The second secon

Page 1 of 1

DATA VERIFICATION REPORT



May 21, 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: 30206169.401.03

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

Laboratory submittal: 204321-1

Sample date: 2024-05-08

Report received by CADENA: 2024-05-20

Initial Data Verification completed by CADENA: 2024-05-21

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, 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.

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.
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: 204321-1

		Sample Name:	TRIP BLA	NK_41			MW-92S	_050824		
		Lab Sample ID:	2402043	3211			2402043	3212		
		Sample Date:	5/8/2024	1			5/8/2024	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 # 240-204321-1

CADENA Verification Report: 2024-05-21

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 54271R Review Level: Tier III Project: 30206169.401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-204321-1 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 10	Labib	IVIALITA	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_41	240-204321-1	Water	05/08/2024		Х	
MW-92S_050824	240-204321-2	Water	05/08/2024		X	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance otable	Not Required
	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	X				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		Х	
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: BASHIME

DATE: June 11, 2024

PEER REVIEW: Andrew Korycinski

DATE: June 14, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record



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

Client Contact	Regulatory program:	□ DW	□ NPDES	☐ RCRA	Other			
Company Name: Arcadis						T		TestAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris Hi	nskey	Site Contact:	Christina Weaver		Lab Contact: Mi	ke DelMonico	COC No: 15/17
	Telephone: 248-994-2240		Telephone: 2	48-994-2240		Telephone: 330-	197-9396	
City/State/Zip: Novi. MI, 48377	Email: kristoffer.hinskey@areae	die com	Analysis	Turnaround Time	T T T		Analyses	1 of 1 COCs For lab use only
Phone: 248-994-2240	Email: Kristoner musicy apareae	ais.com						
	Sampler Name:		TAT it dillerent					Walk-in client
Project Name: Ford LTP	Lettic Jo	y	10 day	3 weeks 2 weeks				Lab sampling
Project Number: 30206169.0401.03	Method of Shipment/Carrier:		1	1 week 2 days	2 9	8	Q WIS	
PO # US3410018772	Shipping/Tracking No:		T I day		Gral	8260D CE 826	8260D (260D S	Job/SDG No:
		Matrix	Containe	rs & Preservatives		8 D D		
Sample Identification	Sample Date Sample Time	Aqueous Stefinient Solid Other:	H2SO4 HNO3 HC1	NaOH ZaAc NaOH Unpres	Filtered Sample (Y / Composite—C / Grab	cis-1,2-DCE 8260D Trans-1,2-DCE 8260D PCE 8260D	TCE 8260D Vinyl Chloride 8260 1,4-Dioxane 8260D	Sample Specific Notes / Special Instructions:
TRIP BLANK_ 41		1	1		NGX	XXX	x x	1 Trip Blank
TRIP BLANK_ 41 MW-925_050824	5/8/24 1125	6	6		NGX	XXX	XXX	3 VOAs for 8260D 3 VOAs for 8260D SIM
	7,111							
					1111		I COLO MANAGEMENTA DE LA COLOR	
		++						
					240)-204321 Chair	of Custody	A COUNTY A
							10.11.1	- MICHIGA
								100
								170
			- 	+	++-			5/8/24/
								7
Possible Hazard Identification Non-Hazard Stammable Sin Irr	itant Poison B	Jaknowa			oe assessed if sam Disposal By Lat		onger than 1 month) e For l Months	
Special Instructions/QC Requirements & Comments: Submit all results through Cadena at jtomalia@cadena Level IV Reporting requested.	co.com. Cadena #E203728	St						
Relinquished by:	Company: ARCADIS	Date/Time: 13	35	Received by:	COLD S	TORAGE	Company: ARCADIS	Date/Time: \$18/24 (335
Relinquished by:	Company Andris	Dai: Time: 519124	0900	Received by: Reseived by:	Manke	7	Company: EETA	Date Times 855
Relinquished by Mansey	Company: EETA	Date/Time:		Received in Labor	AMMY		Company	5-11-24 800

C2008, Tentamenta unburatories, inc. Altrophytemerica Tentamenta & Centin ^{nel} are indomenta of Tentamenta Laboratories, inc.

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204321-1 Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_41

Lab Sample ID: 240-204321-1 Date Collected: 05/08/24 00:00 **Matrix: Water**

Date Received: 05/11/24 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			05/18/24 06:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 06:14	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 06:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 06:14	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 06:14	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/24 06:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137			_		05/18/24 06:14	1
4-Bromofluorobenzene (Surr)	92		56 ₋ 136					05/18/24 06:14	1
Toluene-d8 (Surr)	96		78 - 122					05/18/24 06:14	1
Dibromofluoromethane (Surr)	105		73 - 120					05/18/24 06:14	1

Client Sample ID: MW-92S_050824 Lab Sample ID: 240-204321-2

Date Collected: 05/08/24 11:25

Date Received: 05/11/24 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			05/16/24 22:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		68 - 127			-		05/16/24 22:50	1
Method: SW846 8260D - Volat Analyte	•	ounds by G Qualifier	C/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL			<u>D</u> .	Prepared		Dil Fac
	Result 1.0	Qualifier U	RL	0.49	ug/L	<u>D</u> -	Prepared	05/18/24 06:38	Dil Fac
Analyte	Result	Qualifier U	RL	0.49		<u>D</u> .	Prepared		Dil Fac
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U	RL	0.49 0.46	ug/L	<u> </u>	Prepared	05/18/24 06:38	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0 1.0	Qualifier U U U	1.0 1.0	0.49 0.46 0.44	ug/L ug/L	<u>D</u>	Prepared	05/18/24 06:38 05/18/24 06:38	Dil Fac
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	Result 1.0 1.0 1.0	Qualifier U U U U	1.0 1.0 1.0 1.0	0.49 0.46 0.44 0.51	ug/L ug/L ug/L	D	Prepared	05/18/24 06:38 05/18/24 06:38 05/18/24 06:38	Dil Fac 1 1 1 1 1 1 1 1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137		05/18/24 06:38	1
4-Bromofluorobenzene (Surr)	92		56 - 136		05/18/24 06:38	1
Toluene-d8 (Surr)	98		78 - 122		05/18/24 06:38	1
Dibromofluoromethane (Surr)	104		73 - 120		05/18/24 06:38	1

Matrix: Water