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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 5/31/2024 7:41:01 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-204998-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

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Authorization

Generated 5/31/2024 7:41:01 AM

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: 240-204998-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.

Job ID: 240-204998-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

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

Job ID: 240-204998-1 Eurofins Cleveland

Job Narrative 240-204998-1

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 5/22/2024 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 3.5°C and 3.7°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: 240-204998-1

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Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204998-1

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

5/31/2024

Sample Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204998-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-204998-1	TRIP BLANK_38	Water	05/16/24 00:00	05/22/24 08:00
240-204998-2	MW-123S_051624	Water	05/16/24 15:35	05/22/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc.

Job ID: 240-204998-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_38 Lab Sample ID: 240-204998-1

No Detections.

Client Sample ID: MW-123S_051624 Lab Sample ID: 240-204998-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fa		Method	Prep Type
Vinyl chloride	0.74	J	1.0	0.45	ug/L		1	8260D	Total/NA

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204998-1

Project/Site: Ford LTP

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Date Received: 05/22/24 08:00

Client Sample ID: TRIP BLANK_38

Lab Sample ID: 240-204998-1 Date Collected: 05/16/24 00:00

Matrix: Water

05/28/24 20:05

05/28/24 20:05

98

115

Method: SW846 8260D - Volat	ile Organic Comp	ounds by C	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			05/28/24 20:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/28/24 20:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 20:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/28/24 20:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 20:05	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/28/24 20:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		62 - 137			_		05/28/24 20:05	1
4-Bromofluorobenzene (Surr)	79		56 ₋ 136					05/28/24 20:05	1

78 - 122

73 - 120

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204998-1

Project/Site: Ford LTP

Client Sample ID: MW-123S_051624

Date Collected: 05/16/24 15:35

Matrix: Water

Lab Sample ID: 240-204998-2

05/28/24 20:31

05/28/24 20:31

05/28/24 20:31

05/28/24 20:31

Date Received: 05/22/24 08:00

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/29/24 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		68 - 127			-		05/29/24 16:02	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			05/28/24 20:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/28/24 20:31	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 20:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/28/24 20:31	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 20:31	1
Vinyl chloride	0.74	J	1.0	0.45	ug/L			05/28/24 20:31	1

62 - 137

56 - 136

78 - 122

73 - 120

117

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Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 240-204998-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

-				Percent Sui	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-204929-B-2 MSD	Matrix Spike Duplicate	105	99	96	102
240-204929-C-2 MS	Matrix Spike	104	94	99	103
240-204998-1	TRIP BLANK_38	118	79	98	115
240-204998-2	MW-123S_051624	117	86	93	115
LCS 240-614540/6	Lab Control Sample	104	96	101	101
MB 240-614540/10	Method Blank	113	85	95	108
0					

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)	
240-204998-2	MW-123S_051624	92	
240-205008-A-2 MS	Matrix Spike	89	
240-205008-A-2 MSD	Matrix Spike Duplicate	93	
LCS 240-614704/4	Lab Control Sample	87	
MB 240-614704/6	Method Blank	85	
Surrogate Legend			

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

Eurofins Cleveland

Client: Arcadis U.S., Inc. Job ID: 240-204998-1

Project/Site: Ford LTP Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-614540/10

Matrix: Water

Analysis Batch: 614540

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			05/28/24 13:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/28/24 13:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 13:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/28/24 13:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 13:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/28/24 13:44	1

MB MB Qualifier %Recovery Surrogate Prepared Dil Fac Limits Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 05/28/24 13:44 113 4-Bromofluorobenzene (Surr) 85 56 - 136 05/28/24 13:44 Toluene-d8 (Surr) 95 78 - 122 05/28/24 13:44 Dibromofluoromethane (Surr) 108 73 - 120 05/28/24 13:44

Lab Sample ID: LCS 240-614540/6

Matrix: Water

Analysis Batch: 614540

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	20.0	17.5		ug/L		87	63 - 134	
cis-1,2-Dichloroethene	20.0	18.4		ug/L		92	77 - 123	
Tetrachloroethene	20.0	17.3		ug/L		87	76 - 123	
trans-1,2-Dichloroethene	20.0	18.4		ug/L		92	75 - 124	
Trichloroethene	20.0	18.0		ug/L		90	70 - 122	
Vinyl chloride	20.0	21.4		ug/L		107	60 - 144	

Spike

Added

20.0

20.0

20.0

20.0

20.0

20.0

MSD MSD

17.5

20.4

18.4

20.6

21.8

46.5 F1

ug/L

ug/L

Result Qualifier

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 104 62 - 137 4-Bromofluorobenzene (Surr) 96 56 - 136 Toluene-d8 (Surr) 101 78 - 122 Dibromofluoromethane (Surr) 73 - 120 101

Sample Sample

37 F1

1.0 U

1.0 U

1.0 U

1.7

2.9

Result Qualifier

Lab Sample ID: 240-204929-B-2 MSD

Matrix: Water

1,1-Dichloroethene

Tetrachloroethene

Trichloroethene

Vinyl chloride

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

Analyte

Analysis Batch: 614540

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

%Rec RPD Limit Limits RPD Unit %Rec ug/L 87 56 - 135 26 ug/L 94 66 - 128 14 ug/L 50 62 - 131 20 ug/L 92 56 - 136 15

61 - 124

43 - 157

88

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	96		78 - 122

Eurofins Cleveland

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Job ID: 240-204998-1

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

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

Lab Sample ID: 240-204929-B-2 MSD

Matrix: Water

Analysis Batch: 614540

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

MSD MSD

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 102 73 - 120

Lab Sample ID: 240-204929-C-2 MS

Matrix: Water

Analysis Batch: 614540

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	20.0	17.2		ug/L		86	56 - 135	
cis-1,2-Dichloroethene	1.7		20.0	20.1		ug/L		92	66 - 128	
Tetrachloroethene	37	F1	20.0	50.3		ug/L		69	62 _ 131	
trans-1,2-Dichloroethene	1.0	U	20.0	18.3		ug/L		91	56 - 136	
Trichloroethene	2.9		20.0	21.0		ug/L		91	61 - 124	
Vinyl chloride	1.0	U	20.0	20.4		ug/L		102	43 - 157	

MS MS

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		62 - 137
4-Bromofluorobenzene (Surr)	94		56 - 136
Toluene-d8 (Surr)	99		78 - 122
Dibromofluoromethane (Surr)	103		73 - 120

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

Lab Sample ID: MB 240-614704/6

Matrix: Water

Analysis Batch: 614704

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/29/24 11:20	1

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 85 68 - 127 05/29/24 11:20

Lab Sample ID: LCS 240-614704/4	Client Sample ID: Lab Control Sample
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 614704	

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 9.49 ug/L 95 75 - 121

LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 87

Lab Sample ID: 240-205008-A-2 MS

Ma

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atrix: Water		Prep Type: Total/NA
nalysis Batch: 614704		

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 2.0 U 10.0 9.81 ug/L 98 20 - 180

Eurofins Cleveland

Client Sample ID: Matrix Spike

QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204998-1

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)	89		68 - 127									
– Lab Sample ID: 240-205008	-A-2 MSD						Client	Sample	e ID: Ma	atrix Spik	e Dup	licate
Matrix: Water										Prep Typ	oe: To	tal/NA
Analysis Batch: 614704												
	Sample	Sample	Spike	MSD	MSD				%	Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit) %Re	ec Li	imits	RPD	Limit

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lin
1,4-Dioxane	2.0	U	10.0	10.1		ug/L		101	20 - 180	3	- 2
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								

QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204998-1

GC/MS VOA

Analysis Batch: 614540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204998-1	TRIP BLANK_38	Total/NA	Water	8260D	
240-204998-2	MW-123S_051624	Total/NA	Water	8260D	
MB 240-614540/10	Method Blank	Total/NA	Water	8260D	
LCS 240-614540/6	Lab Control Sample	Total/NA	Water	8260D	
240-204929-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-204929-C-2 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 614704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204998-2	MW-123S_051624	Total/NA	Water	8260D SIM	
MB 240-614704/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-614704/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-205008-A-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-205008-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-204998-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_38

Lab Sample ID: 240-204998-1 Date Collected: 05/16/24 00:00

Matrix: Water

Date Received: 05/22/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	614540	НМВ	EET CLE	05/28/24 20:05

Client Sample ID: MW-123S_051624 Lab Sample ID: 240-204998-2

Date Collected: 05/16/24 15:35 Matrix: Water

Date Received: 05/22/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	614540	НМВ	EET CLE	05/28/24 20:31
Total/NA	Analysis	8260D SIM		1	614704	MDH	EET CLE	05/29/24 16:02

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: 240-204998-1

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 (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	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

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Chain of Custody Record

11/16

<u>TestAmerica</u>

Test	America Labora	tory location:	Brig	hton	- 10448	Citatio	n Driv	e, Suit	te 200	/ Brig	ghton	n, MI 4	8116 /	810-2	29-27	763							THE	LEADER IN ENVIRONMENTAL TES
Client Contact	Regulat	ory program:	:	٢	- DW		-	NPDE	S		RCF	RA	i-	Other										
Arcadis	Client Project N	lanager: Kris	Hinsk	kev			Site	Contac	t: Ch	ristin	a We	aver			lı.	ab Con	tact: N	like De	lMoni	co				estAmerica Laboratories, OC No:
abot Drive, Suite 500	Telephone: 248	-					Total	phone:	249 0	204.22					4	elephor	330	407.0	0.6				_	
ovi. MI. 48377	Telephone: 248	-994-2240													Ľ	eiepnoi	e: 330							1 of 1 COCs
40	Email: kristoffe	er.hinskey@ar	cadis.	.com				Analys	is Tur	MAT.OU	ind T	ime			_		_	- 4	naly	ses			F	or lab use only
	Sampler Name	:	_				TAT	it differe					100	2									v	Talk-in client
rd LTP	 	Hama	1	7246	274		10	0 dav	ا	3 we 2 we			333	4									r	ab sampling
30206169.0401.03	Method of Ship								1	l we			2	Ç		وا	,			SIM				
72	Shipping/Track	ing No:								2 da 1 da	-		Filtered Sample (Y / N)	Composite=C/Grab=G		cis-1,2-DCE 8260D			Vinyl Chloride 8260D	Q00			Je	ob/SDG No:
					fatrix			Contac	D			-	ם	5 8	3	cis-1,2-DCE 8260D			Je 8	1,4-Dloxane 8260D				
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rnal used. Shubble Wrap Foam Plastic Bag None
COOLANT: Wet Lee Dry Ice Waten None Cooler temperature upon receipt See Multiple Cooler Form
r Temp°C Corrected Cooler's Quantity ICAC © No
<i>`</i> €`\$ }```````````````````````````````````
-Were tamper/custody seals intact and uncompromised? Shippers' packing slip attached to the cooler(s)? Yes No NA Yes No NA
Did custody papers accompany the sample(s)?
6 Was/were the person(s) who collected the samples clearly identified on the COC? Tes No
7 Did all bottles arrive in good condition (Unbroken)? 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and san Were correct bottle(s) used for the test(s) indicated?
11 Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC? Yes You
11 yes, Questions 13-17 have been enecked at the originating laboratory 13 Were all preserved sample(s) at the correct pH upon receipt? 14 Were VOAs on the COC?
Contacted PM Date by via Verbal Voice Mail Other
Concerning
18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by
PLE CONDITION Were re
20 SAMPLE PRESERVATION
Sample(s) were further preserved in the laboratory Time preserved Preservative(s) added/Lot number(s)
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WI NC_000_041774 Cooler Receipt Form

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DATA VERIFICATION REPORT



May 31, 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: 204998-1 Sample date: 2024-05-16

Report received by CADENA: 2024-05-31

Initial Data Verification completed by CADENA: 2024-05-31

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.

The following MINOR QC anomalies were identified during verification of the analytical report:

GCMS VOC QC batch MS/MSD recovery outliers were not determined using a client sample so qualification was not required based on these sample-specific QC outliers.

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.

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI $48108\ 517\text{-}819\text{-}0356$

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: 204998-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BL/ 2402049 5/16/20	9981			24			
		oumpte Date.		Report		Valid	5/16/20	Report		Valid
	Analyte	Cas No.	Result	Limit		Qualifier	Result	-		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		0.74	1.0	ug/l	J
OSW-8260	<u>DDSIM</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 # 240-204998-1

CADENA Verification Report: 2024-05-31

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 54329R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-204998-1 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	Parent Sample	VOC	VOC SIM
TRIP BLANK_38	240-204998-1	Water	05/16/2024		Х	
MW-123S_051624	240-204998-2	Water	05/16/2024		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		Х		Х	
Master tracking list		Х		Х	
4. Methods of analysis		Х		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		X	
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.

All identified compounds met the specified criteria.

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: BASHIME

DATE: June 26, 2024

PEER REVIEW: Andrew Korycinski

DATE: June 30, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record





Test	America Labora	itory location:	Brig	hton	1044	8 Citatio	n Driv	/e, S	uite 20	0 / Bri	ightor	n, MI 48	3116 /	810-22	29-2	763					,		71-0	E LEADER IN E	MACRITA	ENTAL TE	STING
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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204998-1 Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_38

Lab Sample ID: 240-204998-1

Date Collected: 05/16/24 00:00 **Matrix: Water** Date Received: 05/22/24 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			05/28/24 20:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/28/24 20:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 20:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/28/24 20:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 20:05	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/28/24 20:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		62 - 137			_		05/28/24 20:05	1
4-Bromofluorobenzene (Surr)	79		56 ₋ 136					05/28/24 20:05	1
Toluene-d8 (Surr)	98		78 - 122					05/28/24 20:05	1
Dibromofluoromethane (Surr)	115		73 - 120					05/28/24 20:05	

Client Sample ID: MW-123S_051624 Lab Sample ID: 240-204998-2

Date Collected: 05/16/24 15:35 Date Received: 05/22/24 08:00

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			05/29/24 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		68 - 127			-		05/29/24 16:02	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/28/24 20:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/28/24 20:31	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 20:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/28/24 20:31	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 20:31	1
Vinyl chloride	0.74	J	1.0	0.45	ug/L			05/28/24 20:31	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		62 - 137	_		05/28/24 20:31	1
4-Bromofluorobenzene (Surr)	86		56 - 136			05/28/24 20:31	1
Toluene-d8 (Surr)	93		78 - 122			05/28/24 20:31	1
Dibromofluoromethane (Surr)	115		73 - 120			05/28/24 20:31	1

Matrix: Water