ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/17/2023 8:18:19 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-181757-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Canton

Job Notes

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Authorization

Generated 3/17/2023 8:18:19 AM

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

Eurofins Canton is a laboratory within Eurofins Environment Testing North Central, LLC, a company within Eurofins Environment Testing Group of Companies

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-181757-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-181757-1

Project/Site: Ford LTP - Off Site

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.

Job ID: 240-181757-1

Project/Site: Ford LTP - Off Site

Job ID: 240-181757-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-181757-1

Receipt

The samples were received on 3/11/2023~8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3° C

GC/MS VOA

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

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Method Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-181757-1

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

Protocol References:

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

Laboratory References:

EET CAN = Eurofins Canton, 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 - Off Site

Job ID: 240-181757-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-181757-1	TRIP BLANK_8	Water	03/08/23 00:00	03/11/23 08:00
240-181757-2	MW-110S_030823	Water	03/08/23 11:05	03/11/23 08:00

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Detection Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181757-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_8 Lab Sample ID: 240-181757-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181757-1

Project/Site: Ford LTP - Off Site

Date Received: 03/11/23 08:00

Client Sample ID: TRIP BLANK_8

Lab Sample ID: 240-181757-1 Date Collected: 03/08/23 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/14/23 14:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/14/23 14:29	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/14/23 14:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/14/23 14:29	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/14/23 14:29	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/14/23 14:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			-		03/14/23 14:29	1
4-Bromofluorobenzene (Surr)	86		56 ₋ 136					03/14/23 14:29	1
Toluene-d8 (Surr)	93		78 - 122					03/14/23 14:29	1
Dibromofluoromethane (Surr)	93		73 - 120					03/14/23 14:29	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181757-1

Project/Site: Ford LTP - Off Site

Date Received: 03/11/23 08:00

Client Sample ID: MW-110S_030823

Lab Sample ID: 240-181757-2 Date Collected: 03/08/23 11:05

Matrix: Water

Method: SW846 8260D SIM - \	volatile Organic C	ompounas	(GC/NIS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/17/23 03:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4 (Surr)			66 - 120			-		03/17/23 03:07	

-	O,		00 - 120					00/11/20 00.01	,
Method: SW846 8260D - Volatil	le 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			03/14/23 17:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/14/23 17:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/14/23 17:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/14/23 17:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/14/23 17:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/14/23 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			-		03/14/23 17:49	1
4-Bromofluorobenzene (Surr)	88		56 ₋ 136					03/14/23 17:49	1
Toluene-d8 (Surr)	93		78 - 122					03/14/23 17:49	1
Dibromofluoromethane (Surr)	102		73 - 120					03/14/23 17:49	1

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-181757-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

_ 				Percent Sui	rogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-181757-1	TRIP BLANK_8	105	86	93	93
240-181757-2	MW-110S_030823	107	88	93	102
240-181761-F-2 MS	Matrix Spike	106	85	92	97
240-181761-I-2 MSD	Matrix Spike Duplicate	103	88	92	96
LCS 240-565310/5	Lab Control Sample	107	92	97	100
MB 240-565310/8	Method Blank	110	90	95	97
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	(66-120)	
240-181757-2	MW-110S_030823	87	
240-181761-B-2 MS	Matrix Spike	95	
240-181761-E-2 MSD	Matrix Spike Duplicate	89	
LCS 240-565713/4	Lab Control Sample	81	
MB 240-565713/6	Method Blank	76	
Surrogate Legend			

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

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Job ID: 240-181757-1

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-565310/8

Matrix: Water

Analysis Batch: 565310

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 03/14/23 13:39 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 03/14/23 13:39 1.0 U 03/14/23 13:39 Tetrachloroethene 1.0 0.44 ug/L trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 03/14/23 13:39 Trichloroethene 1.0 U 1.0 0.44 ug/L 03/14/23 13:39 Vinyl chloride 1.0 U 1.0 03/14/23 13:39 0.45 ug/L

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		62 - 137		03/14/23 13:39	1
4-Bromofluorobenzene (Surr)	90		56 - 136		03/14/23 13:39	1
Toluene-d8 (Surr)	95		78 - 122		03/14/23 13:39	1
Dibromofluoromethane (Surr)	97		73 - 120		03/14/23 13:39	1

Lab Sample ID: LCS 240-565310/5

Matrix: Water

Analysis Batch: 565310

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	17.6		ug/L		88	63 - 134	
cis-1,2-Dichloroethene	20.0	18.6		ug/L		93	77 - 123	
Tetrachloroethene	20.0	20.7		ug/L		103	76 - 123	
trans-1,2-Dichloroethene	20.0	19.9		ug/L		100	75 - 124	
Trichloroethene	20.0	20.1		ug/L		100	70 - 122	
Vinyl chloride	20.0	21.8		ug/L		109	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		62 _ 137
4-Bromofluorobenzene (Surr)	92		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

Lab Sample ID: 240-181761-F-2 MS

Matrix: Water

Analysis Batch: 565310

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

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec 1,1-Dichloroethene 1.0 U 20.0 16.6 ug/L 83 56 - 135 cis-1,2-Dichloroethene 1.0 U 20.0 17.0 ug/L 85 66 - 128 Tetrachloroethene 1.0 U 20.0 18.6 ug/L 93 62 - 131trans-1,2-Dichloroethene 1.0 U 20.0 18.4 ug/L 92 56 - 136 Trichloroethene 1.0 U 20.0 18.5 ug/L 92 61 - 124 Vinyl chloride 20.0 20.8 43 - 157 1.0 U ug/L

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		62 - 137
4-Bromofluorobenzene (Surr)	85		56 - 136
Toluene-d8 (Surr)	92		78 - 122

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Client: ARCADIS U.S., Inc.

Job ID: 240-181757-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 240-181761-F-2 MS

Matrix: Water

Analysis Batch: 565310

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

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

Lab Sample ID: 240-181761-I-2 MSD

Matrix: Water

Analysis Batch: 565310

Client Sample ID: Matrix 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	20.0	16.5		ug/L		82	56 - 135	1	26
cis-1,2-Dichloroethene	1.0	U	20.0	17.1		ug/L		86	66 - 128	1	14
Tetrachloroethene	1.0	U	20.0	19.0		ug/L		95	62 - 131	2	20
trans-1,2-Dichloroethene	1.0	U	20.0	18.4		ug/L		92	56 - 136	0	15
Trichloroethene	1.0	U	20.0	17.7		ug/L		89	61 - 124	4	15
Vinyl chloride	1.0	U	20.0	21.5		ug/L		107	43 - 157	3	24

MSD MSD

MR MR

2.0 U

Result Qualifier

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	88		56 - 136
Toluene-d8 (Surr)	92		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

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

Lab Sample ID: MB 240-565713/6

Matrix: Water

Analyte

1,4-Dioxane

Analysis Batch: 565713

Client Sample ID: Method Blank Prep Type: Total/NA

Dil Fac Prepared Analyzed

03/16/23 23:53

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 76 66 - 120 03/16/23 23:53

RL

2.0

MDL Unit

0.86 ug/L

Lab Sample ID: LCS 240-565713/4

Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Analysis Batch: 565713

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 10.0 10.8 ug/L 108 80 - 122

LCS LCS

Result Qualifier

%Recovery Qualifier Limits Surrogate 1,2-Dichloroethane-d4 (Surr) 66 - 120 81

Lab Sample ID: 240-181761-B-2 MS

Analyte

Lab Sample ID: 240-181761-B-2 MS				Client Sample ID: Matrix Spike
Matrix: Water				Prep Type: Total/NA
Analysis Batch: 565713				
	Sample Sample	Spike	MS MS	%Rec

Result Qualifier

Unit

1,4-Dioxane 2.0 U 10.0 13.6 ug/L 136 51 - 153

Added

Eurofins Canton

Limits

%Rec

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181757-1

Project/Site: Ford LTP - Off Site

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

%Recovery Qualifier

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	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		66 - 120

_				
Lab Sample	ID:	240-18	1761-E-2	2 MSD

Matrix: Water

Surrogate

1,2-Dichloroethane-d4 (Surr)

	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	13.4		ug/L		134	51 - 153	1	16
	MSD	MSD									

Limits

66 - 120

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181757-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 565310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-181757-1	TRIP BLANK_8	Total/NA	Water	8260D	
240-181757-2	MW-110S_030823	Total/NA	Water	8260D	
MB 240-565310/8	Method Blank	Total/NA	Water	8260D	
LCS 240-565310/5	Lab Control Sample	Total/NA	Water	8260D	
240-181761-F-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-181761-I-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 565713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-181757-2	MW-110S_030823	Total/NA	Water	8260D SIM	
MB 240-565713/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-565713/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-181761-B-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-181761-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-181757-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_8

Lab Sample ID: 240-181757-1 Date Collected: 03/08/23 00:00

Matrix: Water

Date Received: 03/11/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	565310	TES	EET CAN	03/14/23 14:29

Client Sample ID: MW-110S_030823 Lab Sample ID: 240-181757-2

Date Collected: 03/08/23 11:05 Matrix: Water

Date Received: 03/11/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	565310	TES	EET CAN	03/14/23 17:49
Total/NA	Analysis	8260D SIM		1	565713	BAJ	EET CAN	03/17/23 03:07

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181757-1

Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Canton

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	02-27-23 *
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-27-23 *
Illinois	NELAP	200004	07-31-23
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23 *
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-23 *
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-27-23 *
Ohio VAP	State	CL0024	02-27-23 *
Oregon	NELAP	4062	02-28-24
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

 $^{^{\}star}\,\text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

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MICHIGAN 190		Chain of Custody Record	6350 000	TestAmerica
	Regulatory Drogram:	NPDES RCRA Other	5017-57	THE LEADER IN ENVIRONMENTAL PERTINS
Company Name: Arcadis			_	TestAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	COC No:
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Telephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	
CHY/SHRE(ZAP: NOVI, MII, 463 //	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	for lab use only
rnone: 446-594-2240 Project Name: Ford LTP Off-Site	Sampler Name:	cut from b		Walk-in client
Project Number: 30167538.402.04	Method of Shipment/Carrier:	(N	1	Lab sampling
PO#30167538,402.04	Shipping/Tracking No:	- Grab	8560B	Job/SDG No:
	Matrix	Operation of the Continue of t	, 2-DCE 88608 82608 82608 1 Chloride	Sample Specific Notes /
	Sample Date Sample Time Air Aquer Solid	Con	Cis-1	Special Instructions:
TRIP BLANK_ &	3/8/23 1	(D) Z	× × × × × ×	1 Trip Blank
mw-1105 030823	318113 1105	2 2	**************************************	3 VOAs for 8260B 3 VOAs for 8260B SIM
			240-101757 Chain of Custody	
Possible Hazard Identification V Non-Hazard	ritant Poison B Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than I Return to Client Disposal By Lab Archive For	amples are retained forger than I month) ab	
Special Instructions/QC Requirements & Comments: Sample Address: Submit all results through Cadena at formalia@cadenaco.com. Cadena #E203831	850 3	Fandish St		
eporting requested.				
Relinquistre by Relinquistre by Relinquistre by	Date/Time: 2/9/23 Date/Time: 2 / 10/12	5733 Received by:	Dras Company:	Date 7 mm: 2 0123
Relinquished by:	DateT	() Receiped in abordioriby /	LBL Company	11-23
2000. Teachmetra Librarative Prc. All rights meaned anomaries, Prc. restriction and confine meaned anomaries, Prc.				

Eurofins - Canton Sample Receipt Form/Narrative Barberton Facility	Login #:_		
Client Arcadl Site Name		Cooler unpac	ked,by;
Cooler Received on 3-11-23 Opened on 3-11	1-23	Man	Lely
	Eurofins Courier Oth	ner / / / / / / /	The state of the s
Receipt After-hours: Drop-off Date/Time	Storage Location	101	
	ox Other		
Packing material used: Bubble Wap Foam Plastic Bag	None Other		_
COOLANT: Wet Ice Blue Ice Dry Ice Water			
1. Cooler temperature upon receipt IR GUN # IR-13 (CF -0.2 °C) Observed Cooler Temp.	See Multiple Cooler For °C Corrected Cooler ?		
IR GUN # IR-16 (CF -0.1°C) Observed Cooler Temp	°C Corrected Cooler		
IR GUN # IR-17 (CF -0.3°C) Observed Cooler Temp.	_°C Corrected Cooler		
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes	Ouantity (%)	No F	
-Were the seals on the outside of the cooler(s) signed & dated?	Ne	No NA	Tests that are not checked for pH by
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg		(N)	Receiving:
-Were tamper/custody seals intact and uncompromised?	Yes	No NA	
3. Shippers' packing slip attached to the cooler(s)?	Yes		VOAs Oil and Grease
4. Did custody papers accompany the sample(s)?5. Were the custody papers relinquished & signed in the appropriate	mlace? Yes	140	roc
6. Was/were the person(s) who collected the samples clearly identified	•	No	
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No	
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC	??	No	\wedge
9. For each sample, does the COC specify preservatives (Ý/N), # of c	containers (Y/N), and sa	mple type of grab	o/comp(Y/N)?
10. Were correct bottle(s) used for the test(s) indicated?	Yes	No	
11. Sufficient quantity received to perform indicated analyses?	Yes .	No.	
12. Are these work share samples and all listed on the COC? If yes, Questions 13-17 have been checked at the originating labor	Yes	(3)	
13. Were all preserved sample(s) at the correct pH upon receipt?	•	No NA pHS	trip Lot# HC293086
14. Were VOAs on the COC?	Kas	No No	uip Loin Heaveou
15. Were air bubbles >6 mm in any VOA vials? Larger th			
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_		No	
17. Was a LL Hg or Me Hg trip blank present?	Yes	No)	
Contacted PM Date by	via Verbal V	oice Mail Other	
Concerning			
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	additional next page	Samples process	sed by:
	additional next page	Samples process	sed by.
19. SAMPLE CONDITION			
Sample(s) were received after	the recommended holdin	ng time had expir	ed.
Sample(s)	were received	in a broken conta	iner.
Sample(s) were receive	ed with bubble >6 mm in	diameter. (Notif	y PM)
20. SAMPLE PRESERVATION			
Sample(s)	were fire	ther preserved in t	the laboratory
Sample(s)Preservative(s) added/Lot number(s):_	were full	mer preserved in	
VOA Sample Preservation - Date/Time VOAs Frozen:			

DATA VERIFICATION REPORT



March 20, 2023

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631

Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater

Project number: 30167538.402.04 off-site

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

Laboratory submittal: 181757-1 Sample date: 2023-03-08

Report received by CADENA: 2023-03-20

Initial Data Verification completed by CADENA: 2023-03-20

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: E203631

Laboratory: Eurofins Environment Testing LLC - Barberton

Laboratory Submittal: 181757-1

		Sample Name: Lab Sample ID: Sample Date:	ab Sample ID: 2401817571				MW-110 2401817 3/8/202	- 7572	30823		
				Report				Report			
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	
GC/MS VOC OSW-8260	nn										
<u>03W 0200</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>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 # 240-181757-1

CADENA Verification Report: 2023-03-20

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49122R Review Level: Tier III Project: 30167538.601.01

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-181757-1 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 Collection		Ana	lysis
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM
TRIP BLANK_8	240-181757-1	Water	03/08/23		Х	
MW-110S_030823	240-181757-2	Water	03/08/23		Х	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance ptable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
2. Requested analyses and sample results		X		X	
Master tracking list		Х		Х	
4. Methods of analysis		Х		Х	
5. Reporting limits		Х		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	Perfo Acce	Not	
	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	
lon 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		Х		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: Hrishikesh Upadhyaya

SIGNATURE:

DATE: March 28, 2023

PEER REVIEW: Andrew Korycinski

DATE: March 28, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190

Chain of Custody Record



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

Client Contact	Regulat	ory program:		1	DV	V		NPDE	S	- 5	RC	RA	Г	Ot	her							-				
Company Name: Arcadis							100																			TestAmerica Laboratories, In
Address: 28550 Cabot Drive, Suite 500	Client Project!	Manager: Kris	Hinsk	ev			Site Contact: Christina Weaver					Lab Contact: Mike DelMonico							COC No:							
	Telephone: 248	-994-2240					Telephone: 248-994-2240					Telephone: 330-497-9396														
City/State/Zip: Novi, MI, 48377	Email: kristoff	er.hinskey@ar	cadis	com		-	Analysis Turnaround Time					Analyses					\dashv	1 of 1 COCs For lab use only								
Phone: 248-994-2240														П						T	T				$\neg 1$	
Project Name: Ford LTP Off-Site	Sampler Name		C		ch	10-	TAT if different from below 3 weeks													1 1		Walk-in client				
	Sama	MANA	<u> </u>	200	101	ller	10	day	-	2 1	veeks															Lab sampling
Project Number: 30167538.402.04	Method of Ship	Method of Shipment/Carrier:			ı			- 1 v			Z	Y			8			m	SIM	1		1				
PO # 30167538.402.04	Shipping/Tracking No:					-	16	lay		mole (Y / N)	C/Grai	8	82608	SE 826			e 8260B	82608					Job/SDG No:			
				9	Solid	Orher:		Conta	T	& Pre	Т	T	Fiftered Sam	osite	1.1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride	1,4-Dioxane					Sample Specific Notes / Special Instructions:
Sample Identification	Sample Date	Sample Time	₹	۶ (Solid	δ	≘		2 3	2 2	1 5	ğ	12	ပိ	=	S. S.	T _{ra}	2	유	Ş	4.					operations.
TRIP BLANK_ &	3/8/23			1				1	1				N	1 G	X	X	X	X	X	X						1 Trip Blank
mw-1105_030823	318123	1105		6				6	0				N	6	X	X	X	X	1	1	X					3 VOAs for 8260B 3 VOAs for 8260B SIM
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3,0,0	1,100					\Box	1	\dagger	\top	+		+	1				,								3 VOAS IOI 6260B SIIVI
				+	1		H	1	T	\dagger	\dagger		\dagger	T							\vdash	T		\Box		
			H	+	+		Н		†	+	+		+	+						\vdash		+		\vdash		
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Possible Hazard Identification Non-Hazard Flammable Skin Iri	ritant Poisc	n B	Unkr	nown			Sa			to Cli					if sam By Lab			ned lo		than I		h) Aonths				
Special Instructions/QC Requirements & Comments: Sample Address:		34	18	50)	Sto	20					S														
Submit all results through Cadena at jtomalia@cadena	co.com, Cadena #	E203631				01		-				0	'													
Level IV Reporting requested.	In .								-																	
Relinquished by All Apell	Company:	dis		Date/T	73	3 D	13	3		N/C	INC	a	DIC	(8	50	ro	RC	_ نـ	f	pany:	a	di	5			Date/Time: 318123 0133
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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181757-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_8

Lab Sample ID: 240-181757-1 Date Collected: 03/08/23 00:00 **Matrix: Water**

Date Received: 03/11/23 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			03/14/23 14:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/14/23 14:29	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/14/23 14:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/14/23 14:29	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/14/23 14:29	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/14/23 14:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			-		03/14/23 14:29	1
4-Bromofluorobenzene (Surr)	86		56 ₋ 136					03/14/23 14:29	1
Toluene-d8 (Surr)	93		78 - 122					03/14/23 14:29	1
Dibromofluoromethane (Surr)	93		73 - 120					03/14/23 14:29	1

Client Sample ID: MW-110S_030823

Date Collected: 03/08/23 11:05

1,4-Dioxane

Date Collected: 03/08/23 11: Date Received: 03/11/23 08:					Matri	x: Water
Method: SW846 8260D SIN	1 - Volatile Organic Compou	nds (GC/M	S) MDI Unit	Prepared	Analyzed	Dil Fac

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 66 - 120 03/17/23 03:07 87

2.0

0.86 ug/L

2.0 U

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/14/23 17:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/14/23 17:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/14/23 17:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/14/23 17:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/14/23 17:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/14/23 17:49	1

Surrogate	%Recovery Qualifier	Limits	Prepared Anal	yzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107	62 - 137	03/14/2	3 17:49	1
4-Bromofluorobenzene (Surr)	88	56 - 136	03/14/2	3 17:49	1
Toluene-d8 (Surr)	93	78 - 122	03/14/2	3 17:49	1
Dibromofluoromethane (Surr)	102	73 - 120	03/14/2	3 17:49	1

Lab Sample ID: 240-181757-2

03/17/23 03:07