PREPARED FOR

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

Generated 3/15/2023 10:11:38 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-181387-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Canton

Job Notes

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Authorization

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

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Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-181387-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-181387-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA
Qualifier Qualifier Description

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/Site: Ford LTP - Off Site

Job ID: 240-181387-1

Job ID: 240-181387-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-181387-1

Receipt

The samples were received on 3/4/2023 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 2.3°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: 240-181387-1

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: 240-181387-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-181387-1	TRIP BLANK_85	Water	03/02/23 00:00	03/04/23 08:00
240-181387-2	MW-159S 030223	Water	03/02/23 13:20	03/04/23 08:00

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Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-181387-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_85 Lab Sample ID: 240-181387-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181387-1

Project/Site: Ford LTP - Off Site

Date Received: 03/04/23 08:00

Client Sample ID: TRIP BLANK_85

Lab Sample ID: 240-181387-1 Date Collected: 03/02/23 00:00

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier Analyte RLMDL Unit Prepared Analyzed Dil Fac 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 03/10/23 17:01 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 03/10/23 17:01 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 03/10/23 17:01 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 03/10/23 17:01 Trichloroethene 1.0 U 1.0 0.44 ug/L 03/10/23 17:01 Vinyl chloride 1.0 U 1.0 0.45 ug/L 03/10/23 17:01

Surrogate	%Recovery Quali	lifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107	62 - 137		03/10/23 17:01	1
4-Bromofluorobenzene (Surr)	86	56 - 136		03/10/23 17:01	1
Toluene-d8 (Surr)	90	78 - 122		03/10/23 17:01	1
Dibromofluoromethane (Surr)	96	73 - 120		03/10/23 17:01	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181387-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-159S_030223

Date Collected: 03/02/23 13:20

Lab Sample ID: 240-181387-2 Matrix: Water

Date Received: 03/04/23 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			03/10/23 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			66 - 120			_		03/10/23 18:15	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/10/23 18:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/10/23 18:16	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/10/23 18:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/10/23 18:16	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/10/23 18:16	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/10/23 18:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2 Diablaraothana d4 (Surr)			62 127			-		02/10/22 10:16	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110	62 - 137		03/10/23 18:16	1
4-Bromofluorobenzene (Surr)	89	56 ₋ 136		03/10/23 18:16	1
Toluene-d8 (Surr)	92	78 - 122		03/10/23 18:16	1
Dibromofluoromethane (Surr)	99	73 - 120		03/10/23 18:16	1

3/15/2023

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181387-1

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)
240-181309-O-6 MS	Matrix Spike	105	87	92	95
240-181309-P-6 MSD	Matrix Spike Duplicate	106	91	92	98
240-181387-1	TRIP BLANK_85	107	86	90	96
240-181387-2	MW-159S_030223	110	89	92	99
LCS 240-564964/5	Lab Control Sample	106	91	95	94
MB 240-564964/8	Method Blank	110	84	94	99

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)	
240-181387-2	MW-159S_030223	87	
240-181395-D-3 MSD	Matrix Spike Duplicate	88	
240-181395-E-3 MS	Matrix Spike	78	
LCS 240-564955/4	Lab Control Sample	86	
MB 240-564955/6	Method Blank	84	

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

Job ID: 240-181387-1

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

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

Lab Sample ID: MB 240-564964/8

Matrix: Water

Analysis Batch: 564964

Client Sar	nple ID: Method Blar	ık
	Pren Tyne: Total/N	Δ

	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			03/10/23 14:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/10/23 14:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/10/23 14:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/10/23 14:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/10/23 14:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/10/23 14:30	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 03/10/23 14:30 110 4-Bromofluorobenzene (Surr) 84 56 - 136 03/10/23 14:30 Toluene-d8 (Surr) 94 78 - 122 03/10/23 14:30 Dibromofluoromethane (Surr) 99 73 - 120 03/10/23 14:30

Lab Sample ID: LCS 240-564964/5

Matrix: Water

Analysis Batch: 564964

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	17.2		ug/L		86	63 - 134	
cis-1,2-Dichloroethene	20.0	17.9		ug/L		89	77 - 123	
Tetrachloroethene	20.0	20.1		ug/L		100	76 - 123	
trans-1,2-Dichloroethene	20.0	19.0		ug/L		95	75 - 124	
Trichloroethene	20.0	18.4		ug/L		92	70 - 122	
Vinyl chloride	20.0	18.0		ug/L		90	60 - 144	
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LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 106 62 - 137 4-Bromofluorobenzene (Surr) 56 - 136 91 Toluene-d8 (Surr) 95 78 - 122 73 - 120 Dibromofluoromethane (Surr) 94

Lab Sample ID: 240-181309-O-6 MS

Matrix: Water

Analysis Batch: 564964

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	16.1		ug/L		80	56 - 135	-
cis-1,2-Dichloroethene	1.0	U	20.0	17.3		ug/L		86	66 - 128	
Tetrachloroethene	1.0	U	20.0	18.4		ug/L		92	62 - 131	
trans-1,2-Dichloroethene	1.0	U	20.0	18.4		ug/L		92	56 - 136	
Trichloroethene	1.0	U	20.0	16.8		ug/L		84	61 - 124	
Vinyl chloride	1.0	U	20.0	16.6		ug/L		83	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		62 - 137
4-Bromofluorobenzene (Surr)	87		56 - 136
Toluene-d8 (Surr)	92		78 - 122

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Client: ARCADIS U.S., Inc.

Job ID: 240-181387-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 240-181309-O-6 MS

Matrix: Water

Analysis Batch: 564964

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 95 73 - 120

Lab Sample ID: 240-181309-P-6 MSD

Matrix: Water

Analysis Batch: 564964

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	16.0		ug/L		80	56 - 135	1	26
cis-1,2-Dichloroethene	1.0	U	20.0	16.6		ug/L		83	66 - 128	4	14
Tetrachloroethene	1.0	U	20.0	17.9		ug/L		89	62 - 131	3	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	17.2		ug/L		86	61 - 124	2	15
Vinyl chloride	1.0	U	20.0	17.4		ug/L		87	43 - 157	5	24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		62 - 137
4-Bromofluorobenzene (Surr)	91		56 - 136
Toluene-d8 (Surr)	92		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

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

Lab Sample ID: MB 240-564955/6

Matrix: Water

Analysis Batch: 564955

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

Limits

80 - 122

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 03/10/23 12:35

MB MB

MR MR

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 84 66 - 120 03/10/23 12:35

Lab Sample ID: LCS 240-564955/4

Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Analysis Batch: 564955 Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit D %Rec 1,4-Dioxane 10.0 11.9 ug/L 119 LCS LCS

%Recovery Qualifier Limits Surrogate 1,2-Dichloroethane-d4 (Surr) 66 - 120 86

Lab Sample ID: 240-181395-D-3 MSD

Matrix: Water

Analysis Batch: 564955

C	lient Sample	e ID: Ma	atrix Sp	oike Dupl	icate
			Prep T	vpe: Tota	al/NA

-	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	12.4		ug/L		124	51 - 153	7	16

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QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181387-1

Project/Site: Ford LTP - Off Site

1,2-Dichloroethane-d4 (Surr)

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

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	MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	88		66 - 120							
Lab Sample ID: 240-181395	5-E-3 MS							Client	Sample ID: Ma	atrix Spike
Matrix: Water									Prep Type	e: Total/NA
Analysis Batch: 564955										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	11.6		ug/L		116	51 - 153	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

66 - 120

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181387-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 564955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-181387-2	MW-159S_030223	Total/NA	Water	8260D SIM	
MB 240-564955/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-564955/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-181395-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
240-181395-E-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	

Analysis Batch: 564964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-181387-1	TRIP BLANK_85	Total/NA	Water	8260D	
240-181387-2	MW-159S_030223	Total/NA	Water	8260D	
MB 240-564964/8	Method Blank	Total/NA	Water	8260D	
LCS 240-564964/5	Lab Control Sample	Total/NA	Water	8260D	
240-181309-O-6 MS	Matrix Spike	Total/NA	Water	8260D	
240-181309-P-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-181387-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_85

Lab Sample ID: 240-181387-1 Date Collected: 03/02/23 00:00

Matrix: Water

Date Received: 03/04/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	564964	SAM	EET CAN	03/10/23 17:01

Client Sample ID: MW-159S_030223 Lab Sample ID: 240-181387-2

Date Collected: 03/02/23 13:20 Matrix: Water

Date Received: 03/04/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	564964	SAM	EET CAN	03/10/23 18:16
Total/NA	Analysis	8260D SIM		1	564955	BAJ	EET CAN	03/10/23 18:15

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: 240-181387-1

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
lowa	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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The color of the	Client Contact	Regula	Regulatory program:	L	DW	NPDES	RCRA	Other	ther							
The BLANK State Continued Continue	Company Name: Arcadis									5		1			Tes	tAmerica Laboratories,
Tright 1 1 1 1 1 1 1 1 1	Address: 28550 Cabot Drive, Suite 500	Client Project	Manager: Kris I	linskey		Site Contact	: Christina Weaver			Lab Con	tact: Mik	e DelMo	unico		<u> </u>	C No:
TRIP BLANK_ & S. Sample Headlife clients and the state of	City/State/Zip: Novl. MI 48377	Telephone: 24	-994-2240			Telephone:	248-994-2240			Telepho	ne: 330-4	97-9396				-
This Description This		Email: kristof	er.hinskey@arc	adis.com		Analysis	Turnaround Time		Ц	$\ \cdot \ $		Ana	ivses		For	
Note Note Ford Life Ord State Note	Phone: 248-994-2240									_						
TRIP BLANK 25 10 20 2 2 3 10 20 2 10	Project Name: Ford LTP Off-Site	Sampler Name	" (u+r.		Jugar C	TAT if differen	from below 3 weeks 2 weeks								We.	k-in client sampling
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TRIP BLANK SS	Sample Identification	Sample Date		Aqueous		EONH	VaOH Noon Noon Sinpres				-		_			Sample Specific Notes / Special Instructions:
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TestAmerica

Chain of Custody Record

via Verbal Voice Mail Other

18. CHAIN OF CUSTODY & SAMPLE DI	SCREPANCIES addition	nal next page	Samples processed by:
	···		
9. SAMPLE CONDITION			
	were received after the reco	mmended hold	ding time had expired.
Sample(s)			
19. SAMPLE CONDITION Sample(s) Sample(s) Sample(s)		were receive	d in a broken container.
Sample(s)Sample(s)		were receive	d in a broken container.
Sample(s)Sample(s)Sample(s)	were received with b	_ were receive pubble >6 mm were fu	d in a broken container. in diameter. (Notify PM)

by

17. Was a LL Hg or Me Hg trip blank present?

Date

Contacted PM

Concerning

WI-NC-099

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DATA VERIFICATION REPORT



March 16, 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: 181387-1 Sample date: 2023-03-02

Report received by CADENA: 2023-03-16

Initial Data Verification completed by CADENA: 2023-03-16

Number of Samples:2

Sample Matrices: Water and trip blank

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 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: E203631

Laboratory: Eurofins Environment Testing LLC - Barberton

Laboratory Submittal: 181387-1

	Sample Name:	TRIP BLA	NK_85			MW-159	9S_0302	23	
	Lab Sample ID:	2401813	3871			2401813	3872		
	Sample Date:	3/2/202	3			3/2/202	3		
			Report		Valid		Report		Valid
Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC									
OSW-8260D									
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	
<u>OSW-8260DSIM</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 # 240-181387-1

CADENA Verification Report: 2023-03-16

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49073R Review Level: Tier III Project: 30167538.601.01

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-181387-1 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_85	240-181387-1	Water	03/02/23		Х	
MW-159S_030223	240-181387-2	Water	03/02/23		X	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 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 eptable	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: Dilip Kumar

SIGNATURE:

DATE: March 27, 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

<u>TestAmerica</u>

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

Client Contact	Regulat	ory program	:	Γ.	DW			NPD	ES		F F	CRA	Γ	Otl	her											
Company Name: Arcadis	Client Project N	Janagari Kula	Uinel	-			Sie.	Cont	acti ('h-ie	elna l	Weaver				Pl ab	Conta	ods BAI	ka Da	Mont						TestAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500			minsk	.ey																	0					LOC No:
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240							e: 248							Tele	phone	330-								1 of 1 COCs
Phone: 248-994-2240	Email: kristoff	er.hinskey@ ar	cadis.	com			-	Analy	ysis I	urna	roun	Time		T	\vdash	_			A	naly	es				\dashv	For lab use only
	Sampler Name				1	1.0	TAT	if diffe	erent fro																- 1	Walk-in client
Project Name: Ford LTP Off-Site		lut (.	UK	Cu	hug	11	10	0 day	,		wee wee														- 1	Lab sampling
Project Number: 30167538.402.04	Method of Ship	ment/Carrier:									l week		Z	Y			88				SIM				- 1	
PO # 30167538.402.04	Shipping/Track	ing No:					1			F 1			ple (Y / N)	C/Grab	_	809	82608			3260	809					Joh/SDG No:
				M	atrix			Cont	ainers	& P	reserv	atives		Ιò	260	E 82	DO	8	60	ide	e 82				- 1	
		Sample Time		Aqueous	Solid	Other:	H2SO4	HN03	HCI	NaOH	ZaAc NeOH	Umpres Other:	Filtered S	Composit	1.1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE	PCE 8260B	TCE 8260B	Vinyl Chloride 8260B	1,4-Dioxane 8260B SIM					Sample Specific Notes / Special Instructions:
Sample Identification	Sample Date	Sample Time	<		Š	•	F	=	Ξļ	Ž,	3 2	5 6	-	+	1	Ğ	F	ă	Ĕ	>					-	
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Possible Hazard Identification Non-Hazard Flammable Skin Irrit	tant Poiso	n B	Unki	nown			Sa		e Disp			ee may b	e asse: Dispo					ined le				h)				
Special Instructions/QC Requirements & Comments:							_								,											
Sample Address: 34920 B-0.WN Submit all results through Cadena at jtomalia@cadenac	o.com. Cadena #	E203631																								
Level IV Reporting requested. Relinquished by:	Commonus	1		Data/Ti	***				In	3i									Io:							F) - FD:
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Relinquished by:	Company:	A		Date/Ti	me:	3 1	a :	41	0	Rece	y on	a Labora	atory I	by:	-		-		Com	Jan y						Date/Time: 8:00

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181387-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_85

Date Collected: 03/02/23 00:00 Date Received: 03/04/23 08:00 Lab Sample ID: 240-181387-1

Lab Sample ID: 240-181387-2

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			03/10/23 17:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/10/23 17:01	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/10/23 17:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/10/23 17:01	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/10/23 17:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/10/23 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			-		03/10/23 17:01	1
4-Bromofluorobenzene (Surr)	86		56 ₋ 136					03/10/23 17:01	1
Toluene-d8 (Surr)	90		78 - 122					03/10/23 17:01	1
Dibromofluoromethane (Surr)	96		73 - 120					03/10/23 17:01	1

Client Sample ID: MW-159S_030223

Date Collected: 03/02/23 13:20

Date Received: 03/04/23 08:00

03/02/23 13:20	Matrix: Water
03/04/23 08:00	

Method: SW846 8260D SIM	 Volatile Orga 	anic Comp	ounds (GC/M	IS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/10/23 18:15	1
Surrogate	%Recovery	Qualifier	Limits			-	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		66 - 120					03/10/23 18:15	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/10/23 18:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/10/23 18:16	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/10/23 18:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/10/23 18:16	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/10/23 18:16	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/10/23 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	110		62 - 137		03/10/23 18:16	1	
4-Bromofluorobenzene (Surr)	89		56 - 136		03/10/23 18:16	1	
Toluene-d8 (Surr)	92		78 - 122		03/10/23 18:16	1	
Dibromofluoromethane (Surr)	99		73 - 120		03/10/23 18:16	1	

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