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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 5/31/2023 10:13:22 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-185632-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

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Authorization

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Generated 5/31/2023 10:13:22 AM

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Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-185632-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-185632-1

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.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CELL	Colony Forming Unit

CFU Colony Forming Unit
CNF Contains No Free Liquid
DER Duplicate Error Ratio (no

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 US Inc

Job ID: 240-185632-1

Project/Site: Ford LTP - Off Site

Job ID: 240-185632-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-185632-1

Receipt

The samples were received on 5/19/2023~8:00 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 0.8° C and 1.8° 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 US Inc
Project/Site: Ford LTP - Off Site

Job ID: 240-185632-1

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

Protocol References:

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

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - Off Site

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-185632-1	TRIP BLANK_123	Water	05/17/23 00:00	05/19/23 08:00
240-185632-2	MW-173S_051723	Water	05/17/23 14:55	05/19/23 08:00

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Job ID: 240-185632-1

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Detection Summary

Client: ARCADIS US Inc Job ID: 240-185632-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_123 Lab Sample ID: 240-185632-1

No Detections.

Client Sample ID: MW-173S_051723 Lab Sample ID: 240-185632-2

No Detections.

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-185632-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_123

Lab Sample ID: 240-185632-1 Date Collected: 05/17/23 00:00

Matrix: Water Date Received: 05/19/23 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			05/26/23 12:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/23 12:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 12:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/23 12:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 12:36	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/23 12:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 128			_		05/26/23 12:36	1
Dibromofluoromethane (Surr)	94		77 - 124					05/26/23 12:36	1
Toluene-d8 (Surr)	105		80 - 120					05/26/23 12:36	1
4-Bromofluorobenzene	90		76 - 120					05/26/23 12:36	1

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-185632-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-173S_051723

Date Collected: 05/17/23 14:55

Date Received: 05/19/23 08:00

Lab Sample ID: 240-185632-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/23/23 22:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		75 - 133			_		05/23/23 22:31	1

_									
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/26/23 15:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/23 15:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 15:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/23 15:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 15:53	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/23 15:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 128			-		05/26/23 15:53	1
Dibromofluoromethane (Surr)	96		77 - 124					05/26/23 15:53	1
Toluene-d8 (Surr)	104		80 - 120					05/26/23 15:53	1
4-Bromofluorobenzene	87		76 - 120					05/26/23 15:53	1

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-185632-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Reco
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(70-128)	(77-124)	(80-120)	(76-120)
240-185632-1	TRIP BLANK_123	96	94	105	90
240-185632-2	MW-173S_051723	97	96	104	87
LCS 460-911610/4	Lab Control Sample	80	82	96	101
LCSD 460-911610/5	Lab Control Sample Dup	85	87	101	107
MB 460-911610/9	Method Blank	88	91	100	98
Surrogate Legend					

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

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB	
Lab Sample ID	Client Sample ID	(75-133)	
240-185632-2	MW-173S_051723	98	
LCS 460-910995/4	Lab Control Sample	98	
LCSD 460-910995/5	Lab Control Sample Dup	100	
MB 460-910995/8	Method Blank	99	

Surrogate Legend

BFB = 4-Bromofluorobenzene

Client: ARCADIS US Inc Job ID: 240-185632-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 460-911610/9

Matrix: Water Analysis Batch: 911610 Client Sample ID: Method Blank

Prep Type: Total/NA

l		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			05/26/23 09:17	1
I	cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/23 09:17	1
I	Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 09:17	1
I	trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/23 09:17	1
I	Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 09:17	1
	Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/23 09:17	1
ı										

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88	70 - 128		05/26/23 09:17	1
Dibromofluoromethane (Surr)	91	77 - 124		05/26/23 09:17	1
Toluene-d8 (Surr)	100	80 - 120		05/26/23 09:17	1
4-Bromofluorobenzene	98	76 - 120		05/26/23 09:17	1

Lab Sample ID: LCS 460-911610/4

Matrix: Water

Analysis Batch: 911610

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

%Rec

-	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	20.0	20.4		ug/L		102	68 - 133
cis-1,2-Dichloroethene	20.0	18.5		ug/L		93	78 - 121
Tetrachloroethene	20.0	19.8		ug/L		99	70 - 127
trans-1,2-Dichloroethene	20.0	20.5		ug/L		103	74 - 126
Trichloroethene	20.0	17.8		ug/L		89	71 - 121
Vinyl chloride	20.0	25.0		ug/L		125	55 - 144

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		70 - 128
Dibromofluoromethane (Surr)	82		77 - 124
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene	101		76 - 120

Lab Sample ID: LCSD 460-911610/5

Matrix: Water

Analysis Batch: 911610

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	20.0	23.6		ug/L		118	68 - 133	15	30
cis-1,2-Dichloroethene	20.0	20.3		ug/L		101	78 - 121	9	30
Tetrachloroethene	20.0	20.5		ug/L		102	70 - 127	3	30
trans-1,2-Dichloroethene	20.0	21.6		ug/L		108	74 - 126	5	30
Trichloroethene	20.0	19.4		ug/L		97	71 - 121	8	30
Vinyl chloride	20.0	28.6		ug/L		143	55 - 144	14	30

LCSD LCSD

Surrogate	%Recovery Qu	alifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		70 - 128
Dibromofluoromethane (Surr)	87		77 - 124
Toluene-d8 (Surr)	101		80 - 120

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Job ID: 240-185632-1

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site

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

Lab Sample ID: LCSD 460-911610/5 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 911610

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 107 76 - 120

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

Lab Sample ID: MB 460-910995/8 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 910995

MB MB Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 2.0 1,4-Dioxane 2.0 U 0.86 ug/L 05/23/23 21:05

MB MB

Surrogate %Recovery Qualifier Limits Dil Fac Prepared Analyzed 4-Bromofluorobenzene 99 75 - 133 05/23/23 21:05

Lab Sample ID: LCS 460-910995/4 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 910995

Spike LCS LCS %Rec Analyte Added Result Qualifier Limits Unit D %Rec 1,4-Dioxane 5.00 5.25 105 57 - 124 ug/L

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 75 - 133 98

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 460-910995/5 **Matrix: Water**

Analysis Batch: 910995

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 1,4-Dioxane 5.00 5.02 100 57 - 124 30 ug/L

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 100 75 - 133

Prep Type: Total/NA

QC Association Summary

Client: ARCADIS US Inc Job ID: 240-185632-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 910995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
240-185632-2	MW-173S_051723	Total/NA	Water	8260D SIM
MB 460-910995/8	Method Blank	Total/NA	Water	8260D SIM
LCS 460-910995/4	Lab Control Sample	Total/NA	Water	8260D SIM
LCSD 460-910995/5	Lab Control Sample Dup	Total/NA	Water	8260D SIM

Analysis Batch: 911610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Bate	ch
240-185632-1	TRIP BLANK_123	Total/NA	Water	8260D	_
240-185632-2	MW-173S_051723	Total/NA	Water	8260D	
MB 460-911610/9	Method Blank	Total/NA	Water	8260D	
LCS 460-911610/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-911610/5	Lab Control Sample Dup	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-185632-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_123

Lab Sample ID: 240-185632-1 Date Collected: 05/17/23 00:00

Matrix: Water

Date Received: 05/19/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	911610	CJM	EET EDI	05/26/23 12:36

Client Sample ID: MW-173S_051723 Lab Sample ID: 240-185632-2

Date Collected: 05/17/23 14:55 Matrix: Water

Date Received: 05/19/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	911610	CJM	EET EDI	05/26/23 15:53
Total/NA	Analysis	8260D SIM		1	910995	KLB	EET EDI	05/23/23 22:31

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 240-185632-1 Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	01-30-24
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-01-24
Georgia	State	12028 (NJ)	06-30-23
Massachusetts	State	M-NJ312	06-30-23
New Jersey	NELAP	12028	06-30-23
New York	NELAP	11452	04-01-24
Pennsylvania	NELAP	68-00522	03-01-24
Rhode Island	State	LAO00376	12-30-23
USDA	US Federal Programs	P330-20-00244	11-03-23

TestA	Chai. TestAmerica Laboratory location: <u>Brighton</u> 10448 Cita	Chain of Custody Record 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	9-2763	TestAmerica
Client Contact	Regulatory program: DW	☐ NPDES ☐ RCRA ☐ Other		
Company Name: Arcadis	Chent Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	TestAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500	Telephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	
City/State/Zip: Novi, MI, 48377		Anelysis, lurascound lime	The state of the s	1 of 1 COCs
Phone: 248-994-2240	Email: Kristoffer-hinskey(@arcadis.com	Authorities of the control of the co	VIIIIVSES	For lab use only
Project Name: Ford LTP Off-Site	Sampler Name:	TAT if different from below 3 weeks		Walk-in client
Project Number: 30167538,402.04	Method of Shipment/Carrier	(N	1	Lab sampling
PO # 30167538.402.04	Shipping/Tracking No:	Grab	80928	Job/SDG No:
	Matrix	/) =-	E 85	
Sample Identification	Sample Date Sample Time Air Air Sediment	Combosics Combosics Lifected 8: Call Call Call Call Call Call Call Cal	cis-1,2-DC Trans-1,2- TCE 82601 Vinyl Chlor	Sample Specific Notes / Special Instructions;
TRIP BLANK_ 123	5/17/2 1		×××××	1 Trip Blank
0 MW- 1735-051723	5/17/23 1455 6	× 20 × 20 × 20 × 20 × 20 × 20 × 20 × 20	× × × × × × × × × × × × × × × × × × ×	3 VOAs for 8260B 3 VOAs for 8260B SIM
age 1				
7 of				
21				
				TA OH O
		240-185632 Chain of Custody	ustody	O TO
				96
Possible Hazard Identification V Non-Hazard Rammable Skin Irritant	nt Poison B Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return to Client	aples are retained longer than 1 month) b Archive For Months	
Special Instructions/QC Requirements & Comments, Sample Address: 72 30xb-1 Dsf Submit all results through Cadena at itomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.	7 25 f .com. Cadena #E203631			
Relinquished by Control		1618 Nov. 6165	Frage Company	Date Time / 16/9
Relinquished by:	Company: Date Time / 13,	1745 Received by.	Company	CTime 100
Relinquished by:		Received in Laboratory by:	Company:	Date/Time:
		1		

	1861.37
Eurofins - Canton Sample Receipt Form/Narrative Log Barberton Facility	gin # : 185632
Client A Codi. S Site Name	Cooler unpacked by:
Cooler Received on 05-19-23 Opened on 05-19-23	Leah M. Smith
FedEx: 1st Grd Exp UPS FAS (Chipper) Client Drop Off Eurofins Courie	er Other
Receipt After-hours: Drop-off Date/Time Storage Loc	cation
Eurofins Cooler # C Foam Box Client Cooler Box Other	
	her
COOLANT: Wet Ice Blue Ice Dry Ice Water None	0.4.7
1. Cooler temperature upon receipt	
IR GUN #(CF°C) Observed Cooler Temp	°C Corrected Cooler Temp°C
 Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity -Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)? Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC? Did all bottles arrive in good condition (Unbroken)? Could all bottle labels (ID/Date/Time) be reconciled with the COC? For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N). Were correct bottle(s) used for the test(s) indicated? Sufficient quantity received to perform indicated analyses? Are these work share samples and all listed on the COC? If yes, Questions 13-17 have been checked at the originating laboratory. Were all preserved sample(s) at the correct pH upon receipt? Were VOAs on the COC? Were air bubbles >6 mm in any VOA vials? Larger than this. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes No
17. Was a LL Hg or Me Hg trip blank present?	Yes (No)
Contacted PM Date by via V	erbal Voice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	page Samples processed by:
19. SAMPLE CONDITION	
Sample(s) were received after the recommend	ed holding time had expired.
Sample(s) were r	received in a broken container.
Sample(s) were received with bubble >	6 mm in diameter. (Notify PM)
20. SAMPLE PRESERVATION	
Sample(s)	were further preserved in the laboratory.
Sample(s) Time preserved:Preservative(s) added/Lot number(s):	mile products and the moduloity.
VOA Sample Preservation - Date/Time VOAs Frozen:	1.

				1-11-27
			L	ogin#: 185632
		Sample Receipt Mul	Itiple Cooler Form	
Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
C Client Box Other	IR GUN #:	0.8,	0.8	Wet ice Blue ice Dry ice
C Client Box Other	IR GUN #:	7.8	1.8	Wet ice Blue ice Dry ice
C Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice
C Client Box Other	IR GUN #:			Water None Wet ice Blue Ice Dry Ice Water None
C Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
C Client Box Other	IR GUN #:			Wet ice Blue Ice Dry ice Water None
C Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
C Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
Client Box Other	IR GUN #:			Wefice Blue ice Dry ice Water None
Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
Client Box Other	IR GUN #:		a destrict and a second	Wet Ice Blue Ice Dry Ice Water None
Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
Client Box Other	IR GUN #:			Wet ice Sive ice Dry ice Water None
Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
Client Box Other	IR GUN #:			Wet ice Sive ice Dry ice Water None
Client Box Other	IR GUN #:			Wet Ice Sive Ice Dry Ice Water None
Client Box Other	IR GUN #:			Wet ice Blue Ice Dry ice Water None
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Client Box Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
			☐ See Temp	perature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

Eurofins Cleveland

180 S. Van Buren Avenue

Barberton, OH 44203 Phone: 330-497-9396 Fax: 330-497-0772

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Client Information (Sub Contract Lab)	Sampler	DelMo	Lab PM; DelMonico, Michael	ae	 	Camer tracking NO(s):	J(s):	240-168358.1	
Client Contact:	Phone:	E-Ma			ļ	State of Origin:		Page:	
Shipping/Receiving		Mich	ael DelMon	Michael.DelMonico@et.eurofinsus.com	1	Michigan		Page 1 of 1	
Company: Eurofins Environment Testing Northeast,			Accreditations	Accreditations Required (See note):	:íe			240-185632-1	
Address: 777 New Durham Road	Due Date Requested: 6/1/2023			Ana	Analysis Requ	Requested		Preservation Codes	
City: Edison	TAT Requested (days):								
Sate, Zp. NJ, 08817	-							D Nitric Acid E NaHSO4 E MeOH	C Na2S03 R Na2S203
Phone: [732-549-3900(Tel] 732-549-3679(Fax)	PO ∯			bort			16-17km- <u>1</u> -2		S H2SO4 T TSP Dodecahydrate
Email:	WO#		(on	cal Ma				I loe J Di Water	V MCAA W pH 4-5
Project Name: Ford LTP - Off Site	Project #: 24015353		10 50 ,	on (ac			onleine	∠ →	Y Trizma Z other (specify)
Site:	SSOW#:		() as) O(W)			00 10	Other	
Sample Identification - Client ID (Lab ID)	Sample Date Time G=g	Sample (www.mer. Type Smoold. (C=comp, Britseu. G=grab) Awar)	Seld Fillered Makeniones M) 20006(M)	9260D_SIM\5030			sedmul/ Jaloī		Special Instructions/Note.
	X	Preservation Code:	X				X		
TRIP BLANK_123 (240-185632-1)	5/17/23 Eastern	Water	×				•		
Q MW 173S_051723 (240-185632-2)	5/17/23 14:55 Eastern	Water	×	×			9		
								~ >>======	

Note: Since laboratory accreditations are subject to change. Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/fests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately.	ent Testing North Central, LLC places the or above for analysis/flests/matrix being analyzi entral, LLC attention immediately. If all requ	wnership of method, an ed, the samples must b uested accreditations a	nalyte & accredi ne shipped back re current to da	ation compliance u to the Eurofins En te, return the signe	pon our subcont vironment Testin d Chain of Custe	ract laboratories. g North Central, U ody attesting to sail	This sample shipmi LC laboratory or off d compliance to Eu	ent is forwarded under her instructions will be I rofins Environment Tei	chain-of-custody. If the provided. Any changes to sting North Central, LLC.
Possible Hazard Identification			Sample	Disposal (A fi	se may be a:	ssessed if san	nples are retail	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	f month)
Uncommed Deliverable Requested: I, II, III, IV Other (specify)	Primary Deliverable Rank; 2		Special	Special Instructions/QC Requirements:	Requiremen	ents:		5 . 54.	2000
Empty Rit Relinquished by:	Date:		Time: /			Method of Shipment:	nipment:		
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Rehapuishedby.	Date/Time:	Company	Received	ved by:	-		Date/Time:		Сотрапу
Relinquished by:	Date/Time:	Company	Rece	Received by:			Date/Time:		Сотрапу
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ıļ .			14 14	1:	1	9	7	5	2 3

Login Sample Receipt Checklist

Client: ARCADIS US Inc Job Number: 240-185632-1

List Source: Eurofins Edison
List Number: 2
List Creation: 05/23/23 06:56 PM

Creator: Armbruster, Chris

Creator: Armbruster, Chris		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6 mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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CADENA

DATA VERIFICATION REPORT

May 31, 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 - Cleveland

Laboratory submittal: 185632-1 Sample date: 2023-05-17

Report received by CADENA: 2023-05-31

Initial Data Verification completed by CADENA: 2023-05-31

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, LCS/LCD RPD, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
Е	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 185632-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401856 5/17/20	5321	3		MW-173 2401856 5/17/20	- 5322	23	
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>0D</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-826	<u>ODSIM</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 # 240-185632-1

CADENA Verification Report: 2023-05-31

Analyses Performed By: Eurofins North Canton, Ohio

Report # 50147R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-185632-1 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:

Comple ID	Lab ID	Matrix	Sample	Doront Comple	Ana	lysis
Sample ID	Labib	Matrix	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_123	240-185632-1	Water	05/17/23		Х	
MW-173S_051723	240-185632-2	Water	05/17/23		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Perfori Accep		Not Required
	No	Yes	No	Yes	Required
Sample receipt condition		Χ		X	
2. Requested analyses and sample results		Χ		X	
Master tracking list		Χ		Х	
4. Methods of analysis		Χ		Х	
5. Reporting limits		Χ		Х	
6. Sample collection date		Χ		Х	
7. Laboratory sample received date		Χ		Х	
Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance ptable	Not
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation		1			
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: Cuindinlund

DATE: June 20, 2023

PEER REVIEW: Andrew Korycinski

DATE: June 21, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record



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

Client Contact	Regular	tory program:		(DW	T	NP	DES		┌ R	CRA		Oth	er										
Company Name: Arcadis	Client Project	Manager: Kris	Hinek	01:		Te:	ta Car	stants (Th wis	tine \	Veaver				lt	2	9.421	. 12-1	N 4					TestAmerica Laboratories, Inc
Address: 28550 Cabot Drive, Suite 500			THESE	ey			ne Cor	maci: C	" nris	stina v	veaver				LAD	ontac	et: Mil	te Dei	Monic	:0				COC No:
City/State/Zip: Novi, MI, 48377	Telephone: 248	3-994-2240				Т	elepho	ne: 24	8-994	4-2240)				Telephone: 330-497-9396					1 of 1 000				
	Email; kristoff	er.hinskey@ar	cadis.	com			Analysis Turnaround Time				Analyses					1 of 1 COCs For lab use only								
Phone: 248-994-2240	C					Т	AT if di	Ohaman da	our but	Inni														Wells in allers
Project Name: Ford LTP Off-Site	Sampler Name	4 //				l,	ATIG		F 3	3 week		1												Walk-in client
Project Number: 30167538.402.04	Method of Ship	ment/Carrier	pc			\dashv	10 da	ay		2 week I week			0							Σ				Lab sampling
PO # 30167538.402.04	Shipping/Track					\dashv				2 days 1 day		X X	rab=		<u>@</u>	260B			8260B	B SIM				Job/SDG No:
	Jonephile Trace	T		8/	atrix	_	Ca	ntainer			-th	Sample (Y / N)	C/Grab=G	30B	8260	CE 8			le 82	8260B				300/SDC No;
						,			\top	T		red San	1	1,1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinył Chloride	1,4-Dioxane				Sample Specific Notes /
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Solid Other:		HZSO4 HN03	달	NaOH	NaOH	Other:	Filtered	Com	1,1-	cis-1	Tran	P.S.	TCE	Viny	1,4-				Special Instructions:
TRIP BLANK_ 123	5/17/23			1				1				N	G	X	Х	Х	Х	X	X					1 Trip Blank
MW-1735-051723	5/17/23	1455		6				6				N	G	λ	λ.	X	k	χ	X	~				3 VOAs for 8260B 3 VOAs for 8260B SIM
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Special Instructions/QC Requirements & Comments:	0.1	-																						
Sample Address: 1/72/30xfb. Submit all results through Cadena at jtomalia@cadenaco	7 / 057	£E203631																						
Level IV Reporting requested.	.oom. oddona i																							
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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-185632-1

Client Sample ID: TRIP BLANK_123

Lab Sample ID: 240-185632-1 Date Collected: 05/17/23 00:00 **Matrix: Water**

Date Received: 05/19/23 08:00

Project/Site: Ford LTP - Off Site

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/26/23 12:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/23 12:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 12:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/23 12:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 12:36	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/23 12:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 128			-		05/26/23 12:36	1
Dibromofluoromethane (Surr)	94		77 - 124					05/26/23 12:36	1
Toluene-d8 (Surr)	105		80 - 120					05/26/23 12:36	1
4-Bromofluorobenzene	90		76 - 120					05/26/23 12:36	1

Client Sample ID: MW-173S_051723 Lab Sample ID: 240-185632-2

Date Collected: 05/17/23 14:55

Date Received: 05/19/23 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			05/23/23 22:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		75 - 133			•		05/23/23 22:31	1
Method: SW846 8260D -	Volatile Organic	Compoun	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1.1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/26/23 15:53	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/26/23 15:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/23 15:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 15:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/23 15:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 15:53	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/23 15:53	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97	70 - 128		05/26/23 15:53	1
Dibromofluoromethane (Surr)	96	77 - 124		05/26/23 15:53	1
Toluene-d8 (Surr)	104	80 - 120	(05/26/23 15:53	1
4-Bromofluorobenzene	87	76 - 120	(05/26/23 15:53	1

Matrix: Water