PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 5/28/2023 8:48:50 PM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-185532-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

Generated 5/28/2023 8:48:50 PM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-185532-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-185532-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

O	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
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)

MQL NC

MPN

C 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)

Most Probable Number

Method Quantitation Limit

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: 240-185532-1

Project/Site: Ford LTP - Off Site

Job ID: 240-185532-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-185532-1

Receipt

The samples were received on 5/18/2023 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 0.4° C and 0.6° C

GC/MS VOA

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

Method Summary

Client: ARCADIS US Inc Job ID: 240-185532-1

Project/Site: Ford LTP - Off Site

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

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

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Sample Summary

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

Job ID: 240-185532-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-185532-1	TRIP BLANK_70	Water	05/16/23 00:00	05/18/23 08:00
240-185532-2	MW-160S_051623	Water	05/16/23 12:35	05/18/23 08:00

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Detection Summary

Client: ARCADIS US Inc Job ID: 240-185532-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_70 Lab Sample ID: 240-185532-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-185532-1

Project/Site: Ford LTP - Off Site

Date Received: 05/18/23 08:00

Client Sample ID: TRIP BLANK_70

Lab Sample ID: 240-185532-1 Date Collected: 05/16/23 00:00

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 05/24/23 22:27 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/24/23 22:27 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 05/24/23 22:27 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 05/24/23 22:27 Trichloroethene 1.0 U 1.0 0.44 ug/L 05/24/23 22:27 Vinyl chloride 1.0 U 1.0 0.45 ug/L 05/24/23 22:27 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 97 70 - 128 05/24/23 22:27 Dibromofluoromethane (Surr) 102 05/24/23 22:27 77 - 124 05/24/23 22:27 Toluene-d8 (Surr) 86 80 - 120 4-Bromofluorobenzene 80 76 - 120 05/24/23 22:27

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-185532-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-160S_051623

Date Collected: 05/16/23 12:35 Date Received: 05/18/23 08:00

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

4-Bromofluorobenzene

Lab Sample ID: 240-185532-2

05/25/23 01:10 05/25/23 01:10

05/25/23 01:10

Matrix: Water

Method: SW846 8260D SIM - \	Volatile Organic C	ompounds	(GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/22/23 21:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		75 - 133			-		05/22/23 21:45	1
- Method: SW846 8260D - Volat	tile 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			05/25/23 01:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/23 01:10	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/23 01:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/23 01:10	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/23 01:10	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/23 01:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 128			-		05/25/23 01:10	1

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80 - 120

76 - 120

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Surrogate Summary

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

Job ID: 240-185532-1

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)
240-185460-A-4 MS	Matrix Spike	98	93	94	93
240-185460-J-4 MSD	Matrix Spike Duplicate	94	95	92	91
240-185532-1	TRIP BLANK_70	97	102	86	80
240-185532-2	MW-160S_051623	99	105	84	81
LCS 460-911191/4	Lab Control Sample	91	92	93	94
MB 460-911191/9	Method Blank	92	97	86	84

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)	
240-185467-E-2 MSD	Matrix Spike Duplicate	97	
240-185467-F-2 MS	Matrix Spike	99	
240-185532-2	MW-160S_051623	96	
LCS 460-910713/2	Lab Control Sample	96	
MB 460-910713/8	Method Blank	96	

BFB = 4-Bromofluorobenzene

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Client: ARCADIS US Inc Job ID: 240-185532-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 460-911191/9

Matrix: Water

Analysis Batch: 911191

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 05/24/23 20:25 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/24/23 20:25 1.0 U 05/24/23 20:25 Tetrachloroethene 1.0 0.44 ug/L trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 05/24/23 20:25 Trichloroethene 1.0 U 1.0 0.44 ug/L 05/24/23 20:25 Vinyl chloride 1.0 U 1.0 05/24/23 20:25 0.45 ug/L

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	92		70 - 128		05/24/23 20:25	1
	Dibromofluoromethane (Surr)	97		77 - 124		05/24/23 20:25	1
	Toluene-d8 (Surr)	86		80 - 120		05/24/23 20:25	1
İ	4-Bromofluorobenzene	84		76 - 120		05/24/23 20:25	1

Lab Sample ID: LCS 460-911191/4

Matrix: Water

Analysis Batch: 911191

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	22.7		ug/L		113	68 - 133
cis-1,2-Dichloroethene	20.0	21.4		ug/L		107	78 - 121
Tetrachloroethene	20.0	24.9		ug/L		125	70 - 127
trans-1,2-Dichloroethene	20.0	22.2		ug/L		111	74 - 126
Trichloroethene	20.0	22.3		ug/L		112	71 - 121
Vinyl chloride	20.0	22.4		ug/L		112	55 - 144

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 128
Dibromofluoromethane (Surr)	92		77 - 124
Toluene-d8 (Surr)	93		80 - 120
4-Bromofluorobenzene	94		76 - 120

Lab Sample ID: 240-185460-A-4 MS

Matrix: Water

Analysis Batch: 911191

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

Sample Sample Spike MS MS %Rec Result Qualifier Analyte Added Result Qualifier %Rec Limits Unit 1,1-Dichloroethene 1.0 U 20.0 21.1 ug/L 105 68 - 133 cis-1,2-Dichloroethene 1.0 20.0 20.7 ug/L 98 78 - 121 Tetrachloroethene 1.0 U 20.0 22.7 ug/L 114 70 - 127 trans-1,2-Dichloroethene 1.0 U 20.0 20.6 ug/L 103 74 - 126 Trichloroethene 71 - 121 1.0 U 20.0 19.2 96 ug/L Vinyl chloride 1.0 UF1 30.0 F1 150 55 - 144 ug/L

MS MS

Surrogate	%Recovery Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98	70 - 128
Dibromofluoromethane (Surr)	93	77 - 124
Toluene-d8 (Surr)	94	80 - 120

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Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Job ID: 240-185532-1

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

Lab Sample ID: 240-185460-A-4 MS

Matrix: Water

Analysis Batch: 911191

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 93 76 - 120

Lab Sample ID: 240-185460-J-4 MSD

Matrix: Water

Analysis Batch: 911191

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

RPD %Rec D %Rec Limits RPD Limit

MSD MSD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit 1,1-Dichloroethene 1.0 U 20.0 24.6 ug/L 123 68 - 133 15 30 cis-1,2-Dichloroethene 20.0 23 7 78 _ 121 30 1.0 ug/L 113 14 Tetrachloroethene 1.0 U 20.0 25.2 ug/L 126 70 - 127 10 30 trans-1,2-Dichloroethene 1.0 U 20.0 23.9 ug/L 120 74 - 126 15 30 Trichloroethene 1.0 U 20.0 22 0 ug/L 110 71 - 121 14 30 Vinyl chloride 1.0 UF1 20.0 33.3 F1 ug/L 167 55 - 144 30 11

MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 94 70 - 128 Dibromofluoromethane (Surr) 95 77 - 124 Toluene-d8 (Surr) 92 80 - 120 4-Bromofluorobenzene 91 76 - 120

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

MB MB

Lab Sample ID: MB 460-910713/8

Matrix: Water

Analysis Batch: 910713

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

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

MR MR Analyte Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 05/22/23 18:52

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene 96 75 - 133 05/22/23 18:52

Lab Sample ID: LCS 460-910713/2

Matrix: Water

Analysis Batch: 910713

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 5.00 4.27 ug/L 85 57 - 124

LCS LCS %Recovery Qualifier Surrogate Limits 75 - 133 4-Bromofluorobenzene 96

Lab Sample ID: 240-185467-E-2 MSD

Matrix: Water

Analysis Batch: 910713

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.3		5.00	6.68		ug/L		88	57 - 124	0	30

Eurofins Cleveland

Prep Type: Total/NA

QC Sample Results

Client: ARCADIS US Inc Job ID: 240-185532-1 Project/Site: Ford LTP - Off Site

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

99

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	97		75 - 133

Lab Sample ID: 240-185467-F-2 MS

Matrix: Water

4-Bromofluorobenzene

_	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.3		5.00	6.71		ug/L		89	57 - 124	 -
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

75 - 133

Client Sample ID: Matrix Spike

Prep Type: Total/NA

QC Association Summary

Client: ARCADIS US Inc Job ID: 240-185532-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 910713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185532-2	MW-160S_051623	Total/NA	Water	8260D SIM	
MB 460-910713/8	Method Blank	Total/NA	Water	8260D SIM	
LCS 460-910713/2	Lab Control Sample	Total/NA	Water	8260D SIM	
240-185467-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
240-185467-F-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	

Analysis Batch: 911191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185532-1	TRIP BLANK_70	Total/NA	Water	8260D	<u> </u>
240-185532-2	MW-160S_051623	Total/NA	Water	8260D	
MB 460-911191/9	Method Blank	Total/NA	Water	8260D	
LCS 460-911191/4	Lab Control Sample	Total/NA	Water	8260D	
240-185460-A-4 MS	Matrix Spike	Total/NA	Water	8260D	
240-185460-J-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-185532-1

Project/Site: Ford LTP - Off Site

Date Received: 05/18/23 08:00

Client Sample ID: TRIP BLANK_70

Lab Sample ID: 240-185532-1 Date Collected: 05/16/23 00:00

Matrix: Water

Dilution Batch Batch Batch Prepared Method Prep Type Туре Run Factor **Number Analyst** Lab or Analyzed Total/NA 8260D 911191 CJM EET EDI 05/24/23 22:27 Analysis

Client Sample ID: MW-160S_051623 Lab Sample ID: 240-185532-2

Date Collected: 05/16/23 12:35 **Matrix: Water**

Date Received: 05/18/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	911191	CJM	EET EDI	05/25/23 01:10
Total/NA	Analysis	8260D SIM		1	910713	SZD	EET EDI	05/22/23 21:45

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 240-185532-1

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

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TestAmerica

Chain of Custody Record

MICHIGAN 190

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

TestAmerica Laboratories, Inc COC No: 800 933 3 VOAs for 8260B 3 VOAs for 8260B SIM COCs Sample Specific Notes / Special Instructions: Date/Time: 05-18-23 1 Trip Blank Date/Time: 5/17/23/ Dute/Time: 5/17/23/ or lab use onl Valk-in client gallqmas de 1 0 ob/SDG No: Company: Sample Disposal (A fee may be assessed if samples are retained longer than I month)
Return to Client Disposal By Lab Archive For Months EETNC MIS 803S8 ansxoiQ-4, × Analyses Lab Contact: Mike DelMonico Vinyl Chloride 8260B × × Telephone: 330-497-9396 × CE 85908 OCE 85008 × × Storage × 1909Z9 300-Z'L-SUE1 × 12-1,2-DCE 8260B × 240-185532 Chain of Custody × Received in Laboratory by: 1-DCE 8500B Other 9 G D=deriO / J=silzoqimo) Cold Z (N \ Y) alquas baratiff 2 Site Contact: Christina Weaver Analysis Turnaround Time Other RCRA 2011qaQ 3 weeks Telephone: 248-994-2240 < 2 weeks 1 week 2 days 1 day Received by (ceived by HOWN TAT if different from before HOEN NPDES IJH 6 10 day 838 935 EONH FOSZH Date/Time: 5/7/23/ Date/Time: 1 52/1/2 Others Date/Time; 5/17/23/ MO bilo2 Unknown Email: kristoffer.hinskey@arcadis.com 0 saoonby Client Project Manager: Kris Hinskey 114 Set Tund Regulatory program: 1235 Sample Time Company. RCA DES Method of Shipment/Carrier: Arcele 'S Telephone: 248-994-2240 Special Instructions/QC Requirements & Comments:

Sample Address: (2/4/80540N POS+
Submit all results through Cadena at fromstle@cadenaco.com. Cadena #E203631 Company: shipping/Tracking No: Poison B Sampler Name: 5/11/23 Sample Date Skin Irritant mw-1605-05162 Flammable Sample Identification Client Contact Address: 28559 Cabot Drive, Suite 500 Relinquished by: TRIP BLANK_ 70 Project Name: Ford LTP Off-Site Project Number: 30167538,402.04 Possible Hazard Identification City/State/Zip: Novi, MI, 48377 Company Name: Arcadis PO# 30167538.402.04 Phone: 248-994-2240 Relinquished by Relinquished by Page 18 of 22 0

\$2008. Tetchmen: Laporationes, inc., Afrights reserved leadernerca & Design ** are undernaria of TestAmerica Laborator ess., izc. 5/28/2023

	11/6637
Eurofins - Canton Sample Receipt Form/Narrative Login Barberton Facility	#: 189534
Client Accadis Site Name	Cooler unpacked by:
Cooler Received on 05-18-23 Opened on 05-18-23	I M Am Ha
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier	Other
Receipt After-hours: Drop-off Date/Time Storage Locati	
	ion_
COOLANT: Wet Lee Blue Ice Dry Ice Water None Cooler temperature upon receipt IR GUN # 22 (CF TO, O°C) Observed Cooler Temp. 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?	C Corrected Cooler Temp. C No No No Yes No
ontacted PM Date by via Verb	al Voice Mail Other
oncerning	
8. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	ge Samples processed by:
D. SAMPLE CONDITION ample(s) were received after the recommended l	holding time had expired.
were received after the recommended lample(s) were received after the recommended lample(s)	eived in a broken container.
	eived in a broken container.
were received after the recommended lample(s) were received with bubble >6 mple(s) we	eived in a broken container. nm in diameter. (Notify PM)

Login#: 185532

Eurofins - Canton Sample Receipt Multiple Cooler Form Cooler Description IR Gun# Observed Coolant Corrected (Circle) (Circle) Temp °C (Circle) Temp °C Blue Ice Dry ice Wel ice Client IR GUN #: EC Other Box None Water Blue Ice Dry Ice Wel ice IR GUN #: 00 EC Client Other Box 0 IR GUN #: Wet Ice Blue Ice Client EC Box Other Water None IR GUN #: Sive ice Wel ice EC Client Box Other Water None Blue Ice IR GUN #: Wel Ice EC Client Other Box None Water Sive Ice IR GUN #: Dry ice EC Client Box Other Water Dry Ice IR GUN #: Blue Ice Client EC Other Box Water Blue Ice IR GUN #: Wet Ice ŧC Client Other Box Water None IR GUN #: Blue Ice Dry Ice Wet Ice Client EC Other Box Water Blue Ice IR GUN #: Wet Ice EC Client Other Box None Water IR GUN #: Wel ke EC Client Box Other Woler None Blue Ice IR GUN #: Dry Ice EC. Client Box Other Water None Wel ice Blue ice Dry Ice IR GUN #: EC Client Olher Lox Water None IR GUN #: Wet ice Blue ice Dry Ice Client Other Box Water No IR GUN #: Wet Ice EC Client Box Other Water None IR GUN #: Sive Ice Dry Ice Wel Ice EC Client Box Other Water None Dry Ice IR GUN #: Wel ice Blue ice EC Client Other Box Water None Wel ice Blue ice Dry ice IR GUN #: EC Client Other Box Water None IR GUN #: Dry Ice Blue Ice Wet Ice EC Client Box Other Water None Blue Ice Dry ice IR GUN #: Wet Ice EC Client Box Other None Water IR GUN #: Wel ice EC Client Box Other Water None Wet Ice Blue Ice Dry Ice R GUN #: EC Client Other Box Water Sive ice IR GUN #: Dry Ice Wet Ice EC **Client** Other Box None Water Blue Ice Dry ice IR GUN #: Wet Ice EC Client Box Other Water None Blue Ice Dry ice IR GUN #: Wef Ice EC Client Box Other Water None IR GUN #: Dry ice Wel Ice EC Client Other Box Dry Ice R GUN #: Blue Ice EC Client Other Box Water None Blue Ice Dry Ice IR GUN #: Wet Ice EC Client Other Box Water None Blue ice Dry Ice IR GUN #: Wet Ice EC Client Box Other Water IR GUN #: Blue Ice EC Client Box Other Water IR GUN F: Wet Ice FC Client Other Box Water Blue Ice Dry Ice IR GUN #: EC Client Other Box Woler IR GUN #: Wet Ice Blue ice Dry ice EC Client Box Other None Water Dry ice IR GUN #: Wet Ice Blue Ice EC Client Box Other None Water See Temperature Excursion Form

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

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12

Eurofins Cleveland 180 S. Van Buren Avenue

Barberton, OH 44203

Environment Testing

Phone: 330-497-9396 Fax: 330-497-0772				
	Sampler	Lab PM:	Carrier Tracking No(s):	COC No:
Client Information (Sub Contract Lab)		DelMonico, Michael		240-168292.1
Client Contact:	Phone:	E-Mail:	State of Origin:	Page:
Shipping/Receiving		Michael.DelMonico@et.eurofinsus.com	Michigan	Page 1 of 1
Company:		Accreditations Required (See note):		# qor
Eurofins Environment Testing Northeast,				240-185532-1
Address:	Due Date Requested:			Preservation Codes:
777 New Durham Road,	5/31/2023	Analysis	Analysis Requested	A HCt. M Hexane
City:	TAT Requested (days):			NaOH O
Edison				Cu Acetate
State, Zip: NJ, 08817				E NaHSO4 R Na2S203
Phone:	PO#	()		Amchlor
105-049-0900(161) 105-049-0013(1 av)		317		ASCORDIC ACID
Email:	WO#	s or N Short I sas Me	\$1.0	J DI Water V
Project Name:	Project #;	10 3) 8	u ji	× 401
Ford LTP Off Site	24015353	30. Se,	e inte	. ر
Site:	**MOSS	v (ac	0180	Other
		M)	10	
	Sample	OC WS	qw	
		09. UL	nn	
	<u>.</u>	1 0) 10	lato	
Sample Identification - Client ID (Lab ID)	Sample Date Time G=grab)	P4 85	21	Special Instructions/Note:

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC paces the ownership of method, analyte & accreditation compliance upon our subcontract laboratory or other instructions will be provided. Any changes to aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/rests/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. Months Company Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Mon 02,00 Ø Date/Time: Jate/Time: Method of Shipment: raker Cooler Temperature(s) °C and Other Remarks: Special Instructions/QC Requirements. Return To Client Regained by: ë ガガ Company Primary Deliverable Rank: 2 Date. Date/Time: Deliverable Requested 1, II, IV Other (specify) Custody Seal No. Possible Hazard Identification Kit Relinquished by Custody Seals Intact: telinquished by: Unconfirmed

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14

MW 160S_051623 (240-185532-2) FRIP BLANK_70 (240-185532-1)

o

×

×

Water

Eastern

5/16/23 5/16/23

×

Water

Eastern

Preservation Code:

Δ Yes Δ No

Client: ARCADIS US Inc

Job Number: 240-185532-1

List Source: Eurofins Edison
List Number: 2
List Creation: 05/19/23 12:22 PM

Creator: Armbruster, Chris

oreator. Ambruster, omis	
Question	Answer Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</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
Is 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 <6mm (1/4").	True
Multiphasic samples are not present.	True
Samples do not require splitting or compositing.	True
Residual Chlorine Checked.	N/A

Eurofins Cleveland

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: 185532-1 Sample date: 2023-05-16

Report received by CADENA: 2023-05-31

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

Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

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

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 185532-1

				TRIP BLANK_70 2401855321 5/16/2023			MW-160S_051623 2401855322 5/16/2023				
				Report		Valid		Report		Valid	
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	
GC/MS VOC											
OSW-8260											
	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>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 # 240-185532-1

CADENA Verification Report: 2023-05-31

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49947R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-185532-1 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	Devent Comple	Analysis		
Sample ID	Labib	Matrix	Collection Date	Parent Sample	VOC	VOC SIM	
TRIP BLANK_70	240-185532-1	Water	05/16/23		Х		
MW-160S_051623	240-185532-2	Water	05/16/23		Х	X	

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		X		
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, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compounds	Criteria
TRIP BLANK_70 MW-160S_051623	Initial Calibration Verification %D	Vinyl chloride	+25.9%
MW-160S_051623	Initial Calibration Verification %D	1,4-Dioxane	+28.1%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
	RRF <0.05	Non-detect	R
	KKF <0.05	Detect	J
Initial and Continuing Calibration	RRF <0.01 ¹	Non-detect	R
Calibration	RRF <0.011	Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action

Initial/Continuing	Criteria	Sample Result	Qualification
		Detect	
	%RSD > 20% or a correlation coefficient <0.99	Non-detect	UJ
Initial Calibration	%RSD > 20% of a correlation coefficient <0.99	Detect	J
Initial Calibration	0/ DCD > 000/	Non-detect	R
	%RSD > 90%	Detect	J
	0/ D > 000/ /in initi-it)	Non-detect	UJ
	%D >20% (increase in sensitivity)	Detect	J
0	0/ D > 000/ (d in iti : it)	Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
	0/ D > 000/ /in /d initinit)	Non-detect	R
	%D > 90% (increase/decrease in sensitivity)	Detect	J

Note:

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.

¹RRF of 0.01 only applies to compounds which are typically poor responding compounds

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)	<u>'</u>			
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		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	
		1			

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Hrishikesh Upadhyaya

SIGNATURE:

DATE: June 16, 2023

Curuliland

PEER REVIEW: Andrew Korycinski

DATE: June 21, 2023

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record



TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 Client Contact Regulatory program: NPDES **RCRA** Other Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 COCs Analysis Turnaround Time Email: kristoffer.hinskey@arcadis.com Analyses For lab use only Phone: 248-994-2240 Sampler Name: TAT if different from below Walk-in client Project Name: Ford LTP Off-Site 3 weeks Setn Tunes ~ 2 weeks Lab sampling Project Number: 30167538.402.04 S ple (Y/N) 8260B 2 days Vinyl Chloride 8260B 8260B 3S-1,2-DCE 8260B Shipping/Tracking No: Job/SDG No: PO#30167538.402.04 I day Matrix Containers & Preservatives TCE 8260B I,4-Dioxane Sample Specific Notes / HNO3 NaOH Solid HCI Special Instructions: Sample Date | Sample Time Sample Identification 5[16/23 TRIP BLANK_ 70 NG X X X X X 1 Trip Blank o mw-1605-051623 235 3 VOAs for 8260B X 6 3 VOAs for 8260B SIM Page 694 of 698 Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Flammable Skin Irritant Poison B Unknown Non-Hazard Return to Client Disposal By Lab Archive For Special Instructions/QC Requirements & Comments: Vost Sample Address: 12141 Boston Submit all results through Cadena at Itomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested. Cold Storage Relinquished by

2008. Test/menca Laponstones, inc. At rights renewed laborator es. Liz Allendre de Test/menca Laborator es. Liz 20 radiomária de Laborator es. Liz

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-185532-1

Client Sample ID: TRIP BLANK_70

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-185532-1

Date Collected: 05/16/23 00:00 **Matrix: Water** Date Received: 05/18/23 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			05/24/23 22:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/24/23 22:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/24/23 22:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/24/23 22:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/24/23 22:27	1
Vinyl chloride	1.0	Ø m	1.0	0.45	ug/L			05/24/23 22:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 128					05/24/23 22:27	1
Dibromofluoromethane (Surr)	102		77 - 124					05/24/23 22:27	1
Toluene-d8 (Surr)	86		80 - 120					05/24/23 22:27	1
4-Bromofluorobenzene	80		76 - 120					05/24/23 22:27	1

Client Sample ID: MW-160S_051623 Lab Sample ID: 240-185532-2

Date Collected: 05/16/23 12:35 Date Received: 05/18/23 08:00

4-Bromofluorobenzene

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	pr nn	2.0	0.86	ug/L	 -		05/22/23 21:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		75 - 133			-		05/22/23 21:45	1

-	00		70 = 700					00: == = 0 = : : : 0	•
Method: SW846 8260D - Vo	olatile 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			05/25/23 01:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/23 01:10	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/23 01:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/23 01:10	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/23 01:10	1
Vinyl chloride	1.0	pr nn	1.0	0.45	ug/L			05/25/23 01:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 128			-		05/25/23 01:10	1
Dibromofluoromethane (Surr)	105		77 - 124					05/25/23 01:10	1
Toluene-d8 (Surr)	84		80 - 120					05/25/23 01:10	1

76 - 120

05/25/23 01:10

Matrix: Water