PREPARED FOR

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

Generated 3/3/2023 9:33:10 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-180976-1

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: 240-180976-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-180976-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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)

Estimated Detection Limit (Dioxin) EDL LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

EPA recommended "Maximum Contaminant Level" MCL 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 **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-180976-1

Project/Site: Ford LTP - Off Site

Job ID: 240-180976-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-180976-1

Receipt

The samples were received on 2/25/2023~8:00 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

Method 8260D: The MS/MSD for batch 563874 was not analyzed due to an instrument malfunction.TRIP BLANK_157 (240-180976-1), MW-80SR_022223 (240-180976-2) and DUP-07 (240-180976-3)

Method $8260D_SIM$: The MS/MSD for batch 564027 was not analyzed due to an instrument malfunction.MW- $80SR_022223$ (240-180976-2) and DUP-07 (240-180976-3)

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: 240-180976-1

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. Job ID: 240-180976-1 Project/Site: Ford LTP - Off Site

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-180976-1	TRIP BLANK_157	Water	02/22/23 00:00	02/25/23 08:00
240-180976-2	MW-80SR_022223	Water	02/22/23 11:05	02/25/23 08:00
240-180976-3	DUP-07	Water	02/22/23 00:00	02/25/23 08:00

Detection Summary

Client: ARCADIS U.S., Inc. Job ID: 240-180976-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_157 Lab Sample ID: 240-180976-1

No Detections.

Client Sample ID: MW-80SR_022223 Lab Sample ID: 240-180976-2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac	D Method	Prep Type
Vinyl chloride	2.3	1.0	0.45 ug/L	1	8260D	Total/NA

Client Sample ID: DUP-07 Lab Sample ID: 240-180976-3

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Vinyl chloride	21	10	0.45 ug/l		8260D	Total/NA

Client: ARCADIS U.S., Inc. Job ID: 240-180976-1

Project/Site: Ford LTP - Off Site

Date Received: 02/25/23 08:00

Client Sample ID: TRIP BLANK_157

Lab Sample ID: 240-180976-1 Date Collected: 02/22/23 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 03/01/23 16:53 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 03/01/23 16:53 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 03/01/23 16:53 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 03/01/23 16:53 Trichloroethene 1.0 U 1.0 0.44 ug/L 03/01/23 16:53 Vinyl chloride 1.0 U 1.0 0.45 ug/L 03/01/23 16:53 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 62 - 137 1,2-Dichloroethane-d4 (Surr) 116 03/01/23 16:53 4-Bromofluorobenzene (Surr) 125 03/01/23 16:53 56 - 136 97 78 - 122 03/01/23 16:53 Toluene-d8 (Surr) Dibromofluoromethane (Surr) 114 73 - 120 03/01/23 16:53

Client: ARCADIS U.S., Inc. Job ID: 240-180976-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-80SR_022223

Lab Sample ID: 240-180976-2 Date Collected: 02/22/23 11:05

Matrix: Water

Date	Received:	02/25/23	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			03/02/23 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4 (Surr)			66 - 120			-		03/02/23 13:20	1

	, ,	-,							
1,2-Dichloroethane-d4 (Surr)	85		66 - 120			_		03/02/23 13:20	1
Method: SW846 8260D - Volatil	e Organic Comp	ounds by G	SC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/01/23 17:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/23 17:18	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 17:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/23 17:18	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 17:18	1
Vinyl chloride	2.3		1.0	0.45	ug/L			03/01/23 17:18	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115	62 - 137		03/01/23 17:18	1
4-Bromofluorobenzene (Surr)	120	56 - 136		03/01/23 17:18	1
Toluene-d8 (Surr)	96	78 - 122		03/01/23 17:18	1
Dibromofluoromethane (Surr)	113	73 - 120		03/01/23 17:18	1

Client: ARCADIS U.S., Inc.

Job ID: 240-180976-1

Project/Site: Ford LTP - Off Site

Client Sample ID: DUP-07 Date Collected: 02/22/23 00:00

Date Received: 02/25/23 08:00

Dibromofluoromethane (Surr)

Lab Sample ID: 240-180976-3

03/01/23 17:43

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			03/02/23 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			66 - 120			_		03/02/23 13:44	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/01/23 17:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/23 17:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 17:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/23 17:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 17:43	1
Vinyl chloride	2.1		1.0	0.45	ug/L			03/01/23 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		62 - 137			_		03/01/23 17:43	1
4-Bromofluorobenzene (Surr)	121		56 ₋ 136					03/01/23 17:43	1
Toluene-d8 (Surr)	98		78 ₋ 122					03/01/23 17:43	1

73 - 120

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3/3/2023

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Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-180976-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rrogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-180976-1	TRIP BLANK_157	116	125	97	114
240-180976-2	MW-80SR_022223	115	120	96	113
240-180976-3	DUP-07	116	121	98	118
LCS 240-563874/5	Lab Control Sample	111	121	98	111
MB 240-563874/9	Method Blank	112	123	96	109

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)						
240-180976-2	MW-80SR_022223	85						
240-180976-3	DUP-07	89						
LCS 240-564027/4	Lab Control Sample	85						
MB 240-564027/6	Method Blank	83						

Surrogate Legend

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

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Client: ARCADIS U.S., Inc. Job ID: 240-180976-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-563874/9

Matrix: Water

Analysis Batch: 563874

Client Sample ID: M	lethod Blank
Prep Ty	pe: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/01/23 14:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/23 14:23	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 14:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/23 14:23	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 14:23	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/23 14:23	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		62 - 137		03/01/23 14:23	1
4-Bromofluorobenzene (Surr)	123		56 ₋ 136	C	03/01/23 14:23	1
Toluene-d8 (Surr)	96		78 - 122	C	03/01/23 14:23	1
Dibromofluoromethane (Surr)	109		73 - 120	C	03/01/23 14:23	1

Lab Sample ID: LCS 240-563874/5

Matrix: Water

Analysis Batch: 563874

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	19.1		ug/L		95	63 - 134	
cis-1,2-Dichloroethene	20.0	18.8		ug/L		94	77 - 123	
Tetrachloroethene	20.0	19.9		ug/L		99	76 - 123	
trans-1,2-Dichloroethene	20.0	18.6		ug/L		93	75 - 124	
Trichloroethene	20.0	18.9		ug/L		95	70 - 122	
Vinyl chloride	20.0	18.5		ug/L		93	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		62 - 137
4-Bromofluorobenzene (Surr)	121		56 ₋ 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	111		73 - 120

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

Lab Sample ID: MB 240-564027/6 Client Sample ID: Method Blank

Matrix: Water								Prep Type: 1	otal/NA
Analysis Batch: 564027									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/02/23 12:56	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		66 - 120			_		03/02/23 12:56	1

Eurofins Canton

3/3/2023

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-180976-1

Project/Site: Ford LTP - Off Site

Matrix: Water

Lab Sample ID: LCS 240-564027/4

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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 564027 Spike LCS LCS

%Rec Result Qualifier Added Analyte Unit %Rec Limits 1,4-Dioxane 10.0 10.5 ug/L 105 80 - 122

LCS LCS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 85 66 - 120

3/3/2023

QC Association Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-180976-1

GC/MS VOA

Analysis Batch: 563874

Lab Sample ID 240-180976-1	Client Sample ID TRIP BLANK 157	Prep Type Total/NA	Matrix Water	Method Prep Batch 8260D
240-180976-2	MW-80SR_022223	Total/NA	Water	8260D
240-180976-3	DUP-07	Total/NA	Water	8260D
MB 240-563874/9	Method Blank	Total/NA	Water	8260D
LCS 240-563874/5	Lab Control Sample	Total/NA	Water	8260D

Analysis Batch: 564027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-180976-2	MW-80SR_022223	Total/NA	Water	8260D SIM	
240-180976-3	DUP-07	Total/NA	Water	8260D SIM	
MB 240-564027/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-564027/4	Lab Control Sample	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-180976-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_157

Lab Sample ID: 240-180976-1 Date Collected: 02/22/23 00:00 Matrix: Water

Date Received: 02/25/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	563874	HMB	EET CAN	03/01/23 16:53

Client Sample ID: MW-80SR_022223 Lab Sample ID: 240-180976-2

Date Collected: 02/22/23 11:05 Matrix: Water

Date Received: 02/25/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	563874	НМВ	EET CAN	03/01/23 17:18
Total/NA	Analysis	8260D SIM		1	564027	BAJ	EET CAN	03/02/23 13:20

Client Sample ID: DUP-07 Lab Sample ID: 240-180976-3

Date Collected: 02/22/23 00:00 Matrix: Water

Date Received: 02/25/23 08:00

		Batch	Batch		Dilution	Batch			Prepared
F	Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
=	Total/NA	Analysis	8260D		1	563874	HMB	EET CAN	03/01/23 17:43
1	Total/NA	Analysis	8260D SIM		1	564027	BAJ	EET CAN	03/02/23 13:44

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: 240-180976-1

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

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

Test	TestAmerica Laboratory location: Brighton 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	n Drive, Suite 200 / Brighton, MI 48116 / 810-22		THE LEADER IN ENVIRONMENTAL TESTING
Client Contact	Regulatory program: DW	- NPDES - RCRA - Other		
Company Name: Arcadis	Clinat Danicat Manager Late 1			TestAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500	CHERT Project Manager: Aris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	COC No:
City/State/Zip: Novi, MI, 48377	Telephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	1 of 1
Phone: 248-994-2240	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	vlino
	Sampler Name:	TAT if different from below		Walk-in client
Project Name: Ford LTP Off-Site	San Sykaria	10 day • 2 weeks		ľah sammling
Project Number: 30167538.402.04		1 week	8	
PO # 30167538.402.04	Shipping/Tracking No:	e (X /	85608	Job/SDG No.
	Matrix	/ ⊃≕	B DCE	
Sample Identification	Sample Date Air Aducous Sediment Solid Other:	1'1-DCE 8 Combosite Eliteteq 28 Ottpet: Nath Nath HCI HNO3 H7204	ois-1,2-DC Trans-1,2- PCE 82608 Vinyl Chlor 1,4-Dioxan	Sample Specific Notes / Special Instructions:
O TRIP BLANK_ \S7	1/12/23 1	1 N G X	× × × ×	1 Trip Blank
" MW-80sf. @ 22233 @	3 Soll ataba	9	× × × × × ×	3 VOAs for 8260B 3 VOAs for 8260B SIM
o DMP-07	3 - 52/24/2	9		
•	,			
e 18				
3 of 2				
20			240-160976 Chair of Custody	
Possible Hazard Identification Von-Hazard Flammable Skin Irritant	fant Poison R Tinknoum	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return to Client Disposed Disposed Delication D	the are retained longer than 1 month	
ons/QC Requirements & Comments: ss: / To f	OW (55) om. Cadena #E203631	retainteenen en Disposa by La	Author Fol 1 Months	
Relinquished by:	Company: Date/Time:	Received by:	Sylv Company: Area	Date/Time:
(afra	SAF.	Received by:	Company:	Date/Time: 2/74/72 / 10 (2)
Relinquished by:	Company Date/Time:	Received in Laboratory by:	Ne Or Company: TNC	523
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<u>TestAmerica</u>

Chain of Custody Record

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1 2	ogin # : <u>809</u>	10
Barberton Facility	Cooler un	packed by:
Client Arcadi Site Name	2	La Da
Cooler Received on 3-25-33 Opened on 2-2/-1	7 100	- VOJ 90
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Cour		0
Receipt After-hours: Drop-off Date/Time Storage L		
Eurofins Cooler # Foam Box Client Cooler Box Other		
	Other	and the state of t
COOLANT: Vet Ice Blue Ice Dry Ice Water None	G. I. P.	
	e Cooler Form 1 Cooler Temp.	°C
	d Cooler Temp	_℃ ℃
		_ ℃
100	1.	
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity (CA)		Tests that are not
-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)?	Yes No NA	checked for pH by
-Were tamper/custody seals intact and uncompromised?	Yes No NA	Receiving:
3. Shippers' packing slip attached to the cooler(s)?	Yes (No)	VOAs
4. Did custody papers accompany the sample(s)?	Yes No	Oil and Grease
5. Were the custody papers relinquished & signed in the appropriate place?	Yes No	TOC
6. Was/were the person(s) who collected the samples clearly identified on the COC		
7. Did all bottles arrive in good condition (Unbroken)?	Ve No	
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes No	\rightarrow
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N)		rab/comp(Y/N)?
10. Were correct bottle(s) used for the test(s) indicated?	(Yes)No	
11. Sufficient quantity received to perform indicated analyses?	Yes No	
12. Are these work share samples and all listed on the COC?	Yes (No	
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?	Yos No(NA)pH	Strip Lot# HC203864
14. Were VOAs on the COC?	Yes No	
15. Were air bubbles >6 mm in any VOA vials? Larger than this	Yes No NA	
16. 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 Q Z by via V	erbal Voice Mail Othe	r
Concerning #18		
Concerning ++ 10		
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	page Samples proce	acced by:
		issed by.
No tests marked for Dyp-07. Wi	1 la Dec	nothes
Ceccivica		
- ICCIOCAT		
19. SAMPLE CONDITION		
Sample(s) were received after the recommended	ed holding time had expi	ired.
	eceived in a broken cont	
Sample(s) were received with bubble >	6 mm in diameter. (Noti	ify PM)
20. SAMPLE PRESERVATION		
Sample(s)	ere further preserved in	the laboratory.
Sample(s)	or a memor broson too m	
VOA Sample Preservation - Date/Time VOAs Frozen:		

		Eurofins - Canto	n Sample Receipt M	ultiple Cooler Form	
Cooler D	Description	IR Gun #	Observed	Corrected	Coolant
	ircle)	(Circle)	Temp °C	Temp °C	(Circle)
EC Client	Box Other	IR-13 IR-16 IR-17	0.6	0.4	Wet ice Blue ice Dry ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17	0,8	0.6	Wet ice Blue ice Dry ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Sive ice Dry ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Sive ice Dry ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wel ice Sive ice Dy ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wellice Blue Ice Dry Ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wellice Blue Ice Dylice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue Ice Dry ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue Ice Dry ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue Ice Dry Ice Water None
EC Client	Box Other	ik-13 ik-16 ik-17			Wet Ice Blue Ice Dry Ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client	Box Other	R-13 R-16 R-17			Wel ice Blue ice Dry ice Water None
EC Client	Box Other	〒-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client	Box Other	R-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Sive Ice Dry ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Sive Ice Dry ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
FC Client	Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue Ice Dry ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
				☐ See Tempe	erature Excursion Form

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

DATA VERIFICATION REPORT



March 06, 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: 30146655.402.04 off-site

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

Laboratory submittal: 180976-1 Sample date: 2023-02-22

Report received by CADENA: 2023-03-03

Initial Data Verification completed by CADENA: 2023-03-06

Number of Samples:3 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 issues as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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 - Barberton

Laboratory Submittal: 180976-1

		Sample Name:	TRIP BLA	NK_157	7		MW-809	SR_0222	23		DUP-07			
		Lab Sample ID:	2401809	9761			2401809	9762			2401809	9763		
		Sample Date:	2/22/20	23			2/22/20	23			2/22/20	23		
				Report		Valid		Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC														
OSW-82	260D													
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		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		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		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		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		2.3	1.0	ug/l		2.1	1.0	ug/l	
OSW-82	260DSIM													
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-180976-1

CADENA Verification Report: 2023-03-06

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49033R Review Level: Tier III Project: 30167538.601.01

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-180976-1 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_157	240-180976-1	Water	02/22/23		Х	
MW-80SR_022223	240-180976-2	Water	02/22/23		Х	Х
DUP-07	240-180976-3	Water	02/22/23	MW-80SR_022223	Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Repo	orted		mance ptable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
2. Requested analyses and sample results		Х		Х	
Master tracking list		Х		Х	
4. Methods of analysis		Х		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		X	
10. Fully executed Chain-of-Custody (COC) form		Х		X	
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.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-80SR_022223 / DUP-07	Vinyl chloride	2.3	2.1	AC

Notes:

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

6. Compound Identification

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

All identified compounds met the specified criteria.

7. System Performance and Overall Assessment

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

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance eptable	Not Required	
	No Yes					
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)					
Tier II Validation						
Holding times/Preservation		Х		Х		
Tier III Validation						
System performance and column resolution		Х		Х		
Initial calibration %RSDs		Х		Х		
Continuing calibration RRFs		Х		Х		
Continuing calibration %Ds		Х		Х		
Instrument tune and performance check		Х		Х		
Ion abundance criteria for each instrument used		Х		Х		
Field Duplicate RPD		Х		Х		
Internal standard		Х		Х		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		Х		Х		
B. Quantitation Reports		Х		Х		
C. RT of sample compounds within the established RT windows		Х		Х		
D. Transcription/calculation errors present		Х		X		
E. Reporting limits adjusted to reflect sample dilutions		Х		Х		

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Dilip Kumar

SIGNATURE:

DATE: March 24, 2023

PEER REVIEW: Andrew Korycinski

DATE: March 24, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN

Chain of Custody Record

<u>TestAmerica</u>

TestAmerica Laboratory location: Brighton — 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 **Client Contact** - DW □ NPDES RCRA Other Regulatory program: Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico COC No: Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 1 of 1 COCs Analysis Turnaround Time Analyses Email: kristoffer.hinskey@arcadis.com For lab use only Phone: 248-994-2240 TAT if different from below Sampler Name: Walk-in client Project Name: Ford LTP Off-Site 3 weeks ✓ 2 weeks Lab sampling Project Number: 30167538.402.04 1 week 1,4-Dioxane 8260B SIM ed Sample (Y / N) 2 days Trans-1,2-DCE 8260B Vinyl Chloride 8260B PO # 30167538.402.04 ☐ I day Shipping/Tracking No: Job/SDG No: Matrix Containers & Preservatives Sample Specific Notes / HNO3 NAOH Special Instructions: Ę Sample Identification Sample Date Sample Time X TRIP BLANK IGI 1 Trip Blank X X 3 VOAs for 8260B 6 XX X 3 VOAs for 8260B SIM 6 240-180976 Chain of Custody Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Skin Irritant Unknown Disposal By Lab ✓ Non-Hazard Flammable Poison B Return to Client Archive For Special Instructions/QC Requirements & Comments: Sample Address: 2088
Submit all results through Cadena at itomalia@cad enaco.com, Cadena #E203631 Level IV Reporting requested. Relinquished by: Relinquished by: Relinquished by: Received in Laboratory by:

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Client: ARCADIS U.S., Inc. Job ID: 240-180976-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_157

Lab Sample ID: 240-180976-1 Date Collected: 02/22/23 00:00 **Matrix: Water**

Date Received: 02/25/23 08:00

Method: SW846 8260D - Vo	_	-				_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/01/23 16:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/23 16:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 16:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/23 16:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 16:53	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/23 16:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137					03/01/23 16:53	1
4-Bromofluorobenzene (Surr)	125		56 ₋ 136					03/01/23 16:53	1
Toluene-d8 (Surr)	97		78 - 122					03/01/23 16:53	1
Dibromofluoromethane (Surr)	114		73 - 120					03/01/23 16:53	1

Client Sample ID: MW-80SR_022223

Date Collected: 02/22/23 11:05

Date Received: 02/25/23 08:00

1,2-Dichloroethane-d4 (Surr)

Lab Sample ID: 240-180976-2 **Matrix: Water**

 Volatile Orga 	anic Comp	ounds (GC/N	IS)					
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2.0	U	2.0	0.86	ug/L			03/02/23 13:20	1
	Qualifier	Limits			-	Prepared	Analyzed 03/02/23 13:20	Dil Fac
	Result 2.0 %Recovery	Result Qualifier 2.0 U %Recovery Qualifier	Result Qualifier RL 2.0 U 2.0 %Recovery Qualifier Limits	2.0 U 2.0 0.86 %Recovery Qualifier Limits	Result Qualifier RL MDL Unit 2.0 0.86 ug/L %Recovery Qualifier Limits	Result Qualifier RL MDL Unit D 2.0 0.86 ug/L	Result 2.0 Qualifier Qualifier RL 2.0 MDL unit ug/L D Prepared %Recovery Qualifier Limits Limits Prepared	Result 2.0 U Qualifier 2.0 U RL 2.0 U MDL ug/L Unit ug/L D ug/L Prepared 03/02/23 13:20 %Recovery Qualifier Limits Prepared Analyzed

Method: SW846 8260D - Vo	latile Organic	Compounds	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			03/01/23 17:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/23 17:18	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 17:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/23 17:18	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 17:18	1
Vinyl chloride	2.3		1.0	0.45	ug/L			03/01/23 17:18	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		62 - 137	_		03/01/23 17:18	1
4-Bromofluorobenzene (Surr)	120		56 - 136			03/01/23 17:18	1
Toluene-d8 (Surr)	96		78 - 122			03/01/23 17:18	1
Dibromofluoromethane (Surr)	113		73 - 120			03/01/23 17:18	1

Client Sample ID: DUP-07 Lab Sample ID: 240-180976-3 Date Collected: 02/22/23 00:00 **Matrix: Water** Data Pacaiyad: 02/25/23 08:00

Method: SW846 8260D S	SIM - Volatile Orga	anic Comp	ounds (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			03/02/23 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

66 - 120

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Eurofins Canton

03/02/23 13:44

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Client: ARCADIS U.S., Inc. Job ID: 240-180976-1

Project/Site: Ford LTP - Off Site

Client Sample ID: DUP-07 Lab Sample ID: 240-180976-3

Date Collected: 02/22/23 00:00 Matrix: Water Date Received: 02/25/23 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/01/23 17:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/23 17:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 17:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/23 17:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 17:43	1
Vinyl chloride	2.1		1.0	0.45	ug/L			03/01/23 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		62 - 137					03/01/23 17:43	1
4-Bromofluorobenzene (Surr)	121		56 ₋ 136					03/01/23 17:43	1
Toluene-d8 (Surr)	98		78 - 122					03/01/23 17:43	1
Dibromofluoromethane (Surr)	118		73 - 120					03/01/23 17:43	1