# PREPARED FOR

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

Generated 3/17/2023 8:17:03 AM

# **JOB DESCRIPTION**

Ford LTP - Off Site

# **JOB NUMBER**

240-181755-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203

# **Eurofins Canton**

# **Job Notes**

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# **Authorization**

Generated 3/17/2023 8:17:03 AM

Authorized for release by Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)497-9396 Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-181755-1

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# **Definitions/Glossary**

Client: ARCADIS U.S., Inc. Job ID: 240-181755-1

Project/Site: Ford LTP - Off Site

Qualifiers
GC/MS VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery

CFL Contains Free Liquid

CFU Colony Forming Unit

CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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# **Case Narrative**

Client: ARCADIS U.S., Inc.

Job ID: 240-181755-1

Project/Site: Ford LTP - Off Site

Job ID: 240-181755-1

**Laboratory: Eurofins Canton** 

Narrative

Job Narrative 240-181755-1

### Receipt

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

# GC/MS VOA

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

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# **Method Summary**

Client: ARCADIS U.S., Inc. Job ID: 240-181755-1 Project/Site: Ford LTP - Off Site

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

# **Sample Summary**

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-181755-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-181755-1	TRIP BLANK_64	Water	03/08/23 00:00	03/11/23 08:00
240-181755-2	MW-101S_030823	Water	03/08/23 16:15	03/11/23 08:00

# **Detection Summary**

Client: ARCADIS U.S., Inc. Job ID: 240-181755-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK\_64 Lab Sample ID: 240-181755-1

No Detections.

Client Sample ID: MW-101S\_030823 Lab Sample ID: 240-181755-2

No Detections.

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# **Client Sample Results**

Client: ARCADIS U.S., Inc. Job ID: 240-181755-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK\_64

Lab Sample ID: 240-181755-1 Date Collected: 03/08/23 00:00

Matrix: Water

Date Received: 03/11/23 08:00

Method: SW846 8260D - Volati	ile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/14/23 14:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/14/23 14:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/14/23 14:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/14/23 14:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/14/23 14:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/14/23 14:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			_		03/14/23 14:04	1
4-Bromofluorobenzene (Surr)	87		56 <sub>-</sub> 136					03/14/23 14:04	1
Toluene-d8 (Surr)	94		78 - 122					03/14/23 14:04	1
Dibromofluoromethane (Surr)	98		73 - 120					03/14/23 14:04	1

**Eurofins Canton** 

# **Client Sample Results**

Client: ARCADIS U.S., Inc. Job ID: 240-181755-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-101S\_030823

Date Collected: 03/08/23 16:15 Date Received: 03/11/23 08:00

Surrogate

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Lab Sample ID: 240-181755-2

Prepared

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			03/17/23 03:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		66 - 120			-		03/17/23 03:31	1
Method: SW846 8260D - Volat Analyte		ounds by G Qualifier	C/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		•		MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result 1.0	Qualifier U		0.49	ug/L	<u>D</u> .	Prepared	03/14/23 17:24	Dil Fac
Analyte	Result	Qualifier U	RL	0.49		<u>D</u> -	Prepared		<b>Dil Fac</b> 1 1
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U	RL	0.49 0.46	ug/L	<u> </u>	Prepared	03/14/23 17:24	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0 1.0	Qualifier U U U	1.0 1.0	0.49 0.46 0.44	ug/L ug/L	<u>D</u> -	Prepared	03/14/23 17:24 03/14/23 17:24	Dil Fac 1 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	Result 1.0 1.0 1.0	Qualifier U U U U	1.0 1.0 1.0	0.49 0.46 0.44 0.51	ug/L ug/L ug/L	<u>D</u> .	Prepared	03/14/23 17:24 03/14/23 17:24 03/14/23 17:24	

Limits

62 - 137

56 - 136

78 - 122

73 - 120

%Recovery Qualifier

108

85

93

100

**Eurofins Canton** 

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Dil Fac

Analyzed

03/14/23 17:24

03/14/23 17:24

03/14/23 17:24

03/14/23 17:24

13

# **Surrogate Summary**

Client: ARCADIS U.S., Inc. Job ID: 240-181755-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recov				
		DCA	BFB	TOL	DBFM		
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)		
240-181755-1	TRIP BLANK_64	107	87	94	98		
240-181755-2	MW-101S_030823	108	85	93	100		
240-181761-F-2 MS	Matrix Spike	106	85	92	97		
240-181761-I-2 MSD	Matrix Spike Duplicate	103	88	92	96		
LCS 240-565310/5	Lab Control Sample	107	92	97	100		
MB 240-565310/8	Method Blank	110	90	95	97		

# 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)	
240-181755-2	MW-101S_030823	87	
240-181761-B-2 MS	Matrix Spike	95	
240-181761-E-2 MSD	Matrix Spike Duplicate	89	
LCS 240-565713/4	Lab Control Sample	81	
MB 240-565713/6	Method Blank	76	

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

Job ID: 240-181755-1

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

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

Lab Sample ID: MB 240-565310/8

**Matrix: Water** 

Analysis Batch: 565310

Client Sample ID: Method Blank

Prep Type: Total/NA

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			03/14/23 13:39	1
I	cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/14/23 13:39	1
	Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/14/23 13:39	1
I	trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/14/23 13:39	1
I	Trichloroethene	1.0	U	1.0	0.44	ug/L			03/14/23 13:39	1
	Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/14/23 13:39	1
ı										

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

Lab Sample ID: LCS 240-565310/5

**Matrix: Water** 

Analysis Batch: 565310

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	17.6		ug/L		88	63 - 134	
cis-1,2-Dichloroethene	20.0	18.6		ug/L		93	77 - 123	
Tetrachloroethene	20.0	20.7		ug/L		103	76 - 123	
trans-1,2-Dichloroethene	20.0	19.9		ug/L		100	75 - 124	
Trichloroethene	20.0	20.1		ug/L		100	70 - 122	
Vinyl chloride	20.0	21.8		ug/L		109	60 - 144	

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

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

**Matrix: Water** 

Analysis Batch: 565310

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

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	20.0	16.6		ug/L		83	56 - 135
cis-1,2-Dichloroethene	1.0	U	20.0	17.0		ug/L		85	66 - 128
Tetrachloroethene	1.0	U	20.0	18.6		ug/L		93	62 - 131
trans-1,2-Dichloroethene	1.0	U	20.0	18.4		ug/L		92	56 - 136
Trichloroethene	1.0	U	20.0	18.5		ug/L		92	61 - 124
Vinyl chloride	1.0	U	20.0	20.8		ug/L		104	43 - 157

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

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Project/Site: Ford LTP - Off Site

Job ID: 240-181755-1 Client: ARCADIS U.S., Inc.

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

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

**Matrix: Water** 

Analysis Batch: 565310

Dibromofluoromethane (Surr)

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS Surrogate

%Recovery Qualifier Limits 97 73 - 120

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

**Matrix: Water** 

Analysis Batch: 565310

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

MSD MSD %Rec RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 1,1-Dichloroethene 1.0 U 20.0 16.5 ug/L 82 56 - 135 26 cis-1,2-Dichloroethene 1.0 U 20.0 17 1 86 66 - 128 ug/L 14 Tetrachloroethene 1.0 U 20.0 19.0 ug/L 95 62 - 131 20 trans-1.2-Dichloroethene ug/L 15 1.0 U 20.0 18.4 92 56 - 136 0 Trichloroethene 1.0 U 20.0 17.7 ug/L 89 61 - 124 15 Vinyl chloride 1.0 U 20.0 21.5 ug/L 107 43 - 157 24 3

MSD MSD

MR MR

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

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

Lab Sample ID: MB 240-565713/6

**Matrix: Water** 

Analysis Batch: 565713

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Limits

80 - 122

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 03/16/23 23:53 MB MB

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

Lab Sample ID: LCS 240-565713/4

Analyte

1,4-Dioxane

**Matrix: Water** Prep Type: Total/NA Analysis Batch: 565713 Spike LCS LCS %Rec

Result

10.8

Qualifier

Unit

ug/L

D

%Rec

108

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

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

Matr

**Ana** 

o Sample ID: 240-181761-B-2 MS				Client Sample ID: Matrix Spike
trix: Water				Prep Type: Total/NA
alysis Batch: 565713				
Samp	le Sample	Spike	MS MS	%Rec

MS Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 2.0 U 10.0 13.6 ug/L 136 51 - 153

Added

10.0

**Eurofins Canton** 

# **QC Sample Results**

Client: ARCADIS U.S., Inc. Job ID: 240-181755-1

Project/Site: Ford LTP - Off Site

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

%Recovery Qualifier

89

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

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

**Matrix: Water** 

Surrogate

1,2-Dichloroethane-d4 (Surr)

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	13.4		ug/L		134	51 - 153	1	16
	MSD	MSD									

Limits

66 - 120

**Client Sample ID: Matrix Spike Duplicate** 

# **QC Association Summary**

Client: ARCADIS U.S., Inc. Job ID: 240-181755-1

Project/Site: Ford LTP - Off Site

**GC/MS VOA** 

# Analysis Batch: 565310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-181755-1	TRIP BLANK_64	Total/NA	Water	8260D	
240-181755-2	MW-101S_030823	Total/NA	Water	8260D	
MB 240-565310/8	Method Blank	Total/NA	Water	8260D	
LCS 240-565310/5	Lab Control Sample	Total/NA	Water	8260D	
240-181761-F-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-181761-I-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

# Analysis Batch: 565713

Lab Saı	mple ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-181	1755-2	MW-101S_030823	Total/NA	Water	8260D SIM	
MB 240	-565713/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 24	0-565713/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-181	1761-B-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-181	1761-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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# **Lab Chronicle**

Client: ARCADIS U.S., Inc. Job ID: 240-181755-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK\_64

Lab Sample ID: 240-181755-1 Date Collected: 03/08/23 00:00

Matrix: Water

Date Received: 03/11/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	565310	TES	EET CAN	03/14/23 14:04

Client Sample ID: MW-101S\_030823 Lab Sample ID: 240-181755-2

Date Collected: 03/08/23 16:15 Matrix: Water

Date Received: 03/11/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	565310	TES	EET CAN	03/14/23 17:24
Total/NA	Analysis	8260D SIM		1	565713	BAJ	EET CAN	03/17/23 03:31

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: 240-181755-1

Project/Site: Ford LTP - Off Site

# **Laboratory: Eurofins Canton**

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-23 *
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-27-23 *
Illinois	NELAP	200004	07-31-23
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23 *
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-23 *
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-27-23 *
Ohio VAP	State	CL0024	02-27-23 *
Oregon	NELAP	4062	02-28-24
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

**Eurofins Canton** 

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

190 190				Chain	of Cus	Chain of Custody Record	Record							TestAmeric	i.
	TestAmerica Laboratory location: Br	tory location:	Brighton — 1(	0448 Citatio	n Drive, Su	ite 200 / Bri	ighton — 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	116 / 81	0-229-27	83				THE LEADER IN ENVIRONMENT	MTAL TESTING
Client Contact Company Name: Arcadis	Regulat	Regulatory program:	L	DW	NPDES	L	RCRA	Other	L let					:	
	Client Project A	Client Project Manager: Kris Hinskey	linskey		Site Conta	Site Contact: Christina Weaver	a Weaver		1	Lab Contact: Mike DelMonico	t: Mike	)el:Moni	0.	lestAmerica Laboratories, Inc.  COC No:	atories, Inc
Address: 28550 Cabot Drive, Suite 500	Telephone: 248-994-2240	994-2240			Telephone	Telenbone: 248-994-2240	740		F	Telenhone: 330 407 0304	110 407	910			
City/State/Zip: Novi, MI, 48377									٦					1 of 1	cocs
Phone: 248-994-2240	Email: Kristoff	rmail: kristoller.hinskey@arcadis.com	adis.com		Almi V	sis i uriburou	all I III			-	t	Analyses	ies	For lab use only	
Project Name: Ford LTP Off-Site	Sampler Name:	CAMP.	obedo 1	d	TAT if differ	TAT if different from below  3 weeks	ecks							Walk-in client	
Project Number: 30167538.402.04	Method of Shipment/Carrier:	ment/Carrier:			10 083	LI	sek sek	_					MIS	Lab sampling	
PO# 30167538.402.04	Shipping/Tracking No:	ing No:				Z days ☐ 1 day	y y			_		80928	S 809	Job/SDG No:	
			Matrix	rix	Contra	Containers & Preservativ	rvatives		_	_			Z8 əu		
Sample Identification	Sample Date	Sample Time	Aqueous Sediment	Solid Other:	H72Ot	HCI NaOH	Unpres:	Filtered S Composit	1,1-DCE	.c.f-2,f-zio	LCE 8560	TCE 8260	ısxoi <b>Q-</b> 4, f	Sample Specific Notes / Special Instructions:	Notes / tions:
$oldsymbol{\circ}$ TRIP BLANK_ $oldsymbol{\circ}$	3-8-8	i	1			_		<u>B</u>	×	×	×	×		1 Trip Blank	
W11/1015 02037 Z	,	711						111	>	7	8	>	7	3 VOAs for 8260B	98
	<b>≯</b>	3	0)			-		2		4				3 VOAs for 826	OB SIM
				-						+		-			
										+		+			
									$\pm$	+	$\pm$	+			
											stody	of Cu	240-181755 Chain of Custody	20	
									<u> </u>	_	-				
Possible Hazard Identification  Non-Hazard Flammable Skin Irritant	ritant Poison B		Unknown		Sample	le Disposal (Af Retum to Client	ce may be	assessed if sam	samples	are retai	ained longer Archive For	than	month)		
Mouts & Commen	co.com. Cadena #8							(a prode	Fac			-	Single Si		
Relinquished by:	Company:	0	Date/Time			Received by	þv				<u> </u>	Aucun		H.	
Relinquished by:	-	( (wa) (	Date Tin		11/5		Nout	W.	3	25	STORACE Company	Company	ARCHOES	3-8-72 / Date/Time: /	1715
Relinquished by	Company	ACED 0	Date/Time		25.50		Receired in Laboratory by	12	3	1	్రి	Company	3 2	3-10-73 24-17-73 24-17-73	X CS
\$2000. TestAmerica Laboratories. Inc. Al richts reserved. LestAmerica & Design "are bratements of FestAmerica Laboratories, Inc.			,					1							

Eurofins - Canton Sample Receipt Form/Narrative Login # Barberton Facility	:
Client Fract Site Name	Cooler unpacked by:
Cooler Received on 3-11-23 Opened on 3-11-23	Mandaly
	Other
Receipt After-hours: Drop-off Date/Time Storage Location	
Eurofins Cooler # CON Foam Box Client Cooler Box Other	
COOLANT: Wet Ice Blue Ice Dry Ice Water None	
1. Cooler temperature upon receipt  IR GUN # IR-13 (CF -0.2 °C) Observed Cooler Temp.  See Multiple Cooler I  °C Corrected Coole	
IR GUN # IR-15 (CF -0.1°C) Observed Cooler Temp C Corrected Cooler IR GUN # IR-16 (CF -0.1°C) Observed Cooler Temp C Corrected Cooler	
IR GUN # IR-17 (CF -0.3°C) Observed Cooler Temp°C Corrected Coole	
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity	a No
	No NA Tests that are not checked for pH by
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	es N Receiving:
	No NA
	vOAs Oil and Grease
4. Did custody papers accompany the sample(s)?	S NO TOC
5. Were the custody papers relinquished & signed in the appropriate place?	e No
6. Was/were the person(s) who collected the samples clearly identified on the COC?  7. Did all bottles arrive in good condition (Unbroken)?	s No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	No O
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and	
10. Were correct bottle(s) used for the test(s) indicated?	e No
11. Sufficient quantity received to perform indicated analyses?	ed No
	es 🐶
If yes, Questions 13-17 have been checked at the originating laboratory.	
13. Were all preserved sample(s) at the correct pH upon receipt?  Y  14. Were VOAs on the COC?	es No NA pH Strip Lot# HC293086
	es No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	
17. Was a LL Hg or Me Hg trip blank present?	es (No)
Contacted PM Date by via Verbal	Voice Mail Other
Composition	
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES  additional next page	Samples processed by:
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES    additional next page	Samples processed by.
19. SAMPLE CONDITION	
Sample(s) were received after the recommended hol	lding time had expired.
Sample(s) were received	ed in a broken container.
Sample(s) were received with bubble >6 mm	n in diameter. (Notify PM)
20. SAMPLE PRESERVATION	
Sample(s) were f	further preserved in the laboratory.
Sample(s) were f Time preserved: Preservative(s) added/Lot number(s):	
VOA Sample Preservation - Date/Time VOAs Frozen:	

# DATA VERIFICATION REPORT



March 20, 2023

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

CADENA project ID: E203631

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

Project number: 30167538.402.04 off-site

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

Laboratory submittal: 181755-1 Sample date: 2023-03-08

Report received by CADENA: 2023-03-20

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

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

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

There were no significant QC anomalies or exceptions to report.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

**Project Scientist** 

# **CADENA Valid Qualifiers**

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

# **Analytical Results Summary**

**CADENA Project ID:** E203631

**Laboratory:** Eurofins Environment Testing LLC - Barberton

**Laboratory Submittal:** 181755-1

			TRIP BLANK_64 2401817551 3/8/2023			MW-101S_030823 2401817552 3/8/2023					
				Report		Valid		Report		Valid	
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	
GC/MS VOC											
<u>OSW-8260</u>											
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l		
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l		
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l		
OSW-8260	<u>DDSIM</u>										
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		



# Ford Motor Company – Livonia Transmission Project

# **Data Review**

# Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-181755-1

CADENA Verification Report: 2023-03-20

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49120R Review Level: Tier III Project: 30167538.601.01

# **SUMMARY**

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-181755-1 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		Analysis		
Sample ID	Lab ID	Matrix	Date	Fareni Samble		VOC SIM	
TRIP BLANK_64	240-181755-1	Water	03/08/23		Х		
MW-101S_030823	240-181755-2	Water	03/08/23		X	X	

# **ANALYTICAL DATA PACKAGE DOCUMENTATION**

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

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

### ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

# **VOLATILE ORGANIC COMPOUND (VOC) ANALYSES**

# 1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

# 2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

### 3. Calibration

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

# 3.1 Initial Calibration

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

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

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

# 3.2 Continuing Calibration

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

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

### 4. Internal Standard Performance

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

All internal standard responses were within control limits.

### 5. Field Duplicate Analysis

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

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

# 6. Compound Identification

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

No compounds were detected in the samples within this SDG.

# 7. System Performance and Overall Assessment

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

# **DATA VALIDATION CHECKLIST FOR VOCs**

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

# Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Hrishikesh Upadhyaya

SIGNATURE:

DATE: March 28, 2023

PEER REVIEW: Andrew Korycinski

DATE: March 28, 2023

# NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

# CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



# **Chain of Custody Record**



TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 Client Contact Regulatory program: DW □ NPDES RCRA Other 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 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 ✓ 2 weeks Lab sampling Project Number: 30167538.402.04 Method of Shipment/Carrier: 1 week 1,4-Dioxane 8260B SIM ple (Y / N) 2 days Vinyl Chloride 8260B PO # 30167538.402.04 Shipping/Tracking No: ☐ 1 day Job/SDG No: Matrix Containers & Preservatives **ICE 8260B** Sample Specific Notes / H2SO4 HOW НС **Special Instructions:** Sample Identification Sample Date Sample Time TRIP BLANK NG Χ X 1 Trip Blank 3 VOAs for 8260B 3 VOAs for 8260B SIM 240-181755 Chain of Custody Possible Hazard Identification Sample Disposal ( A fee may be assessed if samples are retained longer than I month) ▼ Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client Disposal By Lab Archive For Special Instructions/QC Requirements & Comments: Sample Address: PLYMOUTH ROW Submit all results through Cadena at jtomalia@cadenaco.com, Cadena #E203631 Level IV Reporting requested Relinquished by NOUT COW STORAGE 1715

Received by:

Received in Laboratory

HRCAOTS

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# **Client Sample Results**

Client: ARCADIS U.S., Inc. Job ID: 240-181755-1 Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK\_64

Lab Sample ID: 240-181755-1

Date Collected: 03/08/23 00:00 **Matrix: Water** Date Received: 03/11/23 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/14/23 14:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/14/23 14:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/14/23 14:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/14/23 14:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/14/23 14:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/14/23 14:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137					03/14/23 14:04	1
4-Bromofluorobenzene (Surr)	87		56 <sub>-</sub> 136					03/14/23 14:04	1
Toluene-d8 (Surr)	94		78 - 122					03/14/23 14:04	1
Dibromofluoromethane (Surr)	98		73 - 120					03/14/23 14:04	1

Client Sample ID: MW-101S\_030823 Lab Sample ID: 240-181755-2

Date Collected: 03/08/23 16:15 Date Received: 03/11/23 08:00							1116461174	: Wate
	nic Comp	ounds (GC/N	18)					
_	_	RL		Unit	D	Prepared	Analyzed	Dil Fa
2.0	U	2.0	0.86	ug/L		·	03/17/23 03:31	
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
87		66 - 120			-		03/17/23 03:31	
atile Organic	Compound	ds bv GC/MS						
_	•	RL		Unit	D	Prepared	Analyzed	Dil Fa
1.0	U	1.0	0.49	ug/L			03/14/23 17:24	-
1.0	U	1.0	0.46	ug/L			03/14/23 17:24	
1.0	U	1.0	0.44	ug/L			03/14/23 17:24	
1.0	U	1.0	0.51	ug/L			03/14/23 17:24	
1.0	U	1.0	0.44	ug/L			03/14/23 17:24	
1.0	U	1.0	0.45	ug/L			03/14/23 17:24	
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
108		62 - 137			-		03/14/23 17:24	
85		56 <sub>-</sub> 136					03/14/23 17:24	
93		78 - 122					03/14/23 17:24	
100		73 - 120					03/14/23 17:24	
•	- Volatile Orga Result 2.0  %Recovery 87  atile Organic Result 1.0 1.0 1.0 1.0 1.0 1.0 1.0 85 93	- Volatile Organic Comp Result Qualifier 2.0 U    Recovery   Qualifier     87     Atile Organic Compound     Result   Qualifier     1.0   U     1.0	- Volatile Organic Compounds (GC/N Result 2.0 U 2.0	- Volatile Organic Compounds (GC/MS)  Result Qualifier RL MDL  2.0 U 2.0 0.86    Recovery   Qualifier   Limits	- Volatile Organic Compounds (GC/MS)    Result   Qualifier   RL   MDL   Unit     2.0   U   2.0   0.86   ug/L	- Volatile Organic Compounds (GC/MS)  Result Qualifier RL MDL Unit D  2.0 U 2.0 0.86 ug/L     Recovery Qualifier Limits   66 - 120	- Volatile Organic Compounds (GC/MS)    Result   Qualifier   RL   MDL   Unit   ug/L	- Volatile Organic Compounds (GC/MS) Result Qualifier RL MDL Unit ug/L  2.0 U 2.0 0.86 ug/L    Weecovery Qualifier Limits 66-120   Prepared Manalyzed 03/17/23 03:31