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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 8/28/2023 2:57:44 PM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-190176-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



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Job Notes

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Authorization

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Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-190176-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-190176-1

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.
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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 US Inc

Job ID: 240-190176-1 Project/Site: Ford LTP - Off Site

Job ID: 240-190176-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-190176-1

Receipt

The samples were received on 8/15/2023 10:00 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 2.0°C and 2.2°C

GC/MS VOA

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 240-584983.

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

Project/Site: Ford LTP - Off Site

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

Protocol References:

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

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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Job ID: 240-190176-1

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Sample Summary

Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

Job ID: 240-190176-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-190176-1	TRIP BLANK_113	Water	08/14/23 00:00	08/15/23 10:00
240-190176-2	MW-128S_081423	Water	08/14/23 10:50	08/15/23 10:00

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Detection Summary

Client: ARCADIS US Inc Job ID: 240-190176-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_113 Lab Sample ID: 240-190176-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-190176-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_113

Date Collected: 08/14/23 00:00 Date Received: 08/15/23 10:00 Lab Sample ID: 240-190176-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/23/23 13:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/23/23 13:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/23/23 13:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/23/23 13:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/23/23 13:12	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/23/23 13:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		62 - 137					08/23/23 13:12	1
4-Bromofluorobenzene (Surr)	96		56 ₋ 136					08/23/23 13:12	1
Toluene-d8 (Surr)	109		78 - 122					08/23/23 13:12	1
Dibromofluoromethane (Surr)	110		73 - 120					08/23/23 13:12	1

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-190176-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-128S_081423

Date Collected: 08/14/23 10:50 Date Received: 08/15/23 10:00 Lab Sample ID: 240-190176-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/23/23 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			66 - 120					08/23/23 13:30	1
Method: SW846 8260D - Vo		Compound Qualifier	ds by GC/MS RL		Unit	D	Prepared	Analvzed	Dil Fac
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
		Qualifier	•			<u>D</u>	Prepared	Analyzed 08/24/23 16:32	Dil Fac
Analyte	Result	Qualifier U	RL	MDL	ug/L	<u> </u>	Prepared		Dil Fac
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U U		MDL 0.49	ug/L ug/L	<u> </u>	Prepared	08/24/23 16:32	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	1.0 1.0	Qualifier U U U	1.0 1.0	0.49 0.46	ug/L ug/L ug/L	<u>D</u>	Prepared	08/24/23 16:32 08/24/23 16:32	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	ug/L ug/L ug/L ug/L	<u>D</u>	Prepared	08/24/23 16:32 08/24/23 16:32 08/24/23 16:32	Dil Fac 1 1 1 1 1 1

Surrogate	%Recovery Qualifie	er Limits	Prepared A	nalyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123	62 - 137	08/2	4/23 16:32	1
4-Bromofluorobenzene (Surr)	101	56 ₋ 136	08/2	4/23 16:32	1
Toluene-d8 (Surr)	99	78 - 122	08/2	4/23 16:32	1
Dibromofluoromethane (Surr)	109	73 - 120	08/2	4/23 16:32	1

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-190176-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

			Pe	ercent Surro	ogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-190171-N-5 MS	Matrix Spike	97	78	90	96
240-190171-P-5 MSD	Matrix Spike Duplicate	102	90	101	100
240-190176-1	TRIP BLANK_113	114	96	109	110
240-190176-2	MW-128S_081423	123	101	99	109
LCS 240-584830/6	Lab Control Sample	101	95	103	101
LCS 240-584983/5	Lab Control Sample	113	98	99	107
MB 240-584830/10	Method Blank	107	85	100	103
MB 240-584983/9	Method Blank	116	97	98	108

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)	
240-190171-F-5 MS	Matrix Spike	115	
240-190171-F-5 MSD	Matrix Spike Duplicate	102	
240-190176-2	MW-128S_081423	107	
LCS 240-584837/5	Lab Control Sample	102	
MB 240-584837/7	Method Blank	103	

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

Client: ARCADIS US Inc Job ID: 240-190176-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-584830/10

Matrix: Water

Analysis Batch: 584830

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

MB MB Result Qualifier RL **MDL** Unit Dil Fac Analyte D Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 08/23/23 12:49 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 08/23/23 12:49 1.0 U 0.44 ug/L Tetrachloroethene 1.0 08/23/23 12:49 0.51 ug/L trans-1,2-Dichloroethene 1.0 U 1.0 08/23/23 12:49 Trichloroethene 1.0 U 1.0 0.44 ug/L 08/23/23 12:49 Vinyl chloride 1.0 U 1.0 0.45 ug/L 08/23/23 12:49

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 62 - 137 107 1,2-Dichloroethane-d4 (Surr) 08/23/23 12:49 4-Bromofluorobenzene (Surr) 85 56 - 136 08/23/23 12:49 100 78 - 122 Toluene-d8 (Surr) 08/23/23 12:49 Dibromofluoromethane (Surr) 103 73 - 120 08/23/23 12:49

Lab Sample ID: LCS 240-584830/6

Matrix: Water

Analysis Batch: 584830

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits 20.0 63 - 134 1,1-Dichloroethene 21.9 ug/L 110 cis-1,2-Dichloroethene 20.0 22.5 ug/L 112 77 - 123 Tetrachloroethene 20.0 19.3 97 76 - 123 ug/L 75 - 124 trans-1.2-Dichloroethene 20.0 21.0 ug/L 105 Trichloroethene 20.0 19.6 ug/L 98 70 - 122 74 Vinyl chloride 20.0 14.8 ug/L 60 - 144

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 101 62 - 137 4-Bromofluorobenzene (Surr) 95 56 - 136 Toluene-d8 (Surr) 103 78 - 122 73 - 120 Dibromofluoromethane (Surr) 101

Lab Sample ID: 240-190171-N-5 MS

Matrix: Water

Analysis Batch: 584830

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

Sample	Sample	Spike	MS	MS				%Rec	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1.0	U	20.0	21.3		ug/L		107	56 - 135	
1.0	U	20.0	20.5		ug/L		102	66 - 128	
1.0	U	20.0	16.2		ug/L		81	62 - 131	
1.0	U	20.0	19.6		ug/L		98	56 - 136	
1.0	U	20.0	17.8		ug/L		89	61 - 124	
1.0	U	20.0	15.9		ug/L		80	43 - 157	
	Result 1.0 1.0 1.0 1.0 1.0 1.0	Sample Result Qualifier	Result Qualifier Added 1.0 U 20.0 1.0 U 20.0	Result Qualifier Added Result 1.0 U 20.0 21.3 1.0 U 20.0 20.5 1.0 U 20.0 16.2 1.0 U 20.0 19.6 1.0 U 20.0 17.8	Result Qualifier Added Result Qualifier 1.0 U 20.0 21.3 1.0 U 20.0 20.5 1.0 U 20.0 16.2 1.0 U 20.0 19.6 1.0 U 20.0 17.8	Result Qualifier Added Result Qualifier Unit 1.0 U 20.0 21.3 ug/L 1.0 U 20.0 20.5 ug/L 1.0 U 20.0 16.2 ug/L 1.0 U 20.0 19.6 ug/L 1.0 U 20.0 17.8 ug/L	Result Qualifier Added Result Qualifier Unit D 1.0 U 20.0 21.3 ug/L 1.0 U 20.0 20.5 ug/L 1.0 U 20.0 16.2 ug/L 1.0 U 20.0 19.6 ug/L 1.0 U 20.0 17.8 ug/L	Result Qualifier Added Result Qualifier Unit D %Rec 1.0 U 20.0 21.3 ug/L 107 1.0 U 20.0 20.5 ug/L 102 1.0 U 20.0 16.2 ug/L 81 1.0 U 20.0 19.6 ug/L 98 1.0 U 20.0 17.8 ug/L 89	Result Qualifier Added Result Qualifier Unit D %Rec Limits 1.0 U 20.0 21.3 ug/L 107 56 - 135 1.0 U 20.0 20.5 ug/L 102 66 - 128 1.0 U 20.0 16.2 ug/L 81 62 - 131 1.0 U 20.0 19.6 ug/L 98 56 - 136 1.0 U 20.0 17.8 ug/L 89 61 - 124

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	78		56 - 136
Toluene-d8 (Surr)	90		78 - 122

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Job ID: 240-190176-1

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

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

Lab Sample ID: 240-190171-N-5 MS

Matrix: Water

Analysis Batch: 584830

MS MS

Limits Surrogate %Recovery Qualifier Dibromofluoromethane (Surr) 96 73 - 120

Lab Sample ID: 240-190171-P-5 MSD

Matrix: Water

Analysis Batch: 584830

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec 1.0 U 1,1-Dichloroethene 20.0 21.5 ug/L 107 56 - 135 26 cis-1,2-Dichloroethene 1.0 U 20.0 20.7 ug/L 104 66 - 128 14 1 Tetrachloroethene 1.0 U 20.0 18.0 ug/L 90 62 - 131 20 trans-1,2-Dichloroethene 1.0 U 20.0 19.7 ug/L 56 - 136 0 15 99 Trichloroethene 1.0 U 20.0 18.2 ug/L 91 61 - 124 2 15 Vinyl chloride 1.0 U 20.0 16.0 ug/L 43 - 157 24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		62 - 137
4-Bromofluorobenzene (Surr)	90		56 - 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

Lab Sample ID: MB 240-584983/9

Matrix: Water

Analysis Batch: 584983

Client Sample ID: Method Blank

Prep Type: Total/NA

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/24/23 09:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/24/23 09:45	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/24/23 09:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/24/23 09:45	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/24/23 09:45	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/24/23 09:45	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		62 - 137		08/24/23 09:45	1
4-Bromofluorobenzene (Surr)	97		56 - 136		08/24/23 09:45	1
Toluene-d8 (Surr)	98		78 - 122		08/24/23 09:45	1
Dibromofluoromethane (Surr)	108		73 - 120		08/24/23 09:45	1

Lab Sample ID: LCS 240-584983/5

Matrix: Water

Analysis Batch: 584983

Client Sample ID: La	ab Control Sample
Pi	rep Type: Total/NA

•	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	20.0	24.0		ug/L		120	63 - 134
cis-1,2-Dichloroethene	20.0	20.7		ug/L		103	77 - 123
Tetrachloroethene	20.0	19.5		ug/L		98	76 - 123
trans-1,2-Dichloroethene	20.0	22.0		ug/L		110	75 - 124
Trichloroethene	20.0	19.7		ug/L		99	70 - 122

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Client: ARCADIS US Inc Job ID: 240-190176-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: LCS 240-584983/5 **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA**

Analysis Batch: 584983

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Vinyl chloride	20.0	17.8		ug/L		89	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	99		78 - 122
Dibromofluoromethane (Surr)	107		73 - 120

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

Lab Sample ID: MB 240-584837/7 **Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA**

Analysis Batch: 584837

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			08/23/23 10:43	1
	МВ	МВ							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 103 66 - 120 08/23/23 10:43

Lab Sample ID: LCS 240-584837/5

Matrix: Water

Analysis Batch: 584837

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1 4-Dioxane	10.0	9 93		ua/I		99	80 - 122	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1 2-Dichloroethane-d4 (Surr)	102	66 - 120

Lab Sample ID: 240-190171-F-5 MS

Matrix: Water

Analysis Batch: 584837

7 maryolo Batom co 1001										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1.4-Diovane	2.0	П	10.0	10.7		ua/l		107	51 153	

MS MS

Surrogate	%Recovery Qualify	ier Limits
1,2-Dichloroethane-d4 (Surr)	115	66 - 120

Lab Sample ID: 240-190171-F-5 MSD

Matrix: Water

Analysis Batch: 584837

7 mar j ele Z atem ee lee:	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	11.5		ug/L		115	51 - 153	8	16

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Prep Type: Total/NA

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Client Sample ID: Matrix Spike

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

QC Sample Results

Client: ARCADIS US Inc Job ID: 240-190176-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 240-190171-F-5 MSD Matrix: Water

Analysis Batch: 584837

MSD MSD

Surrogate%RecoveryQualifierLimits1,2-Dichloroethane-d4 (Surr)10266 - 120

9

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

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QC Association Summary

Client: ARCADIS US Inc Job ID: 240-190176-1 Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 584830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190176-1	TRIP BLANK_113	Total/NA	Water	8260D	
MB 240-584830/10	Method Blank	Total/NA	Water	8260D	
LCS 240-584830/6	Lab Control Sample	Total/NA	Water	8260D	
240-190171-N-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-190171-P-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 584837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190176-2	MW-128S_081423	Total/NA	Water	8260D SIM	
MB 240-584837/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-584837/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-190171-F-5 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-190171-F-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 584983

Lab Sample ID 240-190176-2	Client Sample ID MW-128S_081423	Prep Type Total/NA	Matrix Water	Method 8260D	Prep Batch
MB 240-584983/9	Method Blank	Total/NA	Water	8260D	
LCS 240-584983/5	Lab Control Sample	Total/NA	Water	8260D	

Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-190176-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_113 Lab Sample ID: 240-190176-1

Date Collected: 08/14/23 00:00 **Matrix: Water** Date Received: 08/15/23 10:00

Batch Batch Batch Dilution Prepared Method **Prep Type Factor** Number Analyst or Analyzed Type Run Lab 08/23/23 13:12 Total/NA Analysis 8260D 584830 AJS EET CLE

Client Sample ID: MW-128S_081423 Lab Sample ID: 240-190176-2

Date Collected: 08/14/23 10:50 **Matrix: Water**

Date Received: 08/15/23 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	584983	AJS	EET CLE	08/24/23 16:32
Total/NA	Analysis	8260D SIM		1	584837	MRL	EET CLE	08/23/23 13:30

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 240-190176-1 Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Cleveland

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	02-27-24
Georgia	State	4062	02-27-24
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23 *
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-02-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-27-24
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

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

Eurofins Cleveland

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Company Name: Areadis								-			-							TestAmerica I	shorstories. Inc
Address: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris Hinskey	ager: Kris H	nskey		S	te Cont	ict: Ch	Site Contact: Christina Weaver	eaver			Lab	ontact	Lab Contact: Mike DelMonico	elMon	93		COC No:	COC No:
City/State/Zin; Novl. MI 48377	Telephone: 248-994-2240	1-2240			Ē	lephon	e: 248-9	Telephone: 248-994-2240				Telep	hone: 3	Telephone: 330-497-9396	9396				
The first framework to	Email: kristoffer.hinskey@arcadis.com	inskey@arca	dis.com		H	Analy	als Tur	Analysis Turnaround Ilms	Time	L	H				Analyses	/ses		1 of 1 For lab use only	\$300
Fnone: 448-994-2140 Project Name: Ford I TP Off. Site	Sampler Name:	(Ê	TAT if different from below	rent from	helow	Ш						-			Walk-in client	
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Special Instructions/QC Requirements & Comments: Sample Address; Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.	o.com. Cadena #E2	3631	,,,	34360	099		90	lapitel	_										
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Packing material used: Rubble Wrap Foam Plastic Bag None Other
COOLANT: Wet Ice Blue Ice Dry Ice Water None
1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN #C (CFC) Observed Cooler TempC Corrected Cooler Temp
2. 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? 3. Shippers' packing slip attached to the cooler(s)? 4. Did custody papers accompany the sample(s)? 5. Were the custody papers relinquished & signed in the appropriate place? 6. Was/were the person(s) who collected the samples clearly identified on the COC? 7. Did all bottles arrive in good condition (Unbroken)? 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)? 10. Were correct bottle(s) used for the test(s) indicated? 11. Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC? If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC312502
14. Were VOAs on the COC?
15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yet 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? Yes Yo
Contacted PM Date by via Verbal Voice Mail Other Concerning
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
19. SAMPLE CONDITION
Sample(s) were received after the recommended holding time had expired.
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Sample(s) were received after the recommended holding time had expired. Sample(s) were received in a broken container. Sample(s) were received with bubble >6 mm in diameter. (Notify PM) 20. SAMPLE PRESERVATION

Site Name

Opened on_

Client Cooler

Login #:

Eurofins Courier

Box

Storage Location

Other

Cooler unpacked by:

Eurofins - Cleveland Sample Receipt Form/Narrative

Receipt After-hours: Drop-off Date/Time

8-15-23

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off

Foam Box

Barberton Facility

Cooler Received on

Eurofins Cooler#

Client

•			
Login	#		
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		Eurofins - Canto	n Sample Receipt M	ultiple Cooler Form	Y
8	escription	IR Gun #	Observed	Corrected	Coolant
	rcle)	(Circle)	Temp °C	Temp °C	(Circle) Welled Blue Ice Dry Ice
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WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

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eurofins



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164

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EUROFINS CLEVELAND 180,S. VAN BUREN AVE.

BARBERTON OH 44203



2 of 2 MPS# 6189 7343 1616 Metr# 6189 7343 1605 TUE - 15 AUG 10:30A PRIORITY OVERNIGHT



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DATA VERIFICATION REPORT



August 28, 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: 190176-1 Sample date: 2023-08-14

Report received by CADENA: 2023-08-28

Initial Data Verification completed by CADENA: 2023-08-28

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 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 - Cleveland

Laboratory Submittal: 190176-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401901 8/14/20				MW-128S_081423 2401901762 8/14/2023			
				Report Valid			Report			Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-826</u>		75.05.4		4.0	/1			4.0	/1	
	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 # 240-190176-1

CADENA Verification Report: 2023-08-28

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 51157R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-190176-1 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 ID	le ID Lab ID		Sample	Parent Sample	Analysis		
Sample 10	Labib	Matrix Collection Date		Parent Sample	VOC	VOC SIM	
TRIP BLANK_113	240-190176-1	Water	08/14/2023		Х		
MW-128S_081423	240-190176-2	Water	08/14/2023		Х	X	

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		X	
2. Requested analyses and sample results		Х		X	
Master tracking list		Х		Х	
4. Methods of analysis		Χ		X	
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		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 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	Perfo Acce	Not Required	
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation	<u>'</u>				'
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	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Bindu Sree M B

SIGNATURE: BAShims

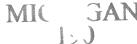
DATE: September 15, 2023

PEER REVIEW: Andrew Korycinski

DATE: September 20, 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 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 TAT if different from below Sampler Name: Walk-in client Project Name: Ford LTP Off-Site FOUTIN 3 weeks 10 day ✓ 2 weeks Lab sampling Project Number: 30167538.402.04 Method of Shipment/Carrier: 1 week 1,4-Dioxane 8260D SIM Composite-C/Grab-G 8260D 2 days /inyl Chloride 8260D PO # 30167538.402.04 cis-1,2-DCE 8260D Shipping/Tracking No: 1 day Job/SDG No: Matrix Containers & Preservatives PCE 8260D rce 8260D H2SO4 Sample Specific Notes / HN03 NaOH Solid **Special Instructions:** Sample Date Sample Time Sample Identification TRIP BLANK_ 113 NG X Х Χ X X X 1 Trip Blank 6 8-14-23 6 MW-1285_081423 1050 6 3 VOAs for 8260D X X 3 VOAs for 8260D SIM Page 601 of 604 Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ✓ Non-Hazard Skin Irritant Flammable Poison B Unknown Return to Client Disposal By Lab Special Instructions/QC Requirements & Comments: Sample Address: 34360 Capital Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested. Relinquished by: Date/Time: FOSTIK 8-14-23 NOVI COLD STORAGE Accadis 8-14-13 Relinquished by: 15:38 Relinquished by: Company: Received in Laboratory by; Date/Time: 1545 1000

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-190176-1 Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_113

Lab Sample ID: 240-190176-1

Date Collected: 08/14/23 00:00 **Matrix: Water** Date Received: 08/15/23 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/23/23 13:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/23/23 13:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/23/23 13:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/23/23 13:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/23/23 13:12	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/23/23 13:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		62 - 137					08/23/23 13:12	1
4-Bromofluorobenzene (Surr)	96		56 ₋ 136					08/23/23 13:12	1
Toluene-d8 (Surr)	109		78 - 122					08/23/23 13:12	1
Dibromofluoromethane (Surr)	110		73 - 120					08/23/23 13:12	1

Client Sample ID: MW-128S_081423 Lab Sample ID: 240-190176-2

Date Collected: 08/14/23 10:50 Date Received: 08/15/23 10:00

Method: SW846 8260D SIN	I - Volatile Orga	anic Comp	ounds (GC/N	/IS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/23/23 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		66 - 120			-		08/23/23 13:30	1

Method: SW846 8260D - Vo	latile Organic	Compound	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			08/24/23 16:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/24/23 16:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/24/23 16:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/24/23 16:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/24/23 16:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/24/23 16:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	70INECOVELY	Qualifiei	Liiiillo	riepaieu	Allalyzeu	Diriac
1,2-Dichloroethane-d4 (Surr)	123		62 - 137		08/24/23 16:32	1
4-Bromofluorobenzene (Surr)	101		56 ₋ 136		08/24/23 16:32	1
Toluene-d8 (Surr)	99		78 - 122		08/24/23 16:32	1
Dibromofluoromethane (Surr)	109		73 - 120		08/24/23 16:32	1

Matrix: Water