

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 8/22/2023 7:44:39 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-189873-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





Eurofins Cleveland

Job Notes

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Authorization

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Qualifiers

G	C/MS VOA		
-		-	 _

GC/MS VOA		
Qualifier	Qualifier Description	
F2	MS/MSD RPD exceeds control limits	
U	Indicates the analyte was analyzed for but not detected.	5
Glossary		6
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	0
CFU	Colony Forming Unit	0
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	9
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"	13
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDI	Method Detection Limit	

Glossary

© %R CFL CFU CNF DER Dil Fac DL	Listed under the "D" column to designate that the result is reported on a dry weight basis Percent Recovery Contains Free Liquid Colony Forming Unit Contains No Free Liquid Duplicate Error Ratio (normalized absolute difference) Dilution Factor
CFL CFU CNF DER Dil Fac DL	Contains Free Liquid Colony Forming Unit Contains No Free Liquid Duplicate Error Ratio (normalized absolute difference) Dilution Factor
CFU CNF DER Dil Fac DL	Colony Forming Unit Contains No Free Liquid Duplicate Error Ratio (normalized absolute difference) Dilution Factor
CNF DER Dil Fac DL	Contains No Free Liquid Duplicate Error Ratio (normalized absolute difference) Dilution Factor
DER Dil Fac DL	Duplicate Error Ratio (normalized absolute difference) Dilution Factor
Dil Fac DL	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

Job ID: 240-189873-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-189873-1

Receipt

The samples were received on 8/10/2023 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 0.2°C and 0.4°C

GC/MS VOA

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

Method Summary

Client: ARCADIS US Inc 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

Sample Summary

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-189873-1	TRIP BLANK_125	Water	08/08/23 00:00	08/10/23 08:00
240-189873-2	MW-102_080823	Water	08/08/23 10:55	08/10/23 08:00
240-189873-3	MW-102S_080823	Water	08/08/23 11:45	08/10/23 08:00
240-189873-4	DUP-09	Water	08/08/23 00:00	08/10/23 08:00

Detection Summary

Job ID: 240-189873-1

Client Sample ID: TRIP BLANK_125	Lab Sample ID: 240-189873-1
No Detections.	
Client Sample ID: MW-102_080823	Lab Sample ID: 240-189873-2

Analyte	Result Qua	alifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Vinyl chloride	3.0		1.0	0.45	ug/L	1	8260D	Total/NA
Client Sample ID: M	W-102S_080823					Lab Sa	ample ID: 2	40-189873-3
No Detections.								
No Detections.	UP-09					Lab Sa	ample ID: 2	40-189873-4
	UP-09 Result Qua	alifier	RL	MDL	Unit		ample ID: 2	40-189873-4 Prep Type

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK_125 Date Collected: 08/08/23 00:00 Date Received: 08/10/23 08:00

Lab Sample ID: 240-189873-1

Matrix: Water

5

8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/14/23 18:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/14/23 18:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/14/23 18:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/14/23 18:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/14/23 18:36	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/14/23 18:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137					08/14/23 18:36	1
4-Bromofluorobenzene (Surr)	86		56 - 136					08/14/23 18:36	1
Toluene-d8 (Surr)	96		78 - 122					08/14/23 18:36	1
Dibromofluoromethane (Surr)	105		73 - 120					08/14/23 18:36	1

Client Sample ID: MW-102_080823 Date Collected: 08/08/23 10:55 Date Received: 08/10/23 08:00

Job ID: 240-189873-1

Lab Sample ID: 240-189873-2 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			08/16/23 13:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			66 - 120			-		08/16/23 13:05	1
Method: SW846 8260D - Vo	olatile Organic	Compoun	ds by GC/MS	J					
Analyte	-	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/14/23 18:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/14/23 18:59	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/14/23 18:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/14/23 18:59	1
Trichloroethene	1.0	U	1.0		ug/L			08/14/23 18:59	1
Vinyl chloride	3.0		1.0		ug/L			08/14/23 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			-		08/14/23 18:59	1
4-Bromofluorobenzene (Surr)	91		56 - 136					08/14/23 18:59	1
Toluene-d8 (Surr)	93		78 - 122					08/14/23 18:59	1
Dibromofluoromethane (Surr)	113		73 - 120					08/14/23 18:59	1

Client Sample ID: MW-102S_080823 Date Collected: 08/08/23 11:45 Date Received: 08/10/23 08:00

Job ID: 240-189873-1

Lab Sample ID: 240-189873-3 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			08/16/23 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		66 - 120			-		08/16/23 13:28	1
Method: SW846 8260D - Vo	olatile Organic	Compoun	ds by GC/MS						
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/14/23 19:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/14/23 19:23	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/14/23 19:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/14/23 19:23	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/14/23 19:23	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/14/23 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			-		08/14/23 19:23	1
4-Bromofluorobenzene (Surr)	90		56 - 136					08/14/23 19:23	1
Toluene-d8 (Surr)	90		78 - 122					08/14/23 19:23	1
Dibromofluoromethane (Surr)	116		73 - 120					08/14/23 19:23	1

Client Sample Results

RL

2.0

RL

1.0

1.0

1.0

1.0

1.0

1.0

Limits

62 - 137

56 - 136

78 - 122

73 - 120

Limits

66 - 120

MDL Unit

0.86 ug/L

MDL Unit

0.49 ug/L

0.46 ug/L

0.44 ug/L

0.51 ug/L

0.44 ug/L

0.45 ug/L

D

D

Prepared

Prepared

Prepared

Prepared

Client Sample ID: DUP-09 Date Collected: 08/08/23 00:00 Date Received: 08/10/23 08:00

1,2-Dichloroethane-d4 (Surr)

Analyte

1,4-Dioxane

Surrogate

Analyte

1,1-Dichloroethene

Tetrachloroethene

Trichloroethene

Vinyl chloride

Toluene-d8 (Surr)

Surrogate

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

%Recovery

Result Qualifier

Result Qualifier

1.0 U

1.0 U

1.0 U

1.0 U

1.0 U

2.8

97

92

93

107

%Recovery

Qualifier

Qualifier

2.0 U

74

Job ID: 240-189873-1

Lab Sample ID: 240-189873-4 **Matrix: Water**

Analyzed

08/16/23 13:52

Analyzed

08/16/23 13:52

Analyzed

08/14/23 19:46

08/14/23 19:46

08/14/23 19:46

08/14/23 19:46

08/14/23 19:46

08/14/23 19:46

Analyzed

08/14/23 19:46

08/14/23 19:46

08/14/23 19:46

08/14/23 19:46

	5
	8
	9

Dil Fac

Dil Fac

Dil Fac

1

1

1

1

1

1

1

1

1

1

1

1

Dil Fac

ξ
9

Surrogate Summary

Matrix: Water

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

Job ID: 240-189873-1

Prep Type: Total/NA

			Pe	ercent Surro	ogate Recovery (Ad	ceptance Limits)
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-189873-1	TRIP BLANK_125	103	86	96	105	
240-189873-2	MW-102_080823	102	91	93	113	
240-189873-3	MW-102S_080823	102	90	90	116	
240-189873-4	DUP-09	97	92	93	107	
240-189875-B-5 MS	Matrix Spike	96	91	95	106	
240-189875-B-5 MSD	Matrix Spike Duplicate	96	90	91	103	
LCS 240-583793/4	Lab Control Sample	93	89	94	104	
MB 240-583793/7	Method Blank	100	91	93	108	
Surrogate Legend						
DCA = 1,2-Dichloroeth	()					
BFB = 4-Bromofluorok						
TOL = Toluene-d8 (Su	,					
DBFM = Dibromofluor	omethane (Surr)					
lethod: 8260D S	IM - Volatile Organic	Compoun	ds (GC/	MS)		
latrix: Water						Prep Type: Total/N
			Pe	ercent Surro	ogate Recovery (Ad	cceptance Limits)
		504			-	•
		DCA				

Lab Sample ID	Client Sample ID	(00-120)
240-189873-2	MW-102_080823	92
240-189873-3	MW-102S_080823	96
240-189873-4	DUP-09	74
240-189878-C-2 MS	Matrix Spike	95
240-189878-C-2 MSD	Matrix Spike Duplicate	86
LCS 240-584028/5	Lab Control Sample	96
MB 240-584028/7	Method Blank	97

Surrogate Legend

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

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

Lab Sample ID: MB 240-583793/7 Matrix: Water

Analysis Batch: 583793

MB							
Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
U	1.0	0.49	ug/L			08/14/23 13:33	1
U	1.0	0.46	ug/L			08/14/23 13:33	1
U	1.0	0.44	ug/L			08/14/23 13:33	1
U	1.0	0.51	ug/L			08/14/23 13:33	1
U	1.0	0.44	ug/L			08/14/23 13:33	1
U	1.0	0.45	ug/L			08/14/23 13:33	1
	 MB Qualifier U 	Qualifier RL U 1.0 U 1.0	Qualifier RL MDL U 1.0 0.49 U 1.0 0.46 U 1.0 0.46 U 1.0 0.46 U 1.0 0.44 U 1.0 0.51 U 1.0 0.44	Qualifier RL MDL Unit U 1.0 0.49 ug/L U 1.0 0.46 ug/L U 1.0 0.44 ug/L U 1.0 0.44 ug/L U 1.0 0.51 ug/L U 1.0 0.44 ug/L	Qualifier RL MDL Unit D U 1.0 0.49 ug/L 0 U 1.0 0.44 ug/L 0 U 1.0 0.44 ug/L 0 U 1.0 0.51 ug/L 0 U 1.0 0.44 ug/L 0	Qualifier RL MDL Unit D Prepared U 1.0 0.49 ug/L 0 <td< td=""><td>Qualifier RL MDL Unit D Prepared Analyzed U 1.0 0.49 ug/L 08/14/23 13:33 08/14/23 13:33 U 1.0 0.46 ug/L 08/14/23 13:33 U 1.0 0.44 ug/L 08/14/23 13:33 U 1.0 0.51 ug/L 08/14/23 13:33 U 1.0 0.51 ug/L 08/14/23 13:33 U 1.0 0.44 ug/L 08/14/23 13:33 U 1.0 0.44 ug/L 08/14/23 13:33</td></td<>	Qualifier RL MDL Unit D Prepared Analyzed U 1.0 0.49 ug/L 08/14/23 13:33 08/14/23 13:33 U 1.0 0.46 ug/L 08/14/23 13:33 U 1.0 0.44 ug/L 08/14/23 13:33 U 1.0 0.51 ug/L 08/14/23 13:33 U 1.0 0.51 ug/L 08/14/23 13:33 U 1.0 0.44 ug/L 08/14/23 13:33 U 1.0 0.44 ug/L 08/14/23 13:33

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137		08/14/23 13:33	1
4-Bromofluorobenzene (Surr)	91		56 - 136		08/14/23 13:33	1
Toluene-d8 (Surr)	93		78 - 122		08/14/23 13:33	1
Dibromofluoromethane (Surr)	108		73 - 120		08/14/23 13:33	1

Lab Sample ID: LCS 240-583793/4 Matrix: Water Analysis Batch: 583793

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	27.1		ug/L		108	63 - 134	
cis-1,2-Dichloroethene	25.0	23.7		ug/L		95	77 - 123	
Tetrachloroethene	25.0	27.7		ug/L		111	76 - 123	
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	75 - 124	
Trichloroethene	25.0	28.2		ug/L		113	70 - 122	
Vinyl chloride	12.5	13.7		ug/L		110	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	89		56 - 136
Toluene-d8 (Surr)	94		78 - 122
Dibromofluoromethane (Surr)	104		73 - 120

Lab Sample ID: 240-189875-B-5 MS Matrix: Water Analysis Batch: 583793

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	10	U	250	242		ug/L		97	56 - 135	
cis-1,2-Dichloroethene	36		250	267		ug/L		92	66 - 128	
Tetrachloroethene	10	U	250	255		ug/L		102	62 - 131	
trans-1,2-Dichloroethene	10	U	250	232		ug/L		93	56 - 136	
Trichloroethene	10	U	250	267		ug/L		107	61 - 124	
Vinyl chloride	240		125	381		ug/L		109	43 - 157	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	96		62 - 137							
4-Bromofluorobenzene (Surr)	91		56 - 136							
Toluene-d8 (Surr)	95		78 - 122							

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Job ID: 240-189873-1

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike

Prep Type: Total/NA

QC Sample Results

5 6 7

10

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

Matrix: Water	75-B-5 MS						U	nent Sa	mple ID: Ma Prep Type		
Analysis Batch: 583793											
	MS										
Surrogate	%Recovery	Qualifier	Limits								
Dibromofluoromethane (Surr)	106		73 - 120								
Lab Sample ID: 240-1898 Matrix: Water	75-B-5 MSD					Client	Samp	ole ID: N	latrix Spike Prep Type		
Analysis Batch: 583793											
-	Sample	Sample	Spike	MSD	MSD				%Rec		RP
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
1,1-Dichloroethene	10	U	250	256		ug/L		103	56 - 135	6	2
cis-1,2-Dichloroethene	36		250	279		ug/L		97	66 - 128	4	1
Tetrachloroethene	10	U	250	258		ug/L		103	62 - 131	1	2
trans-1,2-Dichloroethene	10	U	250	251		ug/L		100	56 - 136	8	1
Trichloroethene	10	U	250	285		ug/L		114	61 - 124	6	1
Vinyl chloride	240		125	373		ug/L		102	43 - 157	2	2
		MOD									
Surrogata	MSD %Recovery		Limits								
Surrogate 1,2-Dichloroethane-d4 (Surr)		Quaimer	<u>62 - 137</u>								
4-Bromofluorobenzene (Surr)	90 90		56 - 136								
()											
Toluene-d8 (Surr) Dibromofluoromethane (Surr)	91 103		78 - 122 73 - 120								
lethod: 8260D SIM - \ Lab Sample ID: MB 240-5		ganic C	ompound	ls (GC/M	S)		Cli	ent Sarr	ple ID: Metl Prep Type		
lethod: 8260D SIM - \ Lab Sample ID: MB 240-5 Matrix: Water			ompound	Is (GC/M	S)		Cli	ent Sarr	•		
lethod: 8260D SIM - \ Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 584028	84028/7	MB MB							Prep Type	: Tot	tal/N
lethod: 8260D SIM - \ Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 584028 Analyte	84028/7	MB MB sult Quali		RL	MDL Unit			ent Sam Prepared	Prep Type Analyzed	: Tot	tal/N Dil Fa
Aethod: 8260D SIM - Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 584028 Analyte 1,4-Dioxane	84028/7	MB MB sult Quali 2.0 U		RL					Prep Type	: Tot	tal/N/ Dil Fa
Method: 8260D SIM - Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 584028 Analyte 1,4-Dioxane	84028/7	MB MB sult Quali 2.0 U MB MB	ifier	RL	MDL Unit				Prep Type Analyzed	: Tot	tal/N/ Dil Fa
Method: 8260D SIM - Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 584028 Analyte 1,4-Dioxane Surrogate	84028/7	MB MB sult Quali 2.0 U MB MB very Quali	ifier	RL	MDL Unit		DF		Prep Type Analyzed 08/16/23 10 Analyzed	: Tot	tal/N/ Dil Fa <i>Dil F</i> a
Method: 8260D SIM - Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 584028 Analyte 1,4-Dioxane Surrogate	84028/7	MB MB sult Quali 2.0 U MB MB	ifier	RL	MDL Unit		DF	Prepared	Analyzed	: Tot	tal/N/ Dil Fa <i>Dil F</i> a
Method: 8260D SIM - \ Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 584028 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr)	84028/7 Re % <i>Reco</i> v	MB MB sult Quali 2.0 U MB MB very Quali	ifier	RL	MDL Unit		DF	Prepared Prepared	Prep Type <u>Analyzed</u> 08/16/23 10 <u>Analyzed</u> 08/16/23 10	: Tot	Dil Fa Dil Fa
Method: 8260D SIM - \ Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 584028 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-	84028/7 Re % <i>Reco</i> v	MB MB sult Quali 2.0 U MB MB very Quali	ifier	RL	MDL Unit		DF	Prepared Prepared	Prep Type <u>Analyzed</u> 08/16/23 10 <u>Analyzed</u> 08/16/23 10 : Lab Control	: Tot 39 - 39 -	Dil Fa Dil Fa Dil Fa
Method: 8260D SIM - Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 584028 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240- Matrix: Water	84028/7 Re % <i>Reco</i> v	MB MB sult Quali 2.0 U MB MB very Quali	ifier	RL	MDL Unit		DF	Prepared Prepared	Prep Type <u>Analyzed</u> 08/16/23 10 <u>Analyzed</u> 08/16/23 10	: Tot 39 - 39 -	Dil Fa Dil Fa Dil Fa
Method: 8260D SIM - Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 584028 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240- Matrix: Water	84028/7 Re % <i>Reco</i> v	MB MB sult Quali 2.0 U MB MB very Quali	ifier ifier 66 -	RL 2.0 <i>its</i> 120	MDL Unit		DF	Prepared Prepared	Prep Type <u>Analyzed</u> 08/16/23 10 <u>Analyzed</u> 08/16/23 10 : Lab Contro Prep Type	: Tot 39 - 39 -	Dil Fa Dil Fa Dil Fa
Method: 8260D SIM - \ Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 584028 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240- Matrix: Water Analysis Batch: 584028	84028/7 Re % <i>Reco</i> v	MB MB sult Quali 2.0 U MB MB very Quali	ifier	RL 2.0 <i>its</i> 120 LCS	MDL 0.86 ug/L	Clie	DF F nt Sa	Prepared Prepared mple ID	Prep Type <u>Analyzed</u> 08/16/23 10 <u>Analyzed</u> 08/16/23 10 Calculation Calculation Calc	: Tot 39 - 39 - 39 -	Dil Fa Dil Fa Dil Fa
Iethod: 8260D SIM - \ Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 584028 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240- Matrix: Water Analysis Batch: 584028	84028/7 Re % <i>Reco</i> v	MB MB sult Quali 2.0 U MB MB very Quali	ifier	RL 2.0 its 120 LCS Result	MDL Unit 0.86 ug/L LCS Qualifier	Clie	DF	Prepared Prepared mple ID	Prep Type <u>Analyzed</u> 08/16/23 10 <u>Analyzed</u> 08/16/23 10 : Lab Contr Prep Type %Rec Limits	: Tot 39 - 39 - 39 -	Dil Fa Dil Fa Dil Fa
Method: 8260D SIM - \ Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 584028 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240- Matrix: Water Analysis Batch: 584028 Analyte	84028/7 	MB MB sult Quali 2.0 U MB MB very Quali 97	ifier	RL 2.0 <i>its</i> 120 LCS	MDL Unit 0.86 ug/L LCS Qualifier	Clie	DF F nt Sa	Prepared Prepared mple ID	Prep Type <u>Analyzed</u> 08/16/23 10 <u>Analyzed</u> 08/16/23 10 Calculation Calculation Calc	: Tot 39 - 39 - 39 -	Dil Fa Dil Fa Dil Fa
Analyte Analysis Batch: 584028 Analysis Batch: 584028 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240- Matrix: Water Analysis Batch: 584028 Analyte 1,4-Dioxane	84028/7 	MB MB sult Quali 2.0 U MB MB very Quali 97 LCS	ifier	RL 2.0 its 120 LCS Result	MDL Unit 0.86 ug/L LCS Qualifier	Clie	DF F nt Sa	Prepared Prepared mple ID	Prep Type <u>Analyzed</u> 08/16/23 10 <u>Analyzed</u> 08/16/23 10 : Lab Contr Prep Type %Rec Limits	: Tot 39 - 39 - 39 -	Dil Fa Dil Fa Dil Fa
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Analyte Analysis Batch: 584028 Analysis Batch: 584028 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240- Matrix: Water Analysis Batch: 584028 Analysis Batch: 584028 Analyte 1,4-Dioxane Surrogate	84028/7 	MB MB sult Quali 2.0 U MB MB very Quali 97 LCS	ifier ifier 66 - Spike Added 10.0	RL 2.0 its 120 LCS Result	MDL Unit 0.86 ug/L LCS Qualifier	Clie	DF F nt Sa	Prepared Prepared mple ID	Prep Type <u>Analyzed</u> 08/16/23 10 <u>Analyzed</u> 08/16/23 10 : Lab Contr Prep Type %Rec Limits	: Tot 39 - 39 - 39 -	Dil Fa Dil Fa
Aethod: 8260D SIM - \ Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 584028 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240- Matrix: Water Analysis Batch: 584028 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr)	84028/7 Re %Recov 584028/5 	MB MB sult Quali 2.0 U MB MB very Quali 97 LCS	ifier ifier 66 - Spike Added 10.0 Limits	RL 2.0 its 120 LCS Result	MDL Unit 0.86 ug/L LCS Qualifier	Clie	DF F D	Prepared Prepared mple ID <u>%Rec</u> 92	Analyzed 08/16/23 10 Analyzed 08/16/23 10 Analyzed 08/16/23 10 Example 08/16/23 10 When the second secon	: Tot	tal/N/ Dil Fa Dil Fa amplo tal/N/
Aethod: 8260D SIM - \ Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 584028 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240- Matrix: Water Analysis Batch: 584028 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-1898	84028/7 Re %Recov 584028/5 	MB MB sult Quali 2.0 U MB MB very Quali 97 LCS	ifier ifier 66 - Spike Added 10.0 Limits	RL 2.0 its 120 LCS Result	MDL Unit 0.86 ug/L LCS Qualifier	Clie	DF F D	Prepared Prepared mple ID <u>%Rec</u> 92	Analyzed 08/16/23 10 Analyzed 08/16/23 10 Analyzed 08/16/23 10 : Lab Contro Prep Type %Rec Limits 80 - 122	: Tot 39 - 39 - 01 Sa : Tot trix :	Dil Fa Dil Fa ampletal/N/
Aethod: 8260D SIM - \ Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 584028 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240- Matrix: Water Analysis Batch: 584028 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-1898 Matrix: Water	84028/7 Re %Recov 584028/5 	MB MB sult Quali 2.0 U MB MB very Quali 97 LCS	ifier ifier 66 - Spike Added 10.0 Limits	RL 2.0 its 120 LCS Result	MDL Unit 0.86 ug/L LCS Qualifier	Clie	DF F D	Prepared Prepared mple ID <u>%Rec</u> 92	Analyzed 08/16/23 10 Analyzed 08/16/23 10 Analyzed 08/16/23 10 Example 08/16/23 10 When the second secon	: Tot 39 - 39 - 01 Sa : Tot trix :	tal/N/ Dil Fa Dil Fa ample tal/N/
Method: 8260D SIM - \ Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 584028 Analyte	84028/7 Re %Recov 584028/5 LCS %Recovery 96 78-C-2 MS	MB MB sult Quali 2.0 U MB MB very Quali 97	ifier	RL 2.0 <i>its</i> 120 LCS Result 9.17	MDL Unit 0.86 ug/L LCS Qualifier	Clie	DF F D	Prepared Prepared mple ID <u>%Rec</u> 92	Prep Type Analyzed 08/16/23 10 Analyzed 08/16/23 10 Analyzed 08/16/23 10 Lab Contr Prep Type %Rec Limits 80 - 122 mple ID: Ma Prep Type	: Tot 39 - 39 - 01 Sa : Tot trix :	tal/N/ Dil Fa Dil Fa ample tal/N/
Aethod: 8260D SIM - \ Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 584028 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240- Matrix: Water Analysis Batch: 584028 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-1898 Matrix: Water	84028/7 Re %Recov 584028/5 LCS %Recovery 96 78-C-2 MS Sample	MB MB sult Quali 2.0 U MB MB very Quali 97	ifier ifier 66 - Spike Added 10.0 Limits	RL 2.0 its 120 LCS Result 9.17	MDL Unit 0.86 ug/L LCS Qualifier	Clie	DF F D	Prepared Prepared mple ID <u>%Rec</u> 92	Analyzed 08/16/23 10 Analyzed 08/16/23 10 Analyzed 08/16/23 10 : Lab Contro Prep Type %Rec Limits 80 - 122	: Tot 39 - 39 - 01 Sa : Tot trix :	Dil Fa Dil Fa ample tal/N/

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

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	95		66 - 120									
Lab Sample ID: 240-1898	78-C-2 MSD					Client	Samn	le ID: N	latrix Spil	ke Dun	licate	-
Matrix: Water						Choine	oump		Prep Ty			
Analysis Batch: 584028												
-	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 F2	10.0	8.71	F2	ug/L		87	51 - 153	21	16	
	MSD	MSD										Ē
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	86		66 - 120									

GC/MS VOA

Analysis Batch: 583793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189873-1	TRIP BLANK_125	Total/NA	Water	8260D	
240-189873-2	MW-102_080823	Total/NA	Water	8260D	
240-189873-3	MW-102S_080823	Total/NA	Water	8260D	
240-189873-4	DUP-09	Total/NA	Water	8260D	
MB 240-583793/7	Method Blank	Total/NA	Water	8260D	
LCS 240-583793/4	Lab Control Sample	Total/NA	Water	8260D	
240-189875-B-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-189875-B-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189873-2	MW-102_080823	Total/NA	Water	8260D SIM	
240-189873-3	MW-102S_080823	Total/NA	Water	8260D SIM	
240-189873-4	DUP-09	Total/NA	Water	8260D SIM	
MB 240-584028/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-584028/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-189878-C-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-189878-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Total/NA

Total/NA

Laboratory References:

Analysis

Analysis

8260D

8260D SIM

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

Job ID: 240-189873-1

12 13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed 08/14/23 19:23	
Date Collecter Date Receiver									Matrix: Wate
		-102S_08082	3				Lab	Sample ID: 2	
Total/NA	Analysis	8260D SIM		1	584028	MRL	EET CLE	08/16/23 13:05	
Total/NA	Analysis	8260D			583793	-	EET CLE	08/14/23 18:59	
Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed	
)ate Collecter Date Receiver	d: 08/08/23 1	0:55						•	Matrix: Wate
- Client Samp		-102_080823					Lab	Sample ID: 2	240-189873-2
Prep Type Total/NA	Type Analysis	_ Method 8260D	Run		Number 583793	Analyst	EET CLE	or Analyzed 08/14/23 18:36	
	Batch	Batch		Dilution	Batch			Prepared	

1

1

EET CLE

EET CLE

583793 LEE

584028 MRL

08/14/23 19:46

08/16/23 13:52

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Job ID: 240-189873-1

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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
lowa	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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Test/	Chai) TestAmerica Laboratory location: Brighton 10448 Cita	Chain of Custody Record 10448 Citation Drive, Suite 2007 Brighton, MI 48116 / 810-229-2763	63	
Client Contact		NPDES RCRA Other		
Company Name: Arcadis	Client Protect Ma sager: Kris Hinekev	Site Contact: Christina Weaver	l sh Contact: Miles DalMonico.	TestAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500	Constant of the second se			100 M
City/State/Zip: Novi, MI, 48377	1 cichindie: 240-774-2240		1 stephone: 300-44/78	1 of 1 COCs
Phone: 248-994-2240	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	For lab use only
Project Name: Ford LTP Off-Site	Sampler Name:	cut fu		Walk-in client
Project Number: 30167538.402.04	Method of Shipnent/Carrier:	(N		Lab sampling
PO#30167538.402.04	Shipping/Tracking No:	day bie (Y / I Crab	E 8560	Job/SDG No:
	Matrix	9260 8560	DD DD	
Sample Identification	Sample Date Sample Lime Lime	ниоз ниоз ниоз ниоз ниоз ниоз нисс нисс нисс нисс нисс ниоз нисс ниоз нисс ниоз нисс ниоз нисс ниоз	cis-1,2-Dioxa Trans-1,2 PCE 8260 Vinyl Chid 7,4-Dioxa	Sample Specific Notes / Special Instructions:
V TRIP BLANK 125				1 Trip Blank
222020 - 201 - MW /	8-8-23 1055 6	6 N N G X X	XXXXXX	3 VOAs for 8260D 3 VOAs for 8260D SIM
- MW - 1025_080823	9 5411 62-3-8	6 N C X Y	XXXXX	~
60 - 90 - 0d	8-8.23 - 6	6 N S X	XXXXXX	Th
20 0				ł
22				
				IT VILLON
				VIICHIUAU
		240-189873 Chain of Custody		1.70
Possible Hazard Identification	ant Poison B Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	are retained longer than 1 month) Archive For Months	
Special Instructions/OC Acquirements & Commonie: Sample Address: KOSCUT KOW Submit all results through Cadena at Jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.	o.com. Cadena #E203631			
Relinquished by: Jore for Jriv	Company: Date/Time:	10800 Received by 1 COLD STA	STARALE Company: Arrad	Date/Time:
Relinquished the Relinquished by Relinquished by	S	Received by	Company	123
HUND	EPTA 89/23	13705 RECEIVENT LABORATORY DY:	company:	Bater Tame: B/10/23 8:00
Scotte insuference lucrationes, hc. All types memory feelbureces & Deepn ¹⁶ are trainmarks of feelbureces Laborator es. hc.	-			

8/22/2023

		T	
Eurofins - Cleveland Sample Rece Barberton Facility	ipt Form/Narrative	Login # :	
Client Arcadis	Site Name	Cooler unpacked by:	
	Opened on 8/10/23	cmH	
Cooler Received on 8/10/23	Clipper Client Drop Off Eurofins	Courier Other	
Receipt After-hours: Drop-off Date/T		age Location	-
Eurofins Cooler #		Other	
Packing material used: Bubble V		Other	
	Blue Ice Dry Ice Water None		
1. Cooler temperature upon receipt		ultiple Cooler Form	
IR GUN # 22 (CF-C		°C Corrected Cooler Temp. °C	
-Were tamper/custody seals intac 3. Shippers' packing slip attached to th 4. Did custody papers accompany the 5. Were the custody papers relinquishe 6. Was/were the person(s) who collect 7. Did all bottles arrive in good condit 8. Could all bottle labels (ID/Date/Tim	the cooler(s) signed & dated? te bottle(s) or bottle kits (LLHg/MeHg)? t and uncompromised? te cooler(s)? sample(s)? ed & signed in the appropriate place? ed the samples clearly identified on the C ion (Unbroken)? te) be reconciled with the COC? cify preservatives (Y(D), # of containers test(s) indicated? orm indicated analyses? Il listed on the COC? thecked at the originating laboratory. correct pH upon receipt? A vials?	Yes No NA Yes No NA Yes No NA Yes No NA Yes No VOAs Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No	12
17. Was a LL Hg or Me Hg trip blank p		Yes No	
Contacted PM Date	by	via Verbal Voice Mail Other	
Concerning			
			_
18. CHAIN OF CUSTODY & SAMP]
Br bubbles un san	10100: MOU-102-080	0823 (4 bottles) - Tome	
	Duo-09 (-	3 bottles 8-10-2	⊁ 3
	\$		
	······································		
19. SAMPLE CONDITION			
Sample(s)			
Sample(s)		vere received in a broken container.	
Sample(s)	were received with bub	ble >6 mm in diameter. (Notify PM)	
20. SAMPLE PRESERVATION			
Sample(s)		were further preserved in the laboratory.	
Sample(s) Preservat	tive(s) added/Lot number(s):		
VOA Sample Preservation - Date/Time V	OAs Frozen:		

Login #: __

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Cooler Description	IR Gun #	Observed	Corrected	Coolant
(Circle)	(Circle)	Temp °C	Temp °C	(Circle)
C Client Box Othe		0.5	0,4	Water None
EC Client Box Other	IR GUN #:	0,3	0,2	Wellice) Blue Ice By Ic
EC Client Box Other	IR GUN #:			Wet ice Sive ice By ic Water None
SC Client Box Other	IR GUN #:			Wet ice Blue ice By ice Water None
EC Client Box Other	IR GUN #:			Welice Dive Ice Dyice Water None
EC Client Box Other	IR GUN #:			Welice Blue ice By ice Water None
EC Client Box Other	IR GUN 4:			Wellice Dive Ice Bylice
EC Client Bax Other	IR GUN #:			Wet ice Blue ice Bry ice
BC Client Ben Other	IR GUN #:			Weise She ice Byle
				Wellice Blue Ico Bylice
BC Client Ben Other				Water Hene Water Stor to Byte
BC Client Ben Other				Weller Henne Weller Blue See Byte
SC Client Box Other				Water Mana Water Mana
BC Client Ben Other	R OM #:			Weller Hane
IC Client Jex Other				· Maler_ Mana
BC Client Bas Other				Weiter_Hann
BC Client Box Other	IR GON #:			Wellice Sheelice Bylice Water Hane
BC Client Bes Olive	IR GUN #:			Wellice She Sco Byte
EC Client Box Other	R CON #:			Welter New Dyle
SC Client Sex Oliver				Welter She lee Byte
BC Client Box Other	11: GUN #:			Wet ice Blue ice Bry ice Water Mane
BC Clent Box Other	IR GUN #:			Wet ice She ice Dy ice Water Note
BC Client Box Other	IR GUN #:			Wet Ice Sive Ice Bry Ice
BC Client Bas Other	IR OWN 0:			Wellie Die Ice Byle
C Client Box Other	IR GUN #:			Wellice Bluelice Drylce
BC Client Box Other	11: GWI #:			Wellice Blee Ice Bry Ice
C Client Sex Other	IL GIN #:			Water None Watice She ice Bryles
EC Client Box Other	IR GUN #:			Weller None Wellice Sive Ice Dryice
EC Client Box Other	IR GUN #:			Welse None Welice Sive Ice Dry Ice
	# GUN #:			Water Name Watto She Lee Bry to
BC Client Ben Other	R GUN #:			Weiter Mane
IC Client Bax Other	IR GUN #:			Weiter Hane Weiter Norte Bryter
IC Clent Box Other				Weller Nene Wellco Blue Ico Dry Ico
IC Client Box Other	IR GUN #:			Water Nese
C Client Box Other	R GWI #:			Wellice Bluelice Brylice Water Near
C Client Box Other	IR GUN #:			Wellce Bluetce Brylcs Water None

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

DATA VERIFICATION REPORT



August 22, 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: 189873-1 Sample date: 2023-08-08 Report received by CADENA: 2023-08-22 Initial Data Verification completed by CADENA: 2023-08-22 Number of Samples:4 Sample Matrices:Water Test Categories:GCMS VOC Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

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

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631 Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory Submittal: 189873-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401898 8/8/202		i		MW-102 2401898 8/8/202		3		MW-10 240189 8/8/202		23		DUP-09 2401898 8/8/202			
				Report		Valid		Report		Valid		Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC																		
<u>OSW-8260</u>	<u>)D</u>																	
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		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		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		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		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		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		3.0	1.0	ug/l		ND	1.0	ug/l		2.8	1.0	ug/l	
<u>OSW-8260</u>	DSIM																	
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		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 # 240-189873-1

CADENA Verification Report: 2023-08-22

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 51123R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-189873-1 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	Lab ID	Matrix	Sample	Parent Sample	Ana	lysis
Sample ID		IVIALITA	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_125	240-189873-1	Water	08/08/2023		Х	
MW-102_080823	240-189873-2	Water	08/08/2023		Х	Х
MW-102S_080823	240-189873-3	Water	08/08/2023		Х	Х
DUP-09	240-189873-4	Water	08/08/2023	MW-102_080823	Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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

DATA REVIEW

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.

DATA REVIEW

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result (µg/L)	Duplicate Result (µg/L)	RPD
MW-102_080823 / DUP-09	Vinyl chloride	3.0	2.8	AC

Note:

AC Acceptable

The results 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 REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GO	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		X	
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

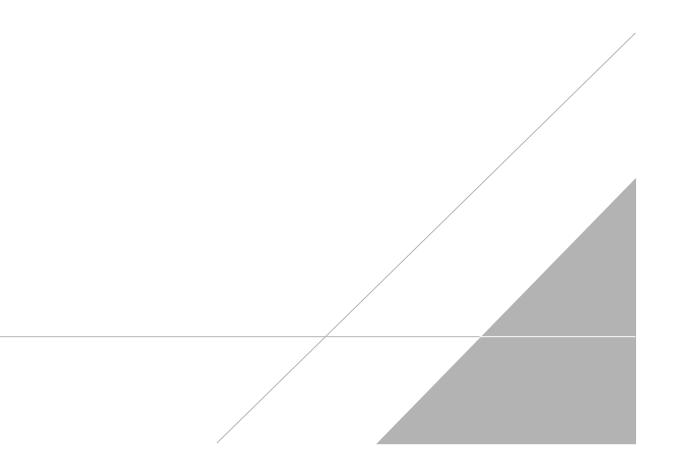
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SIGNATURE:	BASHMB
DATE:	September 12, 2023

PEER REVIEW: Andrew Korycinski

DATE: September 14, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record



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

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Client Sample ID: TRIP BLANK_125

Date Collected: 08/08/23 00:00

Date Received: 08/10/23 08:00

Mothod: SW816 8260D	- Volatile Organic Compounds by GC/MS
WELLIUL. 344040 0200D	- volatile organic compounds by GC/WG

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/14/23 18:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/14/23 18:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/14/23 18:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/14/23 18:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/14/23 18:36	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/14/23 18:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

	,	 	-	 , ,		
1,2-Dichloroethane-d4 (Surr)	103	 62 - 137		08/14/23 18:36	1	
4-Bromofluorobenzene (Surr)	86	56 - 136		08/14/23 18:36	1	
Toluene-d8 (Surr)	96	78 - 122		08/14/23 18:36	1	
Dibromofluoromethane (Surr)	105	73 - 120		08/14/23 18:36	1	

Client Sample ID: MW-102_080823 Date Collected: 08/08/23 10:55 Date Received: 08/10/23 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			08/16/23 13:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		66 - 120					08/16/23 13:05	1
_ Method: SW846 8260D - Ve	olatile Organic	Compound	ds by GC/MS						
Method: SW846 8260D - Vo			-		Unit	п	Bronarod	Analyzad	Dil Eac
Analyte	Result	Qualifier	RL	MDL		<u> </u>	Prepared	Analyzed	Dil Fac
Analyte 1,1-Dichloroethene		Qualifier	-	MDL 0.49	Unit ug/L ug/L	D	Prepared	Analyzed 08/14/23 18:59 08/14/23 18:59	Dil Fac 1
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U U	RL 1.0	MDL 0.49 0.46	ug/L	<u> </u>	Prepared	08/14/23 18:59	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0 1.0	Qualifier U U U	RL 1.0 1.0	MDL 0.49 0.46 0.44	ug/L ug/L	<u> </u>	Prepared	08/14/23 18:59 08/14/23 18:59	Dil Fac 1 1 1 1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102	62 - 137		08/14/23 18:59	1
4-Bromofluorobenzene (Surr)	91	56 - 136		08/14/23 18:59	1
Toluene-d8 (Surr)	93	78 - 122		08/14/23 18:59	1
Dibromofluoromethane (Surr)	113	73 - 120		08/14/23 18:59	1

1.0

3.0

0.45 ug/L

Client Sample ID: MW-102S_080823 Date Collected: 08/08/23 11:45 Date Received: 08/10/23 08:00

Vinyl chloride

Method: SW846 8260D SIM - V	Volatile Orga	anic Comp	ounds (GC/M	IS)				
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86 ug/L			08/16/23 13:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		66 - 120		-		08/16/23 13:28	1

Eurofins Cleveland

Matrix: Water

Lab Sample ID: 240-189873-1 Matrix: Water

Lab Sample ID: 240-189873-2

08/14/23 18:59

Lab Sample ID: 240-189873-3

Matrix: Water

1

Client Sample ID: MW-102S_080823 Date Collected: 08/08/23 11:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

116

2.8

Date Received: 08/10/23 08:00

Matrix: Water

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			08/14/23 19:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/14/23 19:23	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/14/23 19:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/14/23 19:23	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/14/23 19:23	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/14/23 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137					08/14/23 19:23	1
4-Bromofluorobenzene (Surr)	90		56 - 136					08/14/23 19:23	1
Toluene-d8 (Surr)	90		78 - 122					08/14/23 19:23	1

73 - 120

Client Sample ID: DUP-09

Dibromofluoromethane (Surr)

Vinyl chloride

Date Collected: 08/08/23 00:00 Date Received: 08/10/23 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			08/16/23 13:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		66 - 120			-		08/16/23 13:52	1
_ 	olatile Organic	Compound	ds by GC/MS						
Method: SW846 8260D - Vo			-	MDI	Unit		Bronorod	Apolyzod	
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier	RL 1.0	0.49	ug/L	D	Prepared	08/14/23 19:46	Dil Fac
Analyte	Result	Qualifier	RL	0.49		<u> </u>	Prepared		Dil Fac
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U U	RL 1.0	0.49 0.46	ug/L	<u> </u>	Prepared	08/14/23 19:46	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0 1.0	Qualifier U U U	RL 1.0 1.0	0.49 0.46 0.44	ug/L ug/L	<u> </u>	Prepared	08/14/23 19:46 08/14/23 19:46	Dil Fac 1 1 1

Surrogate	%Recovery Qualifie	er Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97	62 - 137		08/14/23 19:46	1
4-Bromofluorobenzene (Surr)	92	56 - 136		08/14/23 19:46	1
Toluene-d8 (Surr)	93	78 - 122		08/14/23 19:46	1
Dibromofluoromethane (Surr)	107	73 - 120		08/14/23 19:46	1

1.0

0.45 ug/L

08/14/23 19:23 1 Lab Sample ID: 240-189873-4

08/14/23 19:46

1