

**Environment Testing** 

### **ANALYTICAL REPORT**

### PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 3/5/2025 7:08:29 AM

### JOB DESCRIPTION

Ford LTP

### **JOB NUMBER**

240-219436-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





### **Eurofins Cleveland**

### Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

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Client: Arcadis US Inc. Project/Site: Ford LTP

Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	5
Glossary		5
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
ф.	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	8
CNF	Contains No Free Liquid	0
DER	Duplicate Error Ratio (normalized absolute difference)	0
Dil Fac	Dilution Factor	9
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)	13
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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### Job Narrative 240-219436-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
  situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
  specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 2/26/2025 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 2.7°C and 5.0°C.

### GC/MS VOA

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

### Client: Arcadis US Inc. Project/Site: Ford LTP

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

Client: Arcadis US Inc. Project/Site: Ford LTP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219436-1	TRIP BLANK_61	Water	02/21/25 00:00	02/26/25 08:00
240-219436-2	MW-207S_022125	Water	02/21/25 10:35	02/26/25 08:00

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### **Detection Summary**

Job ID: 240-219436-1
----------------------

Lab Sample ID: 240-219436-1

Lab Sample ID: 240-219436-2

No Detections.

Client: Arcadis US Inc. Project/Site: Ford LTP

### Client Sample ID: MW-207S\_022125

Client Sample ID: TRIP BLANK\_61

No Detections.

Client: Arcadis US Inc. Project/Site: Ford LTP

### Client Sample ID: TRIP BLANK\_61

Date Collected: 02/21/25 00:00 Date Received: 02/26/25 08:00

Method: SW846 8260D - Volati	le Organic Comp	ounds by G	iC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/03/25 16:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/25 16:51	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 16:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/25 16:51	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 16:51	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/25 16:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		03/03/25 16:51	1
4-Bromofluorobenzene (Surr)	99		56 - 136					03/03/25 16:51	1
Toluene-d8 (Surr)	108		78 - 122					03/03/25 16:51	1
Dibromofluoromethane (Surr)	104		73 - 120					03/03/25 16:51	1

Job ID: 240-219436-1

Matrix: Water

Lab Sample ID: 240-219436-1

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### Client Sample ID: MW-207S\_022125

Date Collected: 02/21/25 10:35 Date Received: 02/26/25 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			02/27/25 15:56	1	ï
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	108		68 - 127			-		02/27/25 15:56	1	
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS							ŝ
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/03/25 17:16	1	7
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/25 17:16	1	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 17:16	1	
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/25 17:16	1	
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 17:16	1	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/25 17:16	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		03/03/25 17:16	1	
4-Bromofluorobenzene (Surr)	98		56 _ 136					03/03/25 17:16	1	
Toluene-d8 (Surr)	108		78 - 122					03/03/25 17:16	1	
Dibromofluoromethane (Surr)	104		73 - 120					03/03/25 17:16	1	1

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Job ID: 240-219436-1

### Lab Sample ID: 240-219436-2 Matrix: Water

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

### Percent Surrogate Recovery (Acceptance Limits) DCA BFB TOL DBFM **Client Sample ID** (62-137) (56-136) (78-122) (73-120) Lab Sample ID TRIP BLANK\_61 240-219436-1 110 104 99 108 MW-207S\_022125 240-219436-2 110 98 108 104 240-219469-B-7 MS Matrix Spike 107 95 104 103 240-219469-B-7 MSD Matrix Spike Duplicate 107 95 104 104 LCS 240-646567/6 Lab Control Sample 100 94 102 102 MB 240-646567/10 Method Blank 104 91 100 99 Surrogate Legend DCA = 1,2-Dichloroethane-d4 (Surr) BFB = 4-Bromofluorobenzene (Surr) TOL = Toluene-d8 (Surr) DBFM = Dibromofluoromethane (Surr)

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

### Matrix: Water

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-219435-A-3 MS	Matrix Spike	99	
240-219435-A-3 MSD	Matrix Spike Duplicate	102	
240-219436-2	MW-207S_022125	108	
LCS 240-646307/4	Lab Control Sample	106	
MB 240-646307/5	Method Blank	100	

### Surrogate Legend

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

Job ID: 240-219436-1

### Prep Type: Total/NA

Prep Type: Total/NA

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

### Lab Sample ID: MB 240-646567/10

### Matrix: Water Analysis Batch: 646567

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/03/25 11:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/25 11:47	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 11:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/25 11:47	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 11:47	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/25 11:47	1

	МВ	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137		03/03/25 11:47	1
4-Bromofluorobenzene (Surr)	91		56 _ 136		03/03/25 11:47	1
Toluene-d8 (Surr)	100		78 - 122		03/03/25 11:47	1
Dibromofluoromethane (Surr)	99		73 - 120		03/03/25 11:47	1

### Lab Sample ID: LCS 240-646567/6 Matrix: Water Analysis Batch: 646567

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	17.2		ug/L		86	63 - 134	
cis-1,2-Dichloroethene	20.0	17.5		ug/L		88	77 - 123	
Tetrachloroethene	20.0	17.1		ug/L		86	76 - 123	
trans-1,2-Dichloroethene	20.0	16.7		ug/L		84	75 - 124	
Trichloroethene	20.0	17.5		ug/L		88	70 - 122	
Vinyl chloride	20.0	16.2		ug/L		81	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	94		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

### Lab Sample ID: 240-219469-B-7 MS Matrix: Water Analysis Batch: 646567

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	67	U	1330	1240		ug/L		93	56 - 135
cis-1,2-Dichloroethene	67	U	1330	1210		ug/L		91	66 - 128
Tetrachloroethene	120		1330	1280		ug/L		87	62 - 131
trans-1,2-Dichloroethene	67	U	1330	1170		ug/L		88	56 - 136
Trichloroethene	2100		1330	3230		ug/L		86	61 - 124
Vinyl chloride	67	U	1330	1160		ug/L		87	43 - 157
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	107		62 - 137						

Surrogate	%Recovery Qualifier	- Limits
1,2-Dichloroethane-d4 (Surr)	107	62 - 137
4-Bromofluorobenzene (Surr)	95	56 - 136
Toluene-d8 (Surr)	104	78 - 122

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

Client Sample ID: Lab Control Sample

**Client Sample ID: Matrix Spike** 

Prep Type: Total/NA

Prep Type: Total/NA

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

Matrix: Water	-B-7 MS								C	Client	Sample ID: Prep Ty		
Analysis Batch: 646567													
	MS	MS											
Surrogate	%Recovery	Quali	fier	Limits									
Dibromofluoromethane (Surr)	103			73 - 120									
Lab Sample ID: 240-219469	-B-7 MSD							Client	Sam	nle ID	): Matrix Spi	iko Dur	olicat
Matrix: Water								onem	Jam	pie in	Prep Ty		
Analysis Batch: 646567													
	Sample	Samp	le	Spike	MSD	MSD					%Rec		RF
Analyte	Result	Quali	fier	Added	Result	Qualifier	Unit	I	o %	Rec	Limits	RPD	Lin
1,1-Dichloroethene	67	U		1330	1270		ug/L			95	56 - 135	2	2
cis-1,2-Dichloroethene	67	U		1330	1310		ug/L			98	66 - 128	8	1
Tetrachloroethene	120			1330	1340		ug/L			91	62 - 131	5	2
trans-1,2-Dichloroethene	67	U		1330	1290		ug/L			97	56 - 136	10	1
Trichloroethene	2100			1330	3220		ug/L			86	61 - 124	0	1
Vinyl chloride	67	U		1330	1260		ug/L			94	43 - 157	8	2
	MSD	Men											
Surrogate		Quali	fier	Limits									
1,2-Dichloroethane-d4 (Surr)		Quui		62 - 137									
4-Bromofluorobenzene (Surr)	95			56 - 136									
Toluene-d8 (Surr)	93 104			78 - 122									
	104			73 - 122									
lethod: 8260D SIM - Vol Lab Sample ID: MB 240-646		Со	npoun	ds (GC/MS	<b>)</b>				CI	ient S	ample ID: M		
lethod: 8260D SIM - Vol Lab Sample ID: MB 240-646 Matrix: Water		Со	npoun	ds (GC/MS	i)				CI	ient S	ample ID: M Prep Ty		
Dibromofluoromethane (Surr) Method: 8260D SIM - Vol Lab Sample ID: MB 240-646 Matrix: Water Analysis Batch: 646307	307/5	МВ	мв		-						Prep Ty	уре: То	tal/N/
lethod: 8260D SIM - Vol Lab Sample ID: MB 240-646 Matrix: Water Analysis Batch: 646307 Analyte	307/5	MB	MB Qualifier	R	<u>.</u>	MDL Unit		D	CI Prep		Prep Ty Analyze	ype: To	tal/N/ Dil Fa
Aethod: 8260D SIM - Vol Lab Sample ID: MB 240-646 Matrix: Water	307/5	МВ	MB Qualifier		<u>.</u>	MDL Unit		_ <u>D</u>			Prep Ty	ype: To	tal/N/ Dil Fa
Aethod: 8260D SIM - Vol Lab Sample ID: MB 240-646 Matrix: Water Analysis Batch: 646307 Analyte	307/5	MB	MB Qualifier	R	<u>.</u>			_ <u>D</u>			Prep Ty Analyze	ype: To	tal/N/ Dil Fa
Analyte 1,4-Dioxane	307/5	MB esult 2.0 MB	MB Qualifier	R	<u>.</u>			<u> </u>		ared	Prep Ty Analyze	ype: To ed 3:12	Dil Fa
Aethod: 8260D SIM - Vol Lab Sample ID: MB 240-646 Matrix: Water Analysis Batch: 646307 Analyte	307/5 Re	MB esult 2.0 MB	MB Qualifier U	R	<u>et</u>			_ D	Prep	ared	<b>Analyze</b> 02/27/25 1	ype: To ed 3:12 -	
Aethod: 8260D SIM - Vol         Lab Sample ID: MB 240-646         Matrix: Water         Analysis Batch: 646307         Analyte         1,4-Dioxane         Surrogate         1,2-Dichloroethane-d4 (Surr)	307/5 	MB esult 2.0 MB very	MB Qualifier U	R 2. Limits	<u>et</u>				Prep Prep	ared ared	Analyze           02/27/25 1           Analyze           02/27/25 1	ype: To ad 3:12 - ad 3:12 -	Dil Fa
Aethod: 8260D SIM - Vol         Lab Sample ID: MB 240-646         Matrix: Water         Analysis Batch: 646307         Analyte         1,4-Dioxane         Surrogate         1,2-Dichloroethane-d4 (Surr)         Lab Sample ID: LCS 240-644	307/5 	MB esult 2.0 MB very	MB Qualifier U	R 2. Limits	<u>et</u>				Prep Prep	ared ared	Analyze           02/27/25 1           Analyze           02/27/25 1           02/27/25 1           02/27/25 1           02/27/25 1	ype: To ed 3:12 - 3:12 - 3:12 - ntrol S	Dil Fa Dil Fa
Aethod: 8260D SIM - Vol Lab Sample ID: MB 240-646 Matrix: Water Analysis Batch: 646307 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-64 Matrix: Water	307/5 	MB esult 2.0 MB very	MB Qualifier U	R 2. Limits	<u>et</u>				Prep Prep	ared ared	Analyze           02/27/25 1           Analyze           02/27/25 1	ype: To ed 3:12 - 3:12 - 3:12 - ntrol S	Dil Fa Dil Fa
Aethod: 8260D SIM - Vol Lab Sample ID: MB 240-646 Matrix: Water Analysis Batch: 646307 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-64 Matrix: Water	307/5 	MB esult 2.0 MB very	MB Qualifier U	R  	<u></u>	0.86 ug/L			Prep Prep	ared ared	Analyze           02/27/25 1           Analyze           02/27/25 1           02/27/25 1           EID: Lab Co           Prep Ty	ype: To ed 3:12 - 3:12 - 3:12 - ntrol S	Dil Fa Dil Fa
Aethod: 8260D SIM - Vol Lab Sample ID: MB 240-646 Matrix: Water Analysis Batch: 646307 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-64 Matrix: Water Analysis Batch: 646307	307/5 	MB esult 2.0 MB very	MB Qualifier U	R 	LCS	0.86 ug/L		Clie	Prep Prep	ared ared ample	Analyze           02/27/25 1           Analyze           02/27/25 1           02/27/25 1           ElD: Lab Co           Prep Ty           %Rec	ype: To ed 3:12 - 3:12 - 3:12 - ntrol S	Dil Fa Dil Fa
Aethod: 8260D SIM - Vol Lab Sample ID: MB 240-646 Matrix: Water Analysis Batch: 646307 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-64 Matrix: Water Analysis Batch: 646307 Analyte	307/5 	MB esult 2.0 MB very	MB Qualifier U	R 2. 68 - 127 Spike Added	LCS Result	0.86 ug/L	Unit	Clie	Prep Prep	ared ared ample	Analyze 02/27/25 1 Analyze 02/27/25 1 D: Lab Co Prep Ty %Rec Limits	ype: To ed 3:12 - 3:12 - 3:12 - ntrol S	Dil Fa Dil Fa
Aethod: 8260D SIM - Vol Lab Sample ID: MB 240-646 Matrix: Water Analysis Batch: 646307 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-64 Matrix: Water Analysis Batch: 646307	307/5 	MB esult 2.0 MB very	MB Qualifier U	R 	LCS	0.86 ug/L		Clie	Prep Prep	ared ared ample	Analyze           02/27/25 1           Analyze           02/27/25 1           02/27/25 1           ElD: Lab Co           Prep Ty           %Rec	ype: To ed 3:12 - 3:12 - 3:12 - ntrol S	Dil Fa Dil Fa
Method: 8260D SIM - Vol         Lab Sample ID: MB 240-646         Matrix: Water         Analysis Batch: 646307         Analyte         1,4-Dioxane         Surrogate         1,2-Dichloroethane-d4 (Surr)         Lab Sample ID: LCS 240-644         Matrix: Water         Analysis Batch: 646307	307/5 	MB ssult 2.0 MB very 100	MB Qualifier U	R 2. 68 - 127 Spike Added	LCS Result	0.86 ug/L	Unit	Clie	Prep Prep	ared ared ample	Analyze 02/27/25 1 Analyze 02/27/25 1 D: Lab Co Prep Ty %Rec Limits	ype: To ed 3:12 - 3:12 - 3:12 - ntrol S	Dil Fa Dil Fa
lethod: 8260D SIM - Vol Lab Sample ID: MB 240-646 Matrix: Water Analysis Batch: 646307 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-64 Matrix: Water Analysis Batch: 646307 Analyte 1,4-Dioxane	307/5 	MB sult 2.0 MB very 100	MB Qualifier U MB Qualifier	R 2. 68 - 127 Spike Added	LCS Result	0.86 ug/L	Unit	Clie	Prep Prep	ared ared ample	Analyze 02/27/25 1 Analyze 02/27/25 1 D: Lab Co Prep Ty %Rec Limits	ype: To ed 3:12 - 3:12 - 3:12 - ntrol S	Dil Fa Dil Fa
Iethod: 8260D SIM - Vol Lab Sample ID: MB 240-646 Matrix: Water Analysis Batch: 646307 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-64 Matrix: Water Analysis Batch: 646307 Analyte 1,4-Dioxane <i>Surrogate</i>	307/5 	MB sult 2.0 MB very 100	MB Qualifier U MB Qualifier	R 2. <u>Limits</u> 68 - 127 Spike 	LCS Result	0.86 ug/L	Unit	Clie	Prep Prep	ared ared ample	Analyze 02/27/25 1 Analyze 02/27/25 1 D: Lab Co Prep Ty %Rec Limits	ype: To ed 3:12 - 3:12 - 3:12 - ntrol S	Dil Fa Dil Fa
Aethod: 8260D SIM - Vol         Lab Sample ID: MB 240-646         Matrix: Water         Analysis Batch: 646307         Analyte         1,4-Dioxane         Surrogate         1,2-Dichloroethane-d4 (Surr)         Lab Sample ID: LCS 240-644         Matrix: Water         Analysis Batch: 646307         Matrix: Water         Analysis Batch: 646307         Matrix: Water         Analysis Batch: 646307         Surrogate         1,4-Dioxane         Surrogate         1,2-Dichloroethane-d4 (Surr)	307/5 	MB sult 2.0 MB very 100	MB Qualifier U MB Qualifier	R 2. 	LCS Result	0.86 ug/L	Unit	Clie	Prep Prep nt Sa	ared ared ample	Analyze           02/27/25 1           Analyze           02/27/25 1           02/27/25 1           ID: Lab Co           Prep Ty           %Rec           Limits           75 - 121	ype: To ed 3:12	tal/N/ Dil Fa Dil Fa ample tal/N/
Aethod: 8260D SIM - Vol         Lab Sample ID: MB 240-646         Matrix: Water         Analysis Batch: 646307         Analyte         1,4-Dioxane         Surrogate         1,2-Dichloroethane-d4 (Surr)         Lab Sample ID: LCS 240-64         Matrix: Water         Analyte         1,4-Dioxane         Surrogate         1,2-Dichloroethane-d4 (Surr)         Lab Sample ID: LCS 240-64         Matrix: Water         Analyte         1,4-Dioxane         Surrogate         1,2-Dichloroethane-d4 (Surr)         Lab Sample ID: 240-219435	307/5 	MB sult 2.0 MB very 100	MB Qualifier U MB Qualifier	R 2. 	LCS Result	0.86 ug/L	Unit	Clie	Prep Prep nt Sa	ared ared ample	Analyze           02/27/25 1           Analyze           02/27/25 1           02/27/25 1           ID: Lab Co           Prep Ty           %Rec           Limits           75 - 121           Sample ID:	ype: To ad 3:12	tal/N/ Dil Fa Dil Fa ample tal/N/
Aethod: 8260D SIM - Vol Lab Sample ID: MB 240-646 Matrix: Water Analysis Batch: 646307 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-64 Matrix: Water Analysis Batch: 646307 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-219435 Matrix: Water	307/5 	MB sult 2.0 MB very 100	MB Qualifier U MB Qualifier	R 2. 	LCS Result	0.86 ug/L	Unit	Clie	Prep Prep nt Sa	ared ared ample	Analyze           02/27/25 1           Analyze           02/27/25 1           02/27/25 1           ID: Lab Co           Prep Ty           %Rec           Limits           75 - 121	ype: To ad 3:12	tal/N/ Dil Fa Dil Fa ample tal/N/
Aethod: 8260D SIM - Vol Lab Sample ID: MB 240-646 Matrix: Water Analysis Batch: 646307 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-64 Matrix: Water Analysis Batch: 646307 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-219435	307/5 	MB esult 2.0 MB very 100 LCS Quali	MB Qualifier U MB Qualifier	R 2. Limits 68 - 127 Spike Added 10.0 Limits 68 - 127	LCS Result 9.80	0.86 ug/L LCS Qualifier	Unit	Clie	Prep Prep nt Sa	ared ared ample	Analyze 02/27/25 1 Analyze 02/27/25 1 Analyze 02/27/25 1 D: Lab Co Prep Ty %Rec Limits 75 - 121 Sample ID: Prep Ty	ype: To ad 3:12	tal/N/ Dil Fa Dil Fa ample tal/N/
Aethod: 8260D SIM - Vol Lab Sample ID: MB 240-646 Matrix: Water Analysis Batch: 646307 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-64 Matrix: Water Analysis Batch: 646307 Analyte 1,4-Dioxane <i>Surrogate</i> 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-219435 Matrix: Water	307/5 	MB esult 2.0 MB very 100 LCS Quali	MB Qualifier U MB Qualifier	R 2. 	LCS Result 9.80	0.86 ug/L	Unit	Clie	Prep Prep nt Sa	ared ared ample	Analyze           02/27/25 1           Analyze           02/27/25 1           02/27/25 1           ID: Lab Co           Prep Ty           %Rec           Limits           75 - 121           Sample ID:	ype: To ad 3:12	tal/N/ Dil Fa Dil Fa ample tal/N/

Job ID: 240-219436-1

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

	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	99		68 - 127								
Lab Sample ID: 240-219435-	A-3 MSD					C	Client Sa	ample IC	): Matrix Sp	oike Dup	olicate
Matrix: Water									Prep T	ype: To	tal/NA
Analysis Batch: 646307											
	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	9.98		ug/L		100	20 - 180	0	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	102		68 - 127								

### GC/MS VOA

240-219469-B-7 MS

240-219469-B-7 MSD

Matrix Spike

Matrix Spike Duplicate

Analysis	Batch:	646307
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219436-2	MW-207S_022125	Total/NA	Water	8260D SIM	
MB 240-646307/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-646307/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-219435-A-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
		Total/NA	Water	8260D SIM	
	Matrix Spike Duplicate 7	Totai/NA	Walci	8200D SIW	
240-219435-A-3 MSD malysis Batch: 64656 Lab Sample ID		Prep Type	Matrix	Method	Prep Batc
nalysis Batch: 64656	7				Prep Batcl
nalysis Batch: 64656 Lab Sample ID 240-219436-1	7 Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
nalysis Batch: 64656 Lab Sample ID	7 Client Sample ID TRIP BLANK_61	Prep Type Total/NA	Matrix Water	Method 8260D	Prep Batcl

Total/NA

Total/NA

Water

Water

8260D

8260D

12 13

### Client Sample ID: TRIP BLANK\_61 Lab Sample ID: 240-219436-1 Date Collected: 02/21/25 00:00 Matrix: Water Date Received: 02/26/25 08:00 Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed Total/NA 8260D 646567 НМВ EET CLE 03/03/25 16:51 Analysis 1 Lab Sample ID: 240-219436-2 Client Sample ID: MW-207S\_022125 Date Collected: 02/21/25 10:35 Matrix: Water Date Received: 02/26/25 08:00 Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed Total/NA 8260D 646567 HMB EET CLE 03/03/25 17:16 Analysis 1

1

646307

MDH

EET CLE

02/27/25 15:56

1	n
Laboratory	References:

Analysis

Total/NA

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

8260D SIM

### Accreditation/Certification Summary

Client: Arcadis US Inc. Project/Site: Ford LTP

### Laboratory: Eurofins Cleveland

	eveland			
accreditations/certifications held by	y this laboratory are listed. Not all accreditations/cer	rtifications are applicable to this report	<u></u>	
Authority	Program	Identification Number	Expiration Date	
Connecticut	State	PH-0806	12-31-26	
Georgia	State	4062	02-27-26	
Illinois	NELAP	200004	08-31-25	
lowa	State	421	06-01-25	
Kansas	NELAP	E-10336	01-31-26	
Kentucky (WW)	State	KY98016	12-31-25	
Minnesota	NELAP	039-999-348	12-31-25	
New Hampshire	NELAP	225024	09-30-25	
New Jersey	NELAP	OH001	07-03-25	
New York	NELAP	10975	04-01-25	
Ohio	State	8303	11-04-25	
Ohio VAP	State	ORELAP 4062	02-28-26	
Oregon	NELAP	4062	02-27-26	
Pennsylvania	NELAP	68-00340	08-31-25	
Texas	NELAP	T104704517-22-19	08-31-25	
USDA	US Federal Programs	P330-18-00281	01-05-27	
Virginia	NELAP	460175	09-14-25	
West Virginia DEP	State	210	12-31-25	
Wisconsin	State	399167560	08-31-25	



### Chain of Custody Record



TestAmerica Laboratory location: Farmington Hills --- 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

Client Contact	Regula	tory program:			C I	<b>w</b>	r N	PDES		ſ	RCRA		01	ther								
ompany Name: Arcadis	Client Project	Manager: Mega	an Me	ckle	v		Site C	ontact	: San	anth	Szpai	chler			Lab	Conta	t: Mik	c Dell	Monico		_	 TestAmerica Laboratories, COC No:
ddress: 28550 Cabot Drive, Suite 500	Telephone: 248							none: 2	_								330-49					
ity/State/Zip: Novi, MI, 48377											nd Time		_			pitone.	000-47		nalys		_	 1 of 1 COCs For lab use only
none: 248-994-2240	Email: kristof	fer.hinskey@ar	cadis.	com							PG 1 400	-				Γ			laiys			
roject Name: Ford LTP	Sampler Name		yur	5				different	1.	3 we		-										Walk-in client
roject Number: 30206169.0401.03		oment/Carrier:	-pu	5		-	10	day	5	2 we 1 we	ek		- 4	,						Σ		Lab sampling
O # US3460021848	Shipping/Trac	king No:					-			2 day 1 day					DOS	82601			260D	80D S		Job/SDG No:
					Matr	ix	(	Contain	ers &	Prese	vatives			3260D	E 82	DCE	0	0	ride 8	ne 82		
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment	Solid Other:	112504	HCI	NaOH	ZnAcl N=OH	Unpres Other:		Filtered Sample (Y / N)	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM		Sample Specific Notes / Special Instructions:
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ubmit all results through Cadena at jtomalia@cadenaco evel IV Reporting requested.	com. Cadena #	E203728	10																			
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20. SAMPLE FRESERVATION Sample(s)	Dateby
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Page 19 of 25

WI-NC-099-123124 Cooler Receipt Form.doc

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H1-NC-099 Cooler Receipt Form Poge 2 - Multiple Coolers

# 14

### Temperature readings

2/26/2025

MW-2078_022125	MW-2078_022125	MW-2078_022125	MW-207S_022125	MW-2078_022125	MW-2078_022125	TRIP BLANK_61	Client Sample ID
240-219436-F-2	240-219436-E-2	240-219436-D-2	240-219436-C-2	240-219436-B-2	240-219436-A-2	240-219436-A-1	Lab ID
Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochlorıc Acid	Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Container Type
		"Announcements below" " "					<u>Container</u> Preservation Preservation pH Temp Added Lot Number





### Chain of Custody Record

### TestAmerica Laboratory location: Farmington Hills --- 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

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	Client Project	Manager: Meg	an Me	ckley		s	ite Cor	ntact:	Sama	ntha S	zpaichle	r		Lab	Conta	ct: Mi	ke Del	Monic	0		COC No:	
ddress: 28550 Cabot Drive, Suite 500	Telephone: 248	3-994-2240					relepho	ne: 24	18-994	4-2240				Tele	phone	: 330-4	97-93	96				-
ity/State/Zip: Novi, MI, 48377										round	Time		-	_			-	nalys	ex.		1 of For lab use of	
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Samala Mandifandian	Sample Date	Sample Time	Air	Aqueous Sediment	Solid Other:		H2SO4 HNO3	HC	HOBN	a.011 Inpres	Other:	Filtered Sample (Y / N)	1.1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM			e Specific Notes / al Instructions:
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WI-NC-099
9 Cooler Rec
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Page 2 – k
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| Wet Ice Blue Ice Dry Ice<br>Water None<br>See Temperature Excursion Form | flue                          | Blue Ice<br>r None           | Wet ice Blue ice Dry ice<br>Woter None | Wet ice Blue ice Dry ice<br>Water None | Blue                         | Wei Ice Blue Ice Dry Ice<br>Water None | Wet Ice Blue Ice Dry Ice<br>Water None | Wet fce Blue Ice Dry Ice<br>Water None | Wet Ice Blue Ice Dry Ice<br>Water None | Wet Ice Blue Ice Dry Ice<br>Water None | Wei Ice Blue Ice Dry Ice<br>Water None | Wei Ice Bive Ice Dry Ice<br>Water None | Bive<br>2f                    | Wet Ice Blue Ice Dry Ice<br>Water None | Blue Ice<br>er None           | Wet ice Blue ice Dry ice<br>Water None | Wet ice Biue ice Dry ice<br>Water None | Wet Ice Blue ice Dry ice<br>Water None | Weilce Blueice Dry Ice<br>Water None | Wet ice Blue ice Dry ice<br>Water None | Wet ice Blue ice Dry ice<br>Water None | Wet Ice Blue Ice Dry Ice<br>Water None | Wellice Blueice Drylice<br>Water None | Wet Ice<br>Wa                 | 7 (Weilch Wo                  | 0 2 0 |                               | Login *                   |

5



# 8 9 10 11 12 13 14 Login Container Summary Report

## Temperature readings

MW-2078_022125	MW-2078_022125	MW-2075_022125	M <b>W-207</b> S_022125	MW-2078_022125	MW-2078_022125	TRIP BLANK_61	Client Sample ID
240-219436-F-2	240-219436-E-2	240-219436-D-2	240-219436-C-2	240-219436-B-2	240-219436-A-2	240-219436-A-1	Lab ID
Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Container Type			
							<u>Container</u> <u>Preservation</u> <u>Preservation</u> <u>pH</u> <u>Temp</u> <u>Added</u> <u>Lot Number</u>

### **DATA VERIFICATION REPORT**



March 05, 2025

Megan Meckley Arcadis 28550 Cabot Drive Suite 500 Novi, MI US 48377

CADENA project ID: E203728 Project: Ford Livonia Transmission Plant - ON-SITE Soil Gas, Ground Water and Soil Project number: 30251157.401.04 (vapor 301.04) 30206169.0401.04 Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 219436-1 Sample date: 2025-02-21 Report received by CADENA: 2025-03-05 Initial Data Verification completed by CADENA: 2025-03-05 Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

**Project Scientist** 

### **CADENA Valid Qualifiers**

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

### **Analytical Results Summary**

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory Submittal: 219436-1

		Sample Name: Lab Sample ID: Sample Date:	2/21/20	4361 25			MW-207 240219 2/21/20	4362 25	25	
	Analyte	Cas No.	Result	Report Limit		Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS VOC										
<u>OSW-826</u>										
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
<u>OSW-826</u>	<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 # 240-219436-1 CADENA Verification Report: 2025-03-05

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 58470R Review Level: Tier III Project: 30206169.0401.02

### **SUMMARY**

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-219436-1 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	Perent Semple	Ana	lysis
Sample ID		Maurix	Collection Date	Parent Sample	voc	VOC SIM
TRIP BLANK_61	240-219436-1	Water	02/21/2025		Х	
MW-207S_022125	240-219436-2	Water	02/21/2025		Х	Х

### DATA REVIEW

### ANALYTICAL DATA PACKAGE DOCUMENTATION

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

	Items Reviewed	Reported			mance ptable	Not
		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		Х	
5.	Reporting limits		Х		Х	
6.	Sample collection date		Х		Х	
7.	Laboratory sample received date		Х		Х	
8.	Sample preservation verification (as applicable)		Х		Х	
9.	Sample preparation/extraction/analysis dates		Х		Х	
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	

### **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.

### DATA REVIEW

### 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 REVIEW

### DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Nequireu
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		X	
Tier III Validation		1		-	
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		Х		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	
Notes:					

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

SIGNATURE:

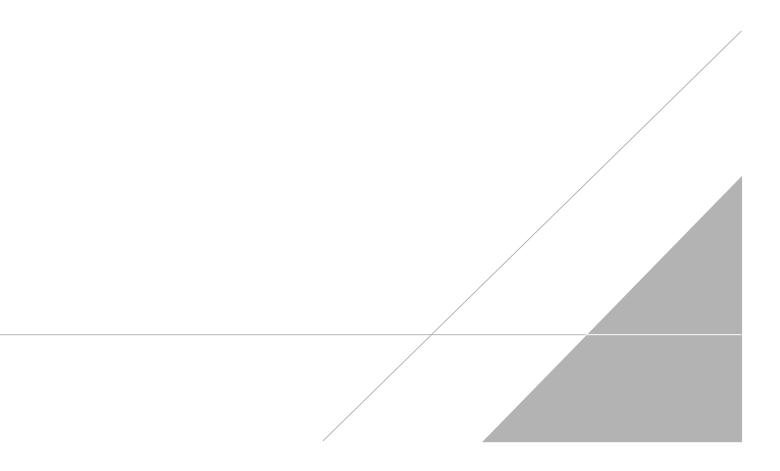
Parts
-------

DATE: March 21, 2025

PEER REVIEW: Andrew Korycinski

DATE: March 26, 2025

### NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS





### Chain of Custody Record



TestAmerica Laboratory location: Farmington Hills --- 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

Client Contact	Regulat	tory program:	:		C D	w	r N	PDES		f l	RCRA	ſ	Oth	er 🗌										
ompany Name: Arcadis	Client Project Manager: Megan Meckley					Site Contact: Samantha Szpaichler Lab Contact:					ontact: Mike DelMonico					TestAmerica Laboratories, 1 COC No:								
ddress: 28550 Cabot Drive, Suite 500	Telephone: 248-994-2240										Telephone: 330-497-9396					_								
ity/State/Zip: Novi, MI, 48377																1 of 1 COCs								
hone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.	com			Analysis Turnaround Time					Analyses						For lab use only						
roject Name: Ford LTP	Sampler Name: Jesenny Myrcs					TAT if different from below 3 weeks 10 day 2 weeks 10 day 2 weeks 1 day 1 day											Walk-in client							
roject Number: 30206169.0401.03	Method of Shipment/Carrier: Shipping/Tracking No:				rians-1.2-DCE 8260D Trans-1.2-DCE 8260D PCE 8260D TCE 8260D Vinyl Chloride 8260D Vinyl Chloride 8260D SIM						Job/SDG No													
O # US3460021848				_																				
	Matrix			x	HISO4 HICO NoOH HICO NoOH HICO NoOH HICC NoOH HICO HICC Composite-C/C Composite-C/C					E 8260	5 82601 DCE 82	,2-DCE	2-DCE 60D 60D	60D	Vinyl Chloride 8260D	xane 8;	3							
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment	Solid Other:	H2S04	HICI HINOS	NaOH	ZnAd N=0H	Unpres Other:	Other: Filtered Compo	1.1-DC	cis-1,2-DCE 8260D	Trans-1	PCE 8260D TCE 8260D	TCE 82	Vinyl C	1,4-Dio				Sample Specific Notes / Special Instructions:	
				1				1				N	۱G	X	Х	х	х	x	x					1 Trip Blank
MW-2075_022125	02/21/25	10:35	'	6				Ŵ				!	VĖ	Х	X	Х	$\times$	X	X	$\times$				3 VOAs for 8260D 3 VOAs for 8260D SI
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																								646
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	-					1					+	+										1		240-219436 COC
												╈	+	╞					-					
			$\top$																1					
Possible Hazard Identification	ant TPoise	on B [	Jnk	nown	<u> </u>		Sai			al (A O Clien	fee may	be asso Disp					ned lon archive		an 1 m	ionth) Moi	nths			
pecial Instructions/QC Requirements & Comments: iubmit all results through Cadena at jtomalia@cadenac evel IV Reporting requested.	125 St	FAVK Ya	_				<u> </u>					-,												
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clinquished by:	Company:	adi)		Date	Time: 24	125	16	55			20	A		-		Company						Date/Time:		
telinquished by	Company	L		Date	Time	25 0	Received in Laboratory by:					Сотралу:						Date/Time:						

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Client: Arcadis US Inc. Project/Site: Ford LTP

PRES

QC RER

RL

RPD

TEF

TEQ

TNTC

Presumptive Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Qualifiers		_ 3
GC/MS VOA Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	_
Glossary		- 5
Abbreviation	These commonly used abbreviations may or may not be present in this report.	6
¢	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	8
CNF	Contains No Free Liquid	0
DER	Duplicate Error Ratio (normalized absolute difference)	0
Dil Fac	Dilution Factor	9
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)	13
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	

Client: Arcadis US Inc. Project/Site: Ford LTP

### Client Sample ID: TRIP BLANK\_61

Date Collected: 02/21/25 00:00 Date Received: 02/26/25 08:00

Method: SW846 8260D - Volati	le Organic Comp	ounds by G	iC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/03/25 16:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/25 16:51	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 16:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/25 16:51	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 16:51	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/25 16:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		03/03/25 16:51	1
4-Bromofluorobenzene (Surr)	99		56 - 136					03/03/25 16:51	1
Toluene-d8 (Surr)	108		78 - 122					03/03/25 16:51	1
Dibromofluoromethane (Surr)	104		73 - 120					03/03/25 16:51	1

Job ID: 240-219436-1

**8** 9

### Client Sample ID: MW-207S\_022125

Date Collected: 02/21/25 10:35 Date Received: 02/26/25 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			02/27/25 15:56	1	ï
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	108		68 - 127			-		02/27/25 15:56	1	
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS							ŝ
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/03/25 17:16	1	Ē
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/25 17:16	1	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 17:16	1	
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/25 17:16	1	
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 17:16	1	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/25 17:16	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		03/03/25 17:16	1	
4-Bromofluorobenzene (Surr)	98		56 _ 136					03/03/25 17:16	1	
Toluene-d8 (Surr)	108		78 - 122					03/03/25 17:16	1	
Dibromofluoromethane (Surr)	104		73 - 120					03/03/25 17:16	1	1

3/5/2025

Job ID: 240-219436-1

### Lab Sample ID: 240-219436-2 Matrix: Water