

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 12/2/2022 8:33:58 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-176528-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203





Eurofins Canton

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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Authorization

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Authorized for release by Opal Johnson, Project Manager II <u>Opal.Johnson@et.eurofinsus.com</u> Designee for Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Generated 12/2/2022 8:33:58 AM

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Qualifiers

GC/MS VOA	
Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

- TEQ Toxicity Equivalent Quotient (Dioxin)
- TNTC Too Numerous To Count

Job ID: 240-176528-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-176528-1

Receipt

The samples were received on 11/16/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.9°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 U.S., Inc. Project/Site: Ford LTP - Off Site

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

Protocol References:

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

Laboratory References:

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

Sample Summary

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-176528-1	TRIP BLANK_221	Water	11/14/22 00:00	11/16/22 08:00
240-176528-2	MW-80SR_111422	Water	11/14/22 10:46	11/16/22 08:00

Detection Summary

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

Client Sample ID: TRIP BLANK_221

Lab Sample ID: 240-176528-1

Job ID: 240-176528-1

No Detections.

Client Sample ID: MW-80SR_111422Lab Sample ID: 240-176528-2AnalyteResultQualifierRLMDLUnitDil FacDMethodPrep TypeVinyl chloride4.21.00.45ug/L-1DMethodPrep Type

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK_221 Date Collected: 11/14/22 00:00 Date Received: 11/16/22 08:00

Lab Sample ID: 240-176528-1 Matrix: Water

Matrix: Water

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/25/22 13:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/25/22 13:29	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/25/22 13:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/25/22 13:29	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/25/22 13:29	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/25/22 13:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		62 - 137			-		11/25/22 13:29	1
4-Bromofluorobenzene (Surr)	78		56 - 136					11/25/22 13:29	1
Toluene-d8 (Surr)	92		78 - 122					11/25/22 13:29	1
Dibromofluoromethane (Surr)	90		73 - 120					11/25/22 13:29	1

Client Sample ID: MW-80SR_111422 Date Collected: 11/14/22 10:46 Date Received: 11/16/22 08:00

Lab Sample ID: 240-176528-2 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			11/23/22 01:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		66 - 120			-		11/23/22 01:55	1
Method: SW846 8260D - Vo	olatile Organic	Compoun	ds by GC/MS	1					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/25/22 17:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/25/22 17:39	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/25/22 17:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/25/22 17:39	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/25/22 17:39	1
Vinyl chloride	4.2		1.0	0.45	ug/L			11/25/22 17:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137			-		11/25/22 17:39	1
4-Bromofluorobenzene (Surr)	75		56 - 136					11/25/22 17:39	1
Toluene-d8 (Surr)	91		78 - 122					11/25/22 17:39	1
Dibromofluoromethane (Surr)	94		73 - 120					11/25/22 17:39	1

Surrogate Summary

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

Matrix: Water						Prep Type: Total/NA
			Pe	ercent Surre	ogate Recovery (A	cceptance Limits)
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-176528-1	TRIP BLANK_221	93	78	92	90	
240-176528-2	MW-80SR_111422	97	75	91	94	
240-176621-A-2 MS	Matrix Spike	84	95	95	84	
240-176621-D-2 MSD	Matrix Spike Duplicate	85	94	96	85	
LCS 240-553445/5	Lab Control Sample	86	92	97	88	
MB 240-553445/8	Method Blank	89	77	91	88	
Surrogate Legend						
DCA = 1,2-Dichloroeth	ane-d4 (Surr)					
BFB = 4-Bromofluorob	enzene (Surr)					
TOL = Toluene-d8 (Su	rr)					
DBFM = Dibromofluor	omethane (Surr)					
Method: 8260D S	IM - Volatile Organic	Compoun	ds (GC/	MS)		
Matrix: Water						Prep Type: Total/NA
—						

			Percent Surrogate Recovery (Acceptance Limits)	5
		DCA		
Lab Sample ID	Client Sample ID	(66-120)		
240-176528-2	MW-80SR_111422	81		
240-176530-B-2 MS	Matrix Spike	79		
240-176530-B-2 MSD	Matrix Spike Duplicate	81		
LCS 240-553220/3	Lab Control Sample	79		
MB 240-553220/5	Method Blank	77		
Surrogate Legend				

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

Job ID: 240-176528-1

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

Lab Sample ID: MB 240-553445/8 Matrix: Water

Analysis Batch: 553445

MB	MB							
Analyte Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene1.0	U	1.0	0.49	ug/L			11/25/22 13:03	1
cis-1,2-Dichloroethene 1.0	U	1.0	0.46	ug/L			11/25/22 13:03	1
Tetrachloroethene 1.0	U	1.0	0.44	ug/L			11/25/22 13:03	1
trans-1,2-Dichloroethene 1.0	U	1.0	0.51	ug/L			11/25/22 13:03	1
Trichloroethene 1.0	U	1.0	0.44	ug/L			11/25/22 13:03	1
Vinyl chloride 1.0	U	1.0	0.45	ug/L			11/25/22 13:03	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		62 - 137		11/25/22 13:03	1
4-Bromofluorobenzene (Surr)	77		56 - 136		11/25/22 13:03	1
Toluene-d8 (Surr)	91		78 - 122		11/25/22 13:03	1
Dibromofluoromethane (Surr)	88		73 - 120		11/25/22 13:03	1

Lab Sample ID: LCS 240-553445/5 Matrix: Water Analysis Batch: 553445

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	28.1		ug/L		112	63 - 134	
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	77 - 123	
Tetrachloroethene	25.0	22.9		ug/L		92	76 - 123	
trans-1,2-Dichloroethene	25.0	23.7		ug/L		95	75_124	
Trichloroethene	25.0	21.7		ug/L		87	70 - 122	
Vinyl chloride	12.5	13.5		ug/L		108	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		62 - 137
4-Bromofluorobenzene (Surr)	92		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	88		73 - 120

95

95

Lab Sample ID: 240-176621-A-2 MS **Matrix: Water** Analysis Batch: 553445

4-Bromofluorobenzene (Surr)

Toluene-d8 (Surr)

· · · · · · · · · · · · · · · · · · ·	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	25.0	24.1		ug/L		97	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	21.7		ug/L		87	66 - 128
Tetrachloroethene	1.0	U	25.0	21.4		ug/L		85	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	21.1		ug/L		84	56 - 136
Trichloroethene	1.0	U	25.0	19.6		ug/L		78	61 - 124
Vinyl chloride	3.2		12.5	15.5		ug/L		99	43 - 157
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	84		62 - 137						

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

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

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56 - 136

78 - 122

QC Sample Results

Job ID: 240-176528-1

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

Lab Sample ID: 240-176621-A-2 MS **Client Sample ID: Matrix Spike** Matrix: Water Prep Type: Total/NA Analysis Batch: 553445 MS MS %Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 84 73 - 120 **Client Sample ID: Matrix Spike Duplicate** Lab Sample ID: 240-176621-D-2 MSD Matrix: Water Prep Type: Total/NA Analysis Batch: 553445 Sample Sample Spike MSD MSD %Rec RPD **Result Qualifier** Added Limits RPD Limit Analyte **Result Qualifier** Unit D %Rec 1.0 U 1,1-Dichloroethene 25.0 23.9 ug/L 95 56 - 135 1 26 cis-1,2-Dichloroethene 1.0 U 25.0 21.3 ug/L 85 66 - 128 2 14 Tetrachloroethene 1.0 U 25.0 22.4 ug/L 90 62 - 131 5 20 trans-1.2-Dichloroethene 1.0 U 25.0 20.3 81 15 ug/L 56 - 136 4 Trichloroethene 1.0 U 25.0 19.7 ug/L 79 61 - 124 0 15 Vinyl chloride 3.2 12.5 14.4 ug/L 90 43 - 157 8 24 MSD MSD %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 85 62 - 137 4-Bromofluorobenzene (Surr) 94 56 - 136 Toluene-d8 (Surr) 96 78 - 122 Dibromofluoromethane (Surr) 85 73 - 120 Method: 8260D SIM - Volatile Organic Compounds (GC/MS) Lab Sample ID: MB 240-553220/5 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA Analysis Batch: 553220 MB MB Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 11/22/22 18:19 1 MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 77 66 - 120 11/22/22 18:19 1 Lab Sample ID: LCS 240-553220/3 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Analysis Batch: 553220 Spike LCS LCS %Rec Added Result Qualifier Analyte Unit D %Rec Limits 1,4-Dioxane 10.0 9.37 ug/L 94 80 - 122 LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 79 **Client Sample ID: Matrix Spike** Lab Sample ID: 240-176530-B-2 MS Prep Type: Total/NA Matrix: Water Analysis Batch: 553220 Sample Sample Spike MS MS %Rec **Result Qualifier** Added **Result Qualifier** Limits Analyte Unit D %Rec 1,4-Dioxane 2.0 U 10.0 10.0 ug/L 100 51 - 153

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

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	79		66 - 120									
_ Lab Sample ID: 240-1765	30-B-2 MSD					Client	Samn	le ID: N	latrix Spi	ke Dun	licate	
Matrix: Water						•			Prep Ty			
Analysis Batch: 553220												
-	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	9.85		ug/L		98	51 - 153	2	16	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	81		66 - 120									

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QC Association Summary

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

GC/MS VOA

Analysis Batch: 553220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-176528-2	MW-80SR_111422	Total/NA	Water	8260D SIM	
MB 240-553220/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-553220/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-176530-B-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-176530-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-176528-1	TRIP BLANK_221	Total/NA	Water	8260D	
240-176528-2	MW-80SR_111422	Total/NA	Water	8260D	
MB 240-553445/8	Method Blank	Total/NA	Water	8260D	
LCS 240-553445/5	Lab Control Sample	Total/NA	Water	8260D	
240-176621-A-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-176621-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Job ID: 240-176528-1
2
3
od Prep Batch
5
SIM
5
SIM
5
SIM
5
SIM
6
7
od Prep Batch
8

Matrix: Water

Lab Sample ID: 240-176528-1

Client Sample ID: TRIP BLANK_221 Date Collected: 11/14/22 00:00 Date Received: 11/16/22 08:00

Analysis

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	553445	LEE	EET CAN	11/25/22 13:29
lient Sam	ple ID: MW	-80SR_111422					Lab	Sample ID: 240-17652
ate Collecte	d: 11/14/22 1	0:46						- Matrix: W
ate Receive	d: 11/16/22 0	8:00						
	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Batch Type	Batch Method	Run	Dilution Factor		Analyst	Lab	Prepared or Analyzed

1

553220 CS

EET CAN

11/23/22 01:55

Laboratory References:

Total/NA

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

8260D SIM

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

Laboratory: Eurofins Canton

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

Authority	Program	Identification Number	Expiration Date	
California	State	2927	02-27-23	
Connecticut	State	PH-0590	12-31-23	
Florida	NELAP	E87225	06-30-23	
Georgia	State	4062	02-27-23	
Illinois	NELAP	200004	07-31-23	
lowa	State	421	06-01-23	
Kentucky (UST)	State	112225	02-27-23	
Kentucky (WW)	State	KY98016	12-31-22	
Minnesota	NELAP	039-999-348	12-31-22	
Minnesota (Petrofund)	State	3506	08-01-23	
New Jersey	NELAP	OH001	06-30-23	
New York	NELAP	10975	04-01-23	
Ohio	State	8303	02-27-23	
Ohio VAP	State	CL0024	02-27-23	
Oregon	NELAP	4062	02-27-23	
Pennsylvania	NELAP	68-00340	08-31-23	
Texas	NELAP	T104704517-22-17	08-31-23	
Virginia	NELAP	460175	09-14-23	
Washington	State	C971	01-12-23	
West Virginia DEP	State	210	12-31-22	

MICHIGAN 190 Tee	Chain TestAmerica Laboratory location: <u>Brighton</u> — 10448 Citatic	Chain of Custody Record 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	3.4) 3. Testamerica
Client Contact Common Name: A readle	Regulatory program:	r NPDES RCRA Other	
Address: 28560 Cabat Drive Suite 500	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver ILab Contact: Mike DelMonico	elMonico COC No:
City/State/Zin-Navi MH 18177	Telephone: 248-994-2240	Telephone: 248-994-2293 Telephone: 330-497-9396	3966
Dh.mo. 748 001 7740	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Thme	nly
r noue. 2442 5442 544 Project Name: Ford LTP Off-Site	Sampler Name: HULA TEMPELIN	TAT it different from below 3 weeks 10 dav 2 weeks	Walk-in client Lab sampline
Project Number: 30146655.402.04 PO # 30146655.402.04	Method of Shipment/Carrier: Shipping/Tacking No:	1 week Crab=C days days day (Y/N)	WIS 809
Sample Identification	Sample Date Sample Time Kit Matrix	PCE 82608 PCE 82608 PCE 82608 PCE 82608 PCE 82608 PCP 82608	Vinyl Chloride 8 Sample Specific Notes / Special Instructions:
TRIP BLANK_221	11/14/11 P2/14/11	×	X X 1 1 Trip Blank
- MW - 805 - 111422	11/14/22/0:46 6	XXXXX NGXXXX	CXX 3 VOAs for 8260B 3 VOAs for 8260B SIM
		240-176528 Chain of Custody	
Possible Mazard Identification > Non-Hazard Lentification Special Instructions/UC Requirements & Commeps: Sample Address: Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requésted	tant ⊂ Poison B Unknown :o.com. Cadena #E203631	Sample Disposal (A fee finay be assessed if samples are retained longer than 1 Return to Client P Disposal By Lab Archive For T	r than 1 month) 1 — Months
Relinquished by: Relinquished by: Relinquished by: Relinquished by:	Company: Mr.Co.W.G DaterTigue: Mr. Company: ARCALUES DaterTigue: AD Company: ARCALUES DaterTigue: AD Company: ACCALUES DaterTigue: AD	16-20 Received by (2) of Shorage of OPOO Received by). 4/00 Received by).	Company: Com

Eurofins - Canton Sample Receipt Form/Narrative Login # :Le52_X Barberton Facility
Client ARCadis Site Name Cooler unpacked by
Cooler Received on 11-16 22 Opened on 11-16-22 RAChelk HAIdet
FedEx: 1 st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other
Receipt After-hours: Drop-off Date/Time Storage Location Eurofins Cooler # 77 Foam Box Client Cooler Box Other
Packing material used: The transfer Chefit Cooler Box Other Packing material used: The transfer Chefit Cooler Bag None Other COOLANT: Cooler temperature upon receipt IR GUN# IR-13 (CF +0.7 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C IR GUN #IR-15 (CF 0.0 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity / ·Were the seals on the outside of the cooler(s)? If Yes Quantity / ·Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? ·Were tamper/custody seals intact and uncompromised? Shippers' packing slip attached to the cooler(s)? Shippers' packing slip attached to the cooler(s)? Were the custody papers accompany the sample(s)? Were the ustody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC? Did all bottle sarrive in good condition (Unbroken)? Could all bottle labels (ID/Date/Time) be reconciled with the COC? For each sample, does the COC specify preservatives (N), # of containers (N), and sample type of grab/comp. (N)?
11. Sufficient quantity received to perform indicated analyses?
12. Are these work share samples and all listed on the COC? If yes, Questions 13-17 have been checked at the originating laboratory.
 13. Were all preserved sample(s) at the correct pH upon receipt? 14. Were VOAs on the COC? 15. Were air bubbles >6 mm in any VOA vials? 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 0 042016 Yes No 17. Was a LL Hg or Me Hg trip blank present?
Contacted PM Date by via Verbal Voice Mail Other
Concerning
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES D additional next page Samples processed by:
19. SAMPLE CONDITION
Sample(s) were received after the recommended holding time had expired.
Sample(s) were received after the recommended holding time had expired. Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)
20. SAMPLE PRESERVATION
Sample(s)
Sample(s)
VOA Sample Preservation - Date/Time VOAs Frozen:

DATA VERIFICATION REPORT



December 03, 2022

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

CADENA project ID: E203631 Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater Project number: 30146655.402.04 off-site Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Barberton Laboratory submittal: 176528-1 Sample date: 2022-11-14 Report received by CADENA: 2022-12-02 Initial Data Verification completed by CADENA: 2022-12-03 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.
E	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than $5x$ (or $10x$ for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than $10x$ the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Barberton Laboratory Submittal: 176528-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401765 11/14/2	5281			MW-809 2401769 11/14/2	5282	22	
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-8260</u>	<u> </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		4.2	1.0	ug/l	
<u>OSW-8260</u>	DDSIM									
	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 # 240-176528-1 CADENA Verification Report: 2022-12-03

Analyses Performed By: TestAmerica North Canton, Ohio

Report # 47930R Review Level: Tier III Project: 30146655.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-176528-1 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:

O among la UD	L-L D	N - Anton	Sample Collection	Descet Occursio	Analysis		
Sample ID	Lab ID	Matrix	Date	Parent Sample	VOC	VOC SIM	
TRIP BLANK_221	240-176528-1	Water	11/14/2022		Х		
MW-80SR_111422	240-176528-2	Water	11/14/2022		Х	Х	

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed		orted		mance ptable	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		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.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

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

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

A field duplicate sample is 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.

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	Perfo Acce	Not	
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
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	
lon abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		Х		Х	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

- RPD Relative percent difference
- %D Percent difference

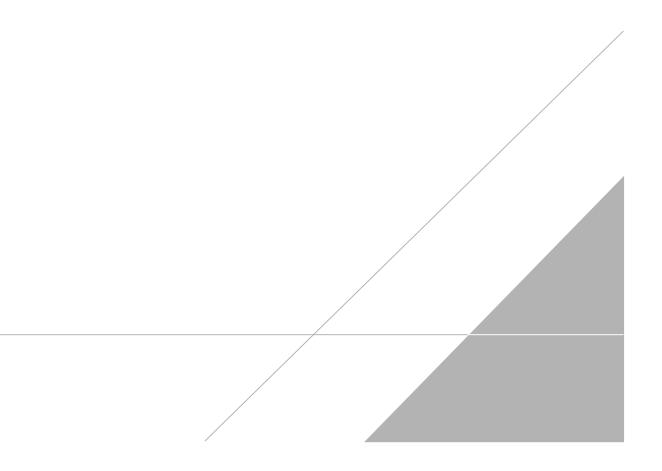
VALIDATION PERFORMED BY:	Hareesha Naik
SIGNATURE:	Habit
DATE:	December 14, 2022

PEER REVIEW: Andrew Korycinski

DATE: December 17, 2022

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS





Chain of Custody Record

3.9 3.9

TestAmerica

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

Client Contact Company Name: Arcadis	Regulat	ory program:		1	DW	r	NP	PDES		RCR	А	□ □ 0	other									TestAmerica Laborato	wine la
	Client Project	danager: Kris	Hinske	y		Sit	Site Contact: Christina Weaver				Lat	Lab Contact: Mike DelMonico					COC No:						
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	Telephone: 248-994-2240				Te	Telephone: 248-994-2293					Tel	ephone	: 330-	497-93	96							
City/State/Zip: Novi, MI, 48377	E	1.1.0				_						Telephone: 330-497-9396					1 of 1 CC For lab use only	OCs					
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	1			M	atrix		Ce	ontainer	s & Pr	eservativ	es	da (=C/	E 82	DCE			de	e 82			Province 1	
Sample Identification	Sample Date	Sample Time	Air	Aqueous Sediment	Solid Other:	H2SD4	HNO3	HCI	NaOH	Vapres	Other:	Filtered Sa	Composite=C/Grab=G 1,1-DCE 8260B	cis-1.2-DCE 8260B	Trans-1,2-DCE	PCE 8260B	TCE 8260B	Vinyl Chloride 8260B	1,4-Dioxane 8260B SIM			Sample Specific No Special Instructio	
TRIP BLANK_ 221	11/14/22			1				1				N	1	<u> </u>	1	X	X	X				1 Trip Blank	
MW-8058-111422	11/14/22			6		+	1	1/				P		X	X	V	X	X	X			3 VOAs for 8260B 3 VOAs for 8260B	
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12/2/2022

Qualifiers

GC/MS VOA	
Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

- TEQ Toxicity Equivalent Quotient (Dioxin)
- TNTC Too Numerous To Count

Client Sample ID: TRIP BLANK_221 Date Collected: 11/14/22 00:00 Date Received: 11/16/22 08:00

Lab Sample ID: 240-176528-1 Matrix: Water

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			11/25/22 13:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/25/22 13:29	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/25/22 13:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/25/22 13:29	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/25/22 13:29	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/25/22 13:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		62 - 137			-		11/25/22 13:29	1
4-Bromofluorobenzene (Surr)	78		56 - 136					11/25/22 13:29	1
Toluene-d8 (Surr)	92		78 - 122					11/25/22 13:29	1
Dibromofluoromethane (Surr)	90		73 - 120					11/25/22 13:29	1

Client Sample ID: MW-80SR_111422 Date Collected: 11/14/22 10:46 Date Received: 11/16/22 08:00

Lab Sample ID: 240-176528-2 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			11/23/22 01:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		66 - 120			-		11/23/22 01:55	1
Method: SW846 8260D - Vo	latile Organic	Compound	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/25/22 17:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/25/22 17:39	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/25/22 17:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/25/22 17:39	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/25/22 17:39	1
Vinyl chloride	4.2		1.0	0.45	ug/L			11/25/22 17:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137			-		11/25/22 17:39	1
4-Bromofluorobenzene (Surr)	75		56 - 136					11/25/22 17:39	1
Toluene-d8 (Surr)	91		78 - 122					11/25/22 17:39	1
Dibromofluoromethane (Surr)	94		73 - 120					11/25/22 17:39	1