

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 8/30/2023 7:55:35 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-190404-1

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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Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396

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Qualifiers

TEF

TEQ

TNTC

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

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

Job ID: 240-190404-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-190404-1

Receipt

The samples were received on 8/18/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C

GC/MS VOA

Method 8260D: The matrix spike/matrix spike duplicate (MS/MSD) for samples TRIP BLANK_106 (240-190404-1) and MW-152S_081623 (240-190404-2) was not reported, because the analyte list for these samples did not match the analyte list for the MS/MSD parent sample.

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

Method Summary

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

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

Protocol References:

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

Laboratory References:

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

Sample Summary

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-190404-1	TRIP BLANK_106	Water	08/16/23 00:00	08/18/23 08:00
240-190404-2	MW-152S_081623	Water	08/16/23 16:00	08/18/23 08:00

Detection	Summary

Client Sample ID: TRIP BLANK_106

No Detections.

Client Sample ID: MW-152S_081623

No Detections.

Lab Sample ID: 240-190404-1

Lab Sample ID: 240-190404-2

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK_106 Date Collected: 08/16/23 00:00 Date Received: 08/18/23 08:00

Lab Sample ID: 240-190404-1

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			08/28/23 15:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/28/23 15:35	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/28/23 15:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/28/23 15:35	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/28/23 15:35	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/28/23 15:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137					08/28/23 15:35	1
4-Bromofluorobenzene (Surr)	89		56 - 136					08/28/23 15:35	1
Toluene-d8 (Surr)	100		78 - 122					08/28/23 15:35	1
Dibromofluoromethane (Surr)	103		73 - 120					08/28/23 15:35	1

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Client Sample ID: MW-152S_081623 Date Collected: 08/16/23 16:00 Date Received: 08/18/23 08:00

Lab Sample ID: 240-190404-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/25/23 16:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		66 - 120			-		08/25/23 16:54	1
Method: SW846 8260D - Vo	platile Organic	Compoun	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/28/23 18:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/28/23 18:31	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/28/23 18:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/28/23 18:31	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/28/23 18:31	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/28/23 18:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137			-		08/28/23 18:31	1
4-Bromofluorobenzene (Surr)	89		56 - 136					08/28/23 18:31	1
Toluene-d8 (Surr)	101		78 - 122					08/28/23 18:31	1
Dibromofluoromethane (Surr)	104		73 - 120					08/28/23 18:31	1

Surrogate Summary

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

MW-152S_081623

Lab Control Sample

Method Blank

latrix: Water		· ·				Prep Type: Total/NA
			Pe	ercent Surro	ogate Recovery (Ad	cceptance Limits)
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-190404-1	TRIP BLANK_106	110	89	100	103	
240-190404-2	MW-152S_081623	109	89	101	104	
_CS 240-585360/4	Lab Control Sample	103	102	106	102	
AB 240-585360/7	Method Blank	109	90	100	101	
Surrogate Legend	ane-d4 (Surr)					
BFB = 4-Bromofluorob						
TOL = Toluene-d8 (Sur	т)					
DBFM = Dibromofluoro	omethane (Surr)					
ethod: 8260D S	IM - Volatile Organic	Compound	ds (GC/	MS)		
trix: Water		· ·	•			Prep Type: Total/NA
			Pe	ercent Surro	ogate Recovery (Ac	ceptance Limits)
		DCA				
ab Sample ID	Client Sample ID	(66-120)				
40-190229-C-3 MS	Matrix Spike	111				
240-190229-C-3 MSD	Matrix Spike Duplicate	111				

119

100

108

240-190404-2

LCS 240-585153/5

MB 240-585153/7

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

Job ID: 240-190404-1

Eurofins Cleveland

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: MB 240-585360/7

Matrix: Water Analysis Batch: 585360

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			08/28/23 14:20	1
cis-1,2-Dichloroethene 1.0	U	1.0	0.46	ug/L			08/28/23 14:20	1
Tetrachloroethene 1.0	U	1.0	0.44	ug/L			08/28/23 14:20	1
trans-1,2-Dichloroethene 1.0	U	1.0	0.51	ug/L			08/28/23 14:20	1
Trichloroethene 1.0	U	1.0	0.44	ug/L			08/28/23 14:20	1
Vinyl chloride 1.0	U	1.0	0.45	ug/L			08/28/23 14:20	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137		08/28/23 14:20	1
4-Bromofluorobenzene (Surr)	90		56 - 136		08/28/23 14:20	1
Toluene-d8 (Surr)	100		78 - 122		08/28/23 14:20	1
Dibromofluoromethane (Surr)	101		73 - 120		08/28/23 14:20	1

Lab Sample ID: LCS 240-585360/4 Matrix: Water Analysis Batch: 585360

	Spike	LCS LC	S		%Rec	
Analyte	Added	Result Qu	alifier Unit	D %Rec	Limits	
1,1-Dichloroethene		26.2	ug/L	105	63 - 134	
cis-1,2-Dichloroethene	25.0	23.2	ug/L	93	77 - 123	
Tetrachloroethene	25.0	25.5	ug/L	102	76 - 123	
trans-1,2-Dichloroethene	25.0	24.1	ug/L	96	75 - 124	
Trichloroethene	25.0	24.2	ug/L	97	70 - 122	
Vinyl chloride	12.5	10.7	ug/L	86	60 - 144	
L	CS LCS					

%Recovery	Qualifier	Limits
103		62 - 137
102		56 - 136
106		78 - 122
102		73 - 120
	103 102 106	102 106

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

Lab Sample ID: MB 240-585153 Matrix: Water Analysis Batch: 585153	3/7						Client Sam	ple ID: Method Prep Type: To	
	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/25/23 12:00	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		66 - 120					08/25/23 12:00	1

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

- Lab Sample ID: LCS 240-	-585153/5					Clie	nt Sar	nple ID	: Lab Cor	ntrol Sa	ample
Matrix: Water									Prep Ty		
Analysis Batch: 585153											
-			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane			10.0	9.06		ug/L		91	80 - 122		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	100		66 - 120								
Lab Sample ID: 240-1902	29-C-3 MS						CI	ient Sa	mple ID: I	Matrix \$	Spike
Matrix: Water									· Prep Ty		
Analysis Batch: 585153											
-	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	2.0	U	10.0	10.2		ug/L		102	51 - 153		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	111		66 - 120								
Lab Sample ID: 240-1902	20-C-3 MSD					Client	Samn		latrix Spil	ko Dun	licato
Matrix: Water	29-C-3 WISD					Chem	Samp		Prep Ty		
Analysis Batch: 585153										•	
	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	10.6		ug/L		106	51 - 153	4	16
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)			66 - 120								

Eurofins Cleveland

GC/MS VOA

Analysis Batch: 585153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-190404-2	MW-152S_081623	Total/NA	Water	8260D SIM	
MB 240-585153/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-585153/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-190229-C-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-190229-C-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Bat
240-190404-1	TRIP BLANK_106	Total/NA	Water	8260D	
240-190404-2	MW-152S_081623	Total/NA	Water	8260D	
MB 240-585360/7	Method Blank	Total/NA	Water	8260D	
LCS 240-585360/4	Lab Control Sample	Total/NA	Water	8260D	

Job ID: 240-190404-1

Client Sample ID: TRIP BLANK_106 Date Collected: 08/16/23 00:00 Date Received: 08/18/23 08:00

	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260D		1	585360	CDG	EET CLE	08/28/23 15:35	
lient Sam	ple ID: MW	-152S 08162	3				Lab	Sample ID: 24	0-190404-:
ate Collecte	•								
	a. 00/10/23 1	0.00						I. I	/latrix: Wate
	d: 08/18/23 0								latrix: wate
				Dilution	Batch			Prepared	natrix: wate
ate Receive	d: 08/18/23 0	8:00	Run	Dilution Factor	Batch Number	Analyst	Lab		
	d: 08/18/23 0 Batch	8:00 Batch	Run		Number	Analyst CDG	Lab EET CLE	Prepared	

Laboratory References:

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

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Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Job ID: 240-190404-1

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Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24
Georgia	State	4062	02-27-24
Illinois	NELAP	200004	07-31-24
lowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23 *
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-02-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-27-24
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

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

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1 1 <th1< th=""> 1 1 1</th1<>	Sample Identification	Samp Auron Matri Matri Marrin Marrin Matri Marrin M	Composite-C Pittered Samp Sa	IS-1,2-DCE 8: CE 8260D CE 8260D	Sample Specific Notes / Special Instructions:
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	TRIP BLANK_ /04		Z ()	X X X X	1 Trip Blank
arrholo arrholo arrholo arrholo arrholo arrholo 08/25/2023 08/25/2023 arrholo arrholo arrholo arrholo 1 Proton Bi Unboon arrholo arrholo arrholo 1 Proton Bi Jalo Arrholo arrholo arrholo 1 Proton Bi Jalo Arrholo Arrholo arrholo 1 Proton Bi Jalo Jalo Arrholo Arrholo 1 Disposition Arrholo Arrholo Arrholo Arrholo 1 Disposition Arrholo Arrholo Arrholo Arrholo 1 Disposition Arrhol	1525	16.00		y x x x	3 VOAs for 8260D
Poscon B Lubrown Zan-190an Poscon B Lubrown Sample Disposal (A fer my be assessed ff samples are retained longer than 1 month) SS Sample Disposal (A fer my be assessed ff samples are retained longer than 1 month) SS Sample Disposal (A fer my be assessed ff samples are retained longer than 1 month) SS Sample Disposal (A fer my be assessed ff samples are retained longer than 1 month) SS Sample Disposal (A fer my be assessed ff samples are retained longer than 1 month) SS Darcfing Darcfing Sinny MC Darcfing Darcfing Darcfing Darcfing Darcfing Darcfing Sinny MC Darcfing Darcfing Darcfing Darcfing Darcfing Darcfing Darcfing Darcfing Sinny MC Darcfing	C.Weav			Chain of Custod	AD AD
Parson B Unknown Sample Briposal (A fee may be assessed if samples are related longer flam 1 month) SS SS Smith Return to Client Disposal By Lab Andonan #E203631 Months Amount Bate/Time Amount Date/Time Amount Date/Time <				240-19044	
St. m. Cadrens #203031 m. Cadrens #203031 m. Cadrens #203031 m. Carpeny m. Carpeny m. Carpeny m. Carpeny m. Carpeny m. Carpeny m. Carpeny m. Carpeny M. M. M	Possible Hazard Identification Non-Hazard Elammable Skin Irrit:	Poison B	Sample Disposal (A fee may be assessed if san Return to Client Disposal By Lat	Ē.	
ent llesger company. Company. Daverline: 21715 Received by: Cild Startege Commany. Received by: Cild Startege Commany. Received by: Cingany. EETH 211/33 1 Aur Mund. Company. Daverline: 21/7/23 1510 Received by: New EETH 21/33 1 Mr. Mund. Company. Daverline: 21/7/23 1510 Received by: New EETH 21/33 1 Mr. Mund. Company. Daverline: 21/7/33 1510 Received by: New EETH 21/33 1 Mr. Mund. Commany. Daverline: 21/7/33 1510 Received by: New EETH 21/33 1 Mr. Mund. Commany. Daverline: 21/7/33 1510 Received by: New EETH 21/33 1 Mr. Mund. Commany. Daverline: 21/7/33 1510 Received by: New EETH 21/33 151	pecial Instructions/QC Requirements & Comments, ample Address: 344550 /84466 ubmit all results through Cadena at Jornalia@cadenace avel IV Reporting requested.	≤7. Sm. Cadena #E203631		1	
And Mender and Stirling 1510 Received by New EETA Durchment, 2017 131 An Mende Company: Date Time 21/7/23 1510 Received by New EETA 21/1331 Price And Mende Company: Date The Description of the Company	ent Il	certis Date/Time	1715 Receive		111
	min h	LAUS Dave Time	3 1510 Received by: (5/0 Received in Labora		1 200
	1000) Traditeros Localoves IX, Al 1900, matemá Fedőreszá 8 Deust 14. az szementi si fedőressá Lacredo as Ixo		0		

Eurofins - Cleveland Sample Rece	eipt Form/Narrative	Login	#: 190	×404
Barberton Facility			1 Cooler u	packed by: M
Client Arcady S	Site Name	-18-13	V	fractice of the O
Cooler Received on 8100	Opened on D	1025	1 ho	
FedEx: 1st Grd Exp UPS FAS			Other	0 1
Receipt After-hours: Drop-off Date/I		Storage Location		
	Box Client Cooler Box			
Packing material used: Bubble	Wrap Foam Plastic Bag			
COOLANT: Weilet		None		
1. Cooler temperature upon receipt		See Multiple Cooler Fo		0.5
IR GUN # dd (CF	O (°C) Observed Cooler T	emp. <u>U.</u>	Corrected Cool	er Temp.
2. Were tamper/custody seals on the			No	Tests that are sol
-Were the seals on the outside of		(Ye	-	checked for pH by
	he bottle(s) or bottle kits (LLHg/M	ieHg)? Ye	s NO	Receiving:
-Were tamper/custody seals intac		Ye	No NA	MOLAS
3. Shippers' packing slip attached to the		Ye	s No	VOAs Oil and Grease
4. Did custody papers accompany the				TOC
5. Were the custody papers relinquish			No	
6. Was/were the person(s) who collect		on the COC?	No	
7. Did all bottles arrive in good condit		(Ye	No	
8. Could all bottle labels (ID/Date/Tin		S Va	No	Tarana
. For each sample, does the COC spe		tainers (YN), and s	V -	rab/comp(Y/N)?
0. Were correct bottle(s) used for the t			No	
1. Sufficient quantity received to perfe		Ye	No.	
2. Are these work share samples and a			No	
If yes, Questions 13-17 have been		ry.	\cap	
13. Were all preserved sample(s) at the	correct pH upon receipt?	Xes	\bigcirc .	Strip Lot# HC312502
14. Were VOAs on the COC?	· · · · · · · · · · · · · · · · · · ·	Ye		
15. Were air bubbles >6 mm in any VC	DA vials? • Larger than t	nus.	No NA	
C INC. NO. I IN I want in the	e cooler(s)? I np Blank Lot #	Loui ca Vas	NO	
16. Was a VOA trip blank present in th		ICS	eve	
 Was a LL Hg or Me Hg trip blank j 				
 Was a LL Hg or Me Hg trip blank p 		via Verbal V	oice Mail Oth	31
17. Was a LL Hg or Me Hg trip blank Contacted PM Date _ Concerning	by			
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DATA VERIFICATION REPORT



August 30, 2023

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

CADENA project ID: E203631 Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater Project number: 30167538.402.04 off-site Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 190404-1 Sample date: 2023-08-16 Report received by CADENA: 2023-08-30 Initial Data Verification completed by CADENA: 2023-08-30 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: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory Submittal: 190404-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401904 8/16/20	4041	5		MW-152 2401904 8/16/20	4042	23	
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-8260</u>	<u>D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	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-8260</u>	DSIM									
	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 # 240-190404-1 CADENA Verification Report: 2023-08-30

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 51162R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-190404-1 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	Barant Sampla	Analysis		
Sample ID		IVIALITX	Collection Date	Parent Sample	VOC	VOC SIM	
TRIP BLANK_106	240-190404-1	Water	08/16/2023		Х		
MW-152S_081623	240-190404-2	Water	08/16/2023		Х	X	

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

	Items Reviewed	Rep	Reported		mance otable	Not Required	
		No	Yes	No	Yes	Required	
1.	Sample receipt condition		Х		Х		
2.	Requested analyses and sample results		Х		Х		
3.	Master tracking list		Х		Х		
4.	Methods of analysis		Х		Х		
5.	Reporting limits		Х		Х		
6.	Sample collection date		Х		Х		
7.	Laboratory sample received date		Х		X		
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	Perfo Acce	Not Requirec	
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	iC/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		X	
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	

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

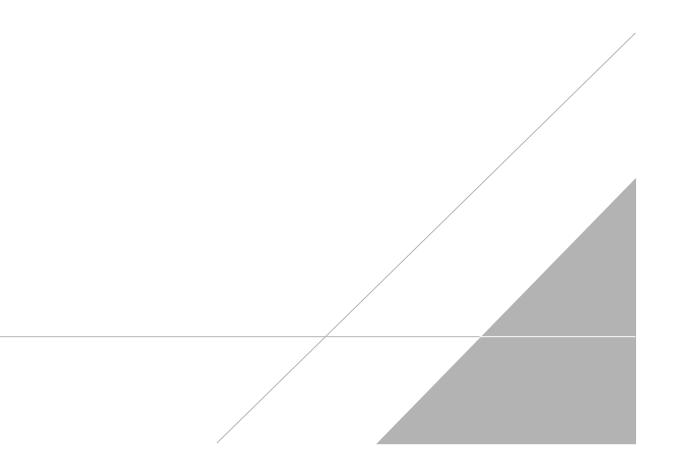
VALIDATION PERFORMED BY:	Bindu Sree M B
SIGNATURE:	BASHMB
DATE:	September 19, 2023

PEER REVIEW: Andrew Korycinski

DATE: September 20, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



)-le/1	0-5	Chain
)-le/1	0-5	Chain

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Chain of Custody Record



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

Client Contact	Regula	tory program	:	ł.	DW		N	PDES		T.	RCI	RA		Oth	ter [
Company Name: Arcadis					_								_		1										TestAmerica Laboratories,
Address: 28550 Cabot Drive, Suite 500	Client Project	Manager: Kris	Hinske	y			Site C	ontact	: Chr	ristina	a We	aver				Lab (Conta	et: Mil	e Del	Monie	0				COC No:
	Telephone: 24	8-994-2240					Telep	hone: 2	148-9	94-22	240				-	Telep	phone:	330-4	97-93	96					
City/State/Zip: Novi, MI, 48377				_								-													1 of 1 COCs
Phone; 248-994-2240	Email: kristof	Ter.hinskey@ar	cadis.c	0111			A	nalysis	1001	Barou	and 1	Ime	-		h			-	A	naly	es				For lab use only
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Client Sample ID: TRIP BLANK_106

Date Collected: 08/16/23 00:00

Date Received: 08/18/23 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/28/23 15:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/28/23 15:35	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/28/23 15:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/28/23 15:35	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/28/23 15:35	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/28/23 15:35	1
Summersete	% Deceivers	Qualifian	Lingita				Droporod	Anolyzad	
Surrogate	%Recoverv	Quantier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery G	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110	62 - 137		08/28/23 15:35	1
4-Bromofluorobenzene (Surr)	89	56 - 136		08/28/23 15:35	1
Toluene-d8 (Surr)	100	78 - 122		08/28/23 15:35	1
Dibromofluoromethane (Surr)	103	73 - 120		08/28/23 15:35	1

Client Sample ID: MW-152S_081623 Date Collected: 08/16/23 16:00 Date Received: 08/18/23 08:00

Lab Sample ID: 240-190404-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/25/23 16:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		66 - 120					08/25/23 16:54	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/28/23 18:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/28/23 18:31	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/28/23 18:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/28/23 18:31	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/28/23 18:31	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/28/23 18:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137			-		08/28/23 18:31	1
4-Bromofluorobenzene (Surr)	89		56 - 136					08/28/23 18:31	1

4-Bromotiuorobenzene (Surr)	89	50 - 736	08/28/23 18:31	1
Toluene-d8 (Surr)	101	78 - 122	08/28/23 18:31	1
Dibromofluoromethane (Surr)	104	73 - 120	08/28/23 18:31	1

Matrix: Water

Lab Sample ID: 240-190404-1