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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 5/19/2023 3:29:02 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-185006-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

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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

Generated 5/19/2023 3:29:02 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-185006-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-185006-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

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)

Estimated Detection Limit (Dioxin) EDL 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

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

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5/19/2023

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Case Narrative

Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

Job ID: 240-185006-1

Job ID: 240-185006-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-185006-1

Receipt

The samples were received on 5/9/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.0° C, 2.8° C, 3.3° C and 4.3° C

GC/MS VOA

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

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Method Summary

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

Job ID: 240-185006-1

Method Method Description Protocol Laboration SW846 FFT

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

Protocol References:

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

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

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

Job ID: 240-185006-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-185006-1	TRIP BLANK_165	Water	05/04/23 00:00	05/09/23 10:30
240-185006-2	MW-207S_050423	Water	05/04/23 13:14	05/09/23 10:30

Detection Summary

Client: ARCADIS US Inc Job ID: 240-185006-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_165 Lab Sample ID: 240-185006-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-185006-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_165

Lab Sample ID: 240-185006-1 Date Collected: 05/04/23 00:00

Matrix: Water

Date Received: 05/09/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/16/23 00:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/16/23 00:11	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/16/23 00:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/16/23 00:11	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/16/23 00:11	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/16/23 00:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		70 - 128					05/16/23 00:11	1
Dibromofluoromethane (Surr)	117		77 - 124					05/16/23 00:11	1
Toluene-d8 (Surr)	106		80 - 120					05/16/23 00:11	1
4-Bromofluorobenzene	101		76 - 120					05/16/23 00:11	1

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-185006-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-207S_050423

Lab Sample ID: 240-185006-2 Date Collected: 05/04/23 13:14

Matrix: Water

Date Received: 05/09/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/17/23 13:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		75 - 133			_		05/17/23 13:05	1

Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/16/23 02:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/16/23 02:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/16/23 02:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/16/23 02:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/16/23 02:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/16/23 02:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		70 - 128			•		05/16/23 02:37	1
Dibromofluoromethane (Surr)	116		77 - 124					05/16/23 02:37	1
Toluene-d8 (Surr)	103		80 - 120					05/16/23 02:37	1
4-Bromofluorobenzene	96		76 - 120					05/16/23 02:37	1

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-185006-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rrogate Rec
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(70-128)	(77-124)	(80-120)	(76-120)
240-185006-1	TRIP BLANK_165	121	117	106	101
240-185006-2	MW-207S_050423	119	116	103	96
LCS 460-909279/3	Lab Control Sample	99	96	99	91
LCSD 460-909279/4	Lab Control Sample Dup	105	100	105	99
MB 460-909279/9	Method Blank	114	109	103	96

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

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB	
Lab Sample ID	Client Sample ID	(75-133)	
240-185006-2	MW-207S_050423	98	
LCS 460-909650/5	Lab Control Sample	94	
LCSD 460-909650/6	Lab Control Sample Dup	97	
MB 460-909650/9	Method Blank	96	

Surrogate Legend

BFB = 4-Bromofluorobenzene

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Client: ARCADIS US Inc Job ID: 240-185006-1 Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 460-909279/9

Matrix: Water

Analysis Batch: 909279

Client Sample ID: Method Blank

Prep Type: Total/NA

	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			05/15/23 21:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/15/23 21:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/15/23 21:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/15/23 21:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/15/23 21:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/15/23 21:44	1

MB	MB				
%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
114		70 - 128		05/15/23 21:44	1
109		77 - 124		05/15/23 21:44	1
103		80 - 120		05/15/23 21:44	1
96		76 - 120		05/15/23 21:44	1
	%Recovery 114 109 103	114 109 103	%Recovery Qualifier Limits 114 70 - 128 109 77 - 124 103 80 - 120	%Recovery Qualifier Limits Prepared 114 70 - 128 109 77 - 124 103 80 - 120	%Recovery Qualifier Limits Prepared Analyzed 114 70 - 128 05/15/23 21:44 109 77 - 124 05/15/23 21:44 103 80 - 120 05/15/23 21:44

Lab Sample ID: LCS 460-909279/3

Matrix: Water

Analysis Batch: 909279

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Opike	LUU	LUU				/BIXEC	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	15.5		ug/L		77	68 - 133	
cis-1,2-Dichloroethene	20.0	17.1		ug/L		86	78 - 121	
Tetrachloroethene	20.0	19.5		ug/L		98	70 - 127	
trans-1,2-Dichloroethene	20.0	17.0		ug/L		85	74 - 126	
Trichloroethene	20.0	17.7		ug/L		88	71 - 121	
Vinyl chloride	20.0	16.2		ug/L		81	55 - 144	

	203	203	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 128
Dibromofluoromethane (Surr)	96		77 - 124
Toluene-d8 (Surr)	99		80 - 120
4-Bromofluorobenzene	91		76 - 120

Lab Sample ID: LCSD 460-909279/4

Matrix: Water

Analysis Batch: 909279

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

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	20.0	16.7		ug/L		83	68 - 133	8	30
cis-1,2-Dichloroethene	20.0	17.5		ug/L		88	78 - 121	2	30
Tetrachloroethene	20.0	20.4		ug/L		102	70 - 127	4	30
trans-1,2-Dichloroethene	20.0	18.0		ug/L		90	74 - 126	5	30
Trichloroethene	20.0	18.2		ug/L		91	71 - 121	3	30
Vinyl chloride	20.0	16.9		ug/L		85	55 - 144	4	30

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 128
Dibromofluoromethane (Surr)	100		77 - 124
Toluene-d8 (Surr)	105		80 - 120

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Job ID: 240-185006-1

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

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

Lab Sample ID: LCSD 460-909279/4 **Matrix: Water**

Analysis Batch: 909279

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

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 76 - 120

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

Lab Sample ID: MB 460-909650/9 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 909650

MB MB Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 2.0 1,4-Dioxane 2.0 U 0.86 ug/L 05/17/23 08:57

MB MB

Surrogate %Recovery Qualifier Limits Dil Fac Prepared Analyzed 4-Bromofluorobenzene 96 75 - 133 05/17/23 08:57

Lab Sample ID: LCS 460-909650/5 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 909650

Spike LCS LCS %Rec Analyte Added Result Qualifier Limits Unit D %Rec 1,4-Dioxane 5.00 4.96 57 - 124 ug/L

LCS LCS

Surrogate %Recovery Qualifier Limits

4-Bromofluorobenzene 94 75 - 133

Lab Sample ID: LCSD 460-909650/6 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 909650

Spike LCSD LCSD %Rec RPD Analyte Added Qualifier Unit %Rec Limits RPD Limit Result 1,4-Dioxane 5.00 5.77 115 57 - 124 30 ug/L 15

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 97 75 - 133

Eurofins Cleveland

QC Association Summary

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

Job ID: 240-185006-1

GC/MS VOA

Analysis Batch: 909279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185006-1	TRIP BLANK_165	Total/NA	Water	8260D	
240-185006-2	MW-207S_050423	Total/NA	Water	8260D	
MB 460-909279/9	Method Blank	Total/NA	Water	8260D	
LCS 460-909279/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-909279/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 909650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep	Batch
240-185006-2	MW-207S_050423	Total/NA	Water	8260D SIM	
MB 460-909650/9	Method Blank	Total/NA	Water	8260D SIM	
LCS 460-909650/5	Lab Control Sample	Total/NA	Water	8260D SIM	
LCSD 460-909650/6	Lab Control Sample Dup	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-185006-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_165

Lab Sample ID: 240-185006-1 Date Collected: 05/04/23 00:00

Matrix: Water

Date Received: 05/09/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D	_	1	909279	SZD	EET EDI	05/16/23 00:11

Client Sample ID: MW-207S_050423 Lab Sample ID: 240-185006-2

Date Collected: 05/04/23 13:14 Matrix: Water

Date Received: 05/09/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	909279	SZD	EET EDI	05/16/23 02:37
Total/NA	Analysis	8260D SIM		1	909650	SZD	EET EDI	05/17/23 13:05

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

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

Job ID: 240-185006-1

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	01-30-24
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-01-24
Georgia	State	12028 (NJ)	06-30-23
Massachusetts	State	M-NJ312	06-30-23
New Jersey	NELAP	12028	06-30-23
New York	NELAP	11452	04-01-24
Pennsylvania	NELAP	68-00522	03-01-24
Rhode Island	State	LAO00376	12-30-23
USDA	US Federal Programs	P330-20-00244	11-03-23

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MICHIGAN 190	Chai TestAmerica Laboratory Jocation: Brighton 10448 Cite	Chain of Custody Record 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	-229-2763	TestAmerica THE LEADER IN ENVIRONMENTAL TESTING
Client Contact	les.	NPDES RCRA Other	Je .	
Company Name: Arcadis Address: 3850 Cobot Drive Suite SIII	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	TestAmerica Laboratories, Inc. COC No:
Address, 2020 Catol Dive, Suit 300 Can/Cone/Pin Mac 381 40277	Telephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	
Chylstaterap. 3001, 191, 4037.	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	For lab use only
Project Name: Ford LTP Off-Site	Sampler Name: Left Cara	TAT if different from below 10 day 2 weeks		Walk-in client
Project Number: 30167538.402.04	Method of Shipment/Carrier:	1 week	8	Lao sampling
PO # 30167538.402.04	Shipping/Tracking No:	/ <u>/</u> /) ə](8560E E 8560	Job/SDG No:
	Matrix	Containers & Preservativ	ioxsue 85 35608 5-1,2-DCE 5-DCE 85	Sample Specific Notes
Sample Identification	Sample Date Sample Time At Aduent Solid		cis-1; Trans PCE 8 Trans	Special Instructions:
TRIP BLANK_ $\{ \wp \}$	1 82/20/20	1 N	× × × × × ×	1 Trip Blank
MW-2075-050423	9 M/El cz/no/so	9	X X X X X X X X X X X X X X X X X X X	3 VOAs for 8260B 3 VOAs for 8260B SIM
		240-1	240-185006 Chain of Custody	
Possible Hazard Identification Non-Hazard Flammable Skin	Skin Irritant Poison B Unknown	Sample Disposal (A fee may be assessed if sam	Sample Disposal (A fee may be assessed if samples are retained longer than I month) Return to Cilent P. Disposal By Lab Archive For Months	
Special Instructions/QC Requirements & Comments: Sample Address: 12125 STRRX Submit all results through Cadena at Jiomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.				
Relinguished by: Temelin	The Date Party	Movi !	old Stoney Company.	Date/Ime; 04/12 (C:3
Relinquished by:	Date/lime	1050 Received by:	Company:	Date/Timp 650
Relinquished by:	Company, Date Time:	1 3 50 Received in Laboratory by:	Smith Company	3

TVENT -	
Eurofins - Canton Sample Receipt Form/Narrative Barberton Facility Login #: 15500	
Client ACCAUS Site Name Cooler unpacked by:	
Cooler Received on 05-09-23 Opened on 05-09-23 Leah M. Amil	九
FedEx: 1st Grd (Exp. UPS FAS Clipper Client Drop Off Eurofins Courier Other	
Receipt After-hours: Drop-off Date/Time Storage Location	
Eurofins Cooler # E C Foam Box Client Cooler Box Other	
Packing material used: Bubble Wrap Foam Plastic Bag None Other COOLANT: Wet Ice Blue Ice Dry Ice Water None	
1. Cooler temperature upon receipt See Multiple Cooler Form	
IR GUN # (CF + U_1 °C) Observed Cooler Temp °C Corrected Cooler Temp	°C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity -Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? 3. Shippers' packing slip attached to the cooler(s)? 4. Did custody papers accompany the sample(s)? 5. Were the custody papers relinquished & signed in the appropriate place? 6. Was/were the person(s) who collected the samples clearly identified on the COC? 7. Did all bottles arrive in good condition (Unbroken)? 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? 9. For each sample, does the COC specify preservatives (V/N), # of containers (Y/N), and sample type of grab/comp(V/N). 10. Were correct bottle(s) used for the test(s) indicated? 11. Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC? If yes, Questions 13-17 have been checked at the originating laboratory. 13. Were all preserved sample(s) at the correct pH upon receipt? 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 # 62 1 2 Yes No Yes No NA Tests that are checked of the checked for pReceiving: VOAs Oil and Great TOC Test Shat are checked for pReceiving: VOAs Oil and Great TOC Yes No Yes No No No No PH Strip Lot# HC Yes No No No NA PH Strip Lot# HC Yes No No NA Yes No NA PH Strip Lot# HC Yes No No NA NA Yes No NA Yes No NA Yes No NA Yes No NA NA PH Strip Lot# HC Yes No No NA NA NA NA NA NA NA NA	se se
17. Was a LL Hg or Me Hg trip blank present? Yes No	
Contacted PM by via Verbal Voice Mail Other	
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	
19. SAMPLE CONDITION	
Sample(s) were received after the recommended holding time had expired.	
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) were further preserved in the laborator	ry.
Sample(s) were further preserved in the laborator	
VOA Sample Preservation - Date/Time VOAs Frozen:	

Login #: 185006

	. —		Sample Receipt Mu	ultiple Cooler Form	
Cooler Des		IR Gun #	Observed	Corrected	Coolant
(Circl	9)	(Circle)	Temp °C	Temp °C	(Circle) Wet Ice Blue Ice Dry Ice
(EC) Client B	ox Other	IR GUN #:	2.7	7.8	Water None
EC Client 8	ox Other	IR GUN #:	3.2	3.3	Water None
CC Client 8	ox Other	IR GUN #:	1.9	2.0	Wet ice Blue ice Dry ice
(EC) Client B	ox Other	IR GUN #:	4.2	4.3	Wet Ice Blue Ice Dry Ice Water None
EC Client B	ox Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client B	ox Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client B	ox Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client 8	ox Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client 8	ox Other	IR GUN #:	ne <u>an page in</u> e e e di l'Indonée e e e e e e e e e e e e e e e e e e		Wet ice Blue ice Dry ice Water None
EC Client 8	ox Other	IR GUN #:			Wet ice Blue ice Dry Ice Water None
	ox Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
	ox Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client B	ox Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
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EC Client 8	ox Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client 8	ox Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
				☐ See Tem	perature Excursion Form

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

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Eurofins Cleveland

Environment Testing

💸 eurofins

Chain of Custody Record

180 S. Van Buren Avenue Barberton, OH 44203 Phone: 330-497-9396 Fax: 330-497-0772

	Sampler:			Lab PM:	JM:				Carrier Tra	Carrier Tracking No(s):		COC No:	
Client Information (Sub Contract Lab)	i			Del	DelMonico, Michael	ichael						240-167888.1	
Client Confact: Shipping/Receiving	Phone:			E-Mail: Micha	E-Mail: Michael.DelMonico@et.eurofinsus.com	onico@e	t.eurofin	sus.com	State of Origin: Michigan	nigin: n		Page: Page 1 of 1	
Company: Eurofins Environment Testing Northeast,					Accreditations Required (See note):	ons Requir	od (See no	ote):				Job #: 240-185006-1	
Address: 777 New Durham Road,	Due Date Requested: 5/22/2023						₹	alysis F	Analysis Requested	_		Preservation Codes	Codes: M - Hexane
City: Edison State, Zip:	TAT Requested (days):	(B - NaOH C - Zn Acetate D - Nitric Acid	
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO#:					he						F - MeOH G - Amchlor	
Email:	WO #:				(on	ייסוג דו							
Project Name: Ford LTP - Off Site	Project #: 24015353				10 89	16) 500							w - pH 4-5 Y - Trizma Z - other (specify)
Site:	SSOW#:				A) as							Officer:	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample	Sample Type (C=comp,	(W=water, S=solid, O=waste/oil, BT=Tissue,	beidd Filtered Perform MSAN	3560D_SIM\5030						Cotal Number of	Special Instructions/Note
	X	V	Preserval	Preservation Code:	X							X	
TRIP BLANK_165 (240-185006-1)	5/4/23	Eastern		Water	Ê	×							
AW-207S_050423 (240-185006-2)	5/4/23	13:14 Fastern		Water	Ê	×						9	
												3070	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratory or other instructions will be provided. Any changes to laboratory accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC.	nent Testing North Central above for analysis/tests/rr Central, LLC attention imm	LLC places and the state of the	the ownership nalyzed, the s.	of method, ar amples must b ccreditations a	nalyte & accr e shipped be re current to	editation c ack to the	ompliance Eurofins Er The signe	upon our su vironment	bcontract labor esting North C Custody attestii	atories. This entral, LLC k	sample shipr aboratory or o	ment is forwarded un other instructions will curofins Environment	the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the nalyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.
Possible Hazard Identification					Samp	le Dispe	A) Jesc	fee may t	e assessec	if sample	s are reta	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	n 1 month)
Unconfirmed						Return	Return To Client		Disposal By Lab	By Lab	Ā	Archive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	ile Rank: 2			Speci	al Instru	ctions/Q	Special Instructions/QC Requirements:	ments:				
Empty Kir Relinquished by:		Date:			Time:				Meth	Method of Shipment:	ent:		,
	SECOICE DESTRUCTION OF SECOND	5	V	Company Company	Z R	Received by:		7	Felle		11/12	3 1030	Company
Reingausthed by:	Date/Time:	•		Company	æ.	Received by:		•		Date/Time	Time:		Company
Belinquished by:	Date/Time:		_	Company	ŭ	Received by:				Date/	Date/Time:		Company
Custody Seals Infact: Custody Seal No.:	S				ŏ	ooler Temp	erature(s)	Cooler Temperature(s) °C and Other Remarks:	r Remarks:	2.	. 7.	2.7/2.	PL TRA

Login Sample Receipt Checklist

Client: ARCADIS US Inc Job Number: 240-185006-1

List Source: Eurofins Edison
List Number: 2
List Creation: 05/11/23 01:12 PM

Creator: Armbruster, Chris

Creator: Armbruster, Chris		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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DATA VERIFICATION REPORT



May 23, 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: 185006-1 Sample date: 2023-05-04

Report received by CADENA: 2023-05-23

Initial Data Verification completed by CADENA: 2023-05-23

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, LCS/LCD RPD, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA 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: 185006-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401850 5/4/202	0061	5		MW-207 2401850 5/4/202	0062	23	
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>0D</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	
OSW-8260	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-185006-1

CADENA Verification Report: 2023-05-23

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49922R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-185006-1 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 Collection		Ana	lysis	
Sample ID	Lab ID	Lab ID Matrix Date		Parent Sample	voc	VOC SIM	
TRIP BLANK_165	240-185006-1	Water	05/04/23		Х		
MW-207S_050423	240-185006-2	Water	05/04/23		X	X	

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance ptable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
2. Requested analyses and sample results		X		X	
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	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
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 calibrations were within the specified control limits.

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance eptable	Not
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation					-
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
lon abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		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: Dilip Kumar

SIGNATURE:

DATE: June 16, 2023

PEER REVIEW: Andrew Korycinski

DATE: June 19, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190

Chain of Custody Record

<u>TestAmerica</u>

Client Contact	- "	ory program:		,	DW			PDES		RC			her									
ompany Name: Arcadis	Client Project N	lanager: Kris	Hinskey			Si	te Co	ntact:	Christ	ina We	aver			Lab	Contac	t: Mik	e Del	Monic			TestAmerica Laboratories,	
Address: 28550 Cabot Drive, Suite 500														Lab Contact: Mike DelMonico								
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240				- 11	eleph	one: 2	48-994	-2240				Telephone: 330-497-9396				96		1 of 1 COCs		
	Email: kristoff	er.hinskey@ar	cadis.co	m			An	alysis	Turnar	round 1	ime			Analyses						For lab use only		
Phone: 248-994-2240	Sampler Name					T/	AT if a	idierent	from belo	.w		4									Walk-in client	
Project Name: Ford LTP Off-Site	Leno	Lencia terreta 10 day 2 weeks																				
Project Number: 30167538.402.04	Method of Ship						10 c	lay		week			,						5		Lab sampling	
12 11 20 1 20 1 10 2 0 1 1 1 1 1 1 1 1 1						_			F 2			N H		m	82608			90	NIS 8			
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				Mai	trix		Co	ontaine	rs & Pr	eservat	ves		~	S S	PC-	98	<u>g</u>	oride	9 8			
			;	e e	i .	. 2			_	S		red in	ä	2-D	5-1,2	8260	8260B	Chlc	ioxa		Sample Specific Notes /	
Sample Identification	Sample Date	Sample Time	Air	Sedim	Solid	H2SO4	HN03	ΕĞ	NaOH	Unpres	Other:	Filtered Sa	1,1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE	PCE 8260B	TCE	Vinyl Chloride	1,4-Dioxane		Special Instructions:	
	p 2/04/-							_				1							4-			
TRIP BLANK_ (6)	05/04/23			<u>'</u>			\perp	1				NC	3 X	X	X	Х	Х	Х			1 Trip Blank	
MW-2075-050423	05/04/23	1314		6				16				ME	X	X	X	X	K.	火	\times		3 VOAs for 8260B	
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Non-Hazard Flammable Skin	Irritant Poise	пВ Г	Unkno	wn			1	Retu	m to C	lient	₩.	Disposal !	By Lab	pies ar	A	rchive	For	nan t	Months			
pecial Instructions/QC Requirements & Comments:																						
Sample Address: 12 125 STARK Submit all results through Cadena at jtomalia@cade	naco.com. Cadena #	E203631																				
evel IV Reporting requested.																						
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Eurofins Cleveland

180 S. Van Buren Avenue Barberton, OH 44203

Chain of Custody Record



eurofins

Environment Testing

Phone: 330-497-9396 Fax: 330-497-0772														2								
Client Information (Sub Contract Lab)	Sampler:				b PM: elMo		, Micl	hael					Carrie	r Tracki	ng No(s):			OC No: 40-167888.1			
Client Contact: Shipping/Receiving	Phone:										us.con		State Mich	of Origir igan	1:			P	age: Page 1 of 1			
Company: Eurofins Environment Testing Northeast,					Ad	ccredi	tations	s Requ	ired (S	ee note):								ob #: 40-185006-1			
Address: 777 New Durham Road,	Due Date Request	ed:								Ana	lysis	Rea	ues	ted				- 1	reservation Co	des: M - Hexa	ane	
City: Edison State, Zip:	TAT Requested (d	ays):																E	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid	N - None O - AsNa P - Na20	aO2 O4S	
NJ, 08817 Phone:	DO #			-															- NaHSO4 - MeOH	Q - Na29	S2O3	
732-549-3900(Tel) 732-549-3679(Fax)	PO #:				9		is i											H	G - Amchlor H - Ascorbic Acid	S - H2S0 T - TSP U - Acet	Dodecahy	drate
Email:	WO #:				80.	Ş	hou											10 J	- Ice I - DI Water	V - MCA W - pH 4	VA	
Project Name: Ford LTP - Off Site	Project #: 24015353				e (Ye	i o	500												C - EDTA L - EDA	Y - Trizm		
Site:	SSOW#:					SD (Y	Š										100	0 0	ther:		(-1)/	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Watrix (W=water, S=solid, O=waste/oi BT=Tissue A=Air)	Field Filters	Perform MSMIS	8260D/5030C (MOD) VOCs (Short List)	8260D_SIM/5030C										Total Number o	Special Ir	ıstructic	ons/Note):
		<u> </u>	Preservati			YX		200	920			.767				1039	12	X_			1000	SHARING STATE
PTRIP BLANK_165 (240-185006-1)	5/4/23	Eastern 13:14		Water	_	1	X		_	_				\perp	_			1				
MW-207S_050423 (240-185006-2)	5/4/23	Eastern		Water	4		X	X	_		_				\perp			6				
<u> </u>					\perp	L																
					\perp									\perp								
																	8					
Note: Since laboratory accreditations are subject to change, Eurofins Environme laboratory does not currently maintain accreditation in the State of Origin listed a accreditation status should be brought to Eurofins Environment Testing North Co	bove for analysis/test	s/matrix being	analyzed, the sa	moles mus	st be s	hippe	d back	k to the	Fumfi	ins Env	imnmer	t Testi	na Nor	h Centr	al IIC	laborator	ח חר ח	ther i	netructions will be	provided	Any chang	200 10
Possible Hazard Identification						Sa					e may	$\overline{}$				les are	_		d longer than		-	
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank:	2			Sp		lnstru			Requi			al By	Lab		- Ar	rchiv	e For	Mor	nths	
Empty Kit Relinquished by:		Date:			Ιτ	ime:								Method	of Shipr	nent:						
Relinquisited by:	Date/Time:		19	ompany			Rece	eived b	y:			-	_		Date		100	_	1000	Compan	ıy _/	1
Relinquished by:	Date/Time:	2 7		ompany	TO	X	Rece	eived b	y:		V,	a F	ELA	*	-	//Time:	16.	<u>ر</u>	1030	Compan		
Belinquished by:	Date/Time:			ompany				eived b	-							/Time:						
Ū																				Compan		
Custody Seals Intact: Custody Seal No.:	(5						Cool	er Tem	peratu	re(s) °C	and O	her Re	marks:	1.	4/	1.4		2.	7/2.7	6	IP	7











Client Sample Results

Client: ARCADIS US Inc Job ID: 240-185006-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_165

Lab Sample ID: 240-185006-1 Date Collected: 05/04/23 00:00

Matrix: Water

Date Received: 05/09/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/16/23 00:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/16/23 00:11	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/16/23 00:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/16/23 00:11	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/16/23 00:11	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/16/23 00:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		70 - 128					05/16/23 00:11	1
Dibromofluoromethane (Surr)	117		77 - 124					05/16/23 00:11	1
Toluene-d8 (Surr)	106		80 - 120					05/16/23 00:11	1
4-Bromofluorobenzene	101		76 - 120					05/16/23 00:11	1

Eurofins Cleveland

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-185006-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-207S_050423

Lab Sample ID: 240-185006-2 Date Collected: 05/04/23 13:14

Matrix: Water

Date Received: 05/09/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/17/23 13:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		75 - 133			_		05/17/23 13:05	1

Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/16/23 02:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/16/23 02:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/16/23 02:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/16/23 02:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/16/23 02:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/16/23 02:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		70 - 128					05/16/23 02:37	1
Dibromofluoromethane (Surr)	116		77 - 124					05/16/23 02:37	1
Toluene-d8 (Surr)	103		80 - 120					05/16/23 02:37	1
4-Bromofluorobenzene	96		76 - 120					05/16/23 02:37	1