PREPARED FOR

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

Generated 8/16/2023 4:59:55 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-189667-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

See page two for job notes and contact information.

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Job Notes

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Authorization

Generated 8/16/2023 4:59:55 AM

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

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-189667-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-189667-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description** Result exceeded calibration range.

U Indicates the analyte was analyzed for but not detected.

Glossary

CNF

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

Contains No Free Liquid

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCI MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML 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) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

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Case Narrative

Client: ARCADIS US Inc

Job ID: 240-189667-1

Project/Site: Ford LTP - Off Site

Job ID: 240-189667-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-189667-1

Receipt

The samples were received on 8/5/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

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 Job ID: 240-189667-1 Project/Site: Ford LTP - Off Site

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

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

Job ID: 240-189667-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-189667-1	TRIP BLANK_135	Water	08/03/23 00:00	08/05/23 08:00
240-189667-2	MW-82D_080323	Water	08/03/23 14:20	08/05/23 08:00
240-189667-3	MW-82SR_080323	Water	08/03/23 15:15	08/05/23 08:00

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Detection Summary

Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

Job ID: 240-189667-1

Client Sample ID: TRIP BLANK_135

No Detections.

Client Sample ID: MW-82D_080323

Lab Sample ID: 240-189667-2

No Detections.

No Detections.

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Client: ARCADIS US Inc Job ID: 240-189667-1

Project/Site: Ford LTP - Off Site

Date Received: 08/05/23 08:00

Client Sample ID: TRIP BLANK_135

Lab Sample ID: 240-189667-1 Date Collected: 08/03/23 00:00

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 08/11/23 17:13 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 08/11/23 17:13 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 08/11/23 17:13 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 08/11/23 17:13 Trichloroethene 1.0 U 1.0 0.44 ug/L 08/11/23 17:13 Vinyl chloride 0.45 ug/L 1.0 U 1.0 08/11/23 17:13 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 97 62 - 137 08/11/23 17:13 4-Bromofluorobenzene (Surr) 91 08/11/23 17:13 56 - 136 97 78 - 122 08/11/23 17:13 Toluene-d8 (Surr) Dibromofluoromethane (Surr) 106 73 - 120 08/11/23 17:13

Client: ARCADIS US Inc Job ID: 240-189667-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-82D_080323

Lab Sample ID: 240-189667-2 Date Collected: 08/03/23 14:20

Matrix: Water

08/11/23 17:37

Date Received: 08/05/23 08:00

Dibromofluoromethane (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/09/23 14:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		66 - 120			_		08/09/23 14:56	1

1,1-Dichloroethene	1.0	U	1.0	0.49 ug/L		08/11/23 17:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46 ug/L		08/11/23 17:37	1
Tetrachloroethene	1.0	U	1.0	0.44 ug/L		08/11/23 17:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51 ug/L		08/11/23 17:37	1
Trichloroethene	1.0	U	1.0	0.44 ug/L		08/11/23 17:37	1
Vinyl chloride	1.0	U	1.0	0.45 ug/L		08/11/23 17:37	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137			08/11/23 17:37	1
4-Bromofluorobenzene (Surr)	93		56 ₋ 136			08/11/23 17:37	1
Toluene-d8 (Surr)	95		78 - 122			08/11/23 17:37	1

73 - 120

Client: ARCADIS US Inc Job ID: 240-189667-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-82SR_080323

Lab Sample ID: 240-189667-3 Date Collected: 08/03/23 15:15

Matrix: Water

Date Received: 08/05/23 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/09/23 15:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		66 - 120			-		08/09/23 15:20	1
	•	-							
	•	ounds by G Qualifier	C/MS	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	•	Qualifier			Unit ug/L	<u>D</u> .	Prepared	Analyzed 08/11/23 18:00	Dil Fac
Analyte 1,1-Dichloroethene	Result	Qualifier U	RL	0.49		<u> </u>	Prepared		Dil Fac 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0	Qualifier U U	RL	0.49 0.46	ug/L	<u>D</u> -	Prepared	08/11/23 18:00	Dil Fac 1 1 1
Method: SW846 8260D - Volation Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene	Result 1.0 1.0	Qualifier U U U	1.0 1.0	0.49 0.46 0.44	ug/L ug/L	<u> </u>	Prepared	08/11/23 18:00 08/11/23 18:00	Dil Fac 1 1 1 1

Vinyl chloride	1.0 U	1.0	0.45 ug/L		08/11/23 18:00	1
Surrogate	%Recovery Qua	alifier Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101	62 - 137			08/11/23 18:00	1
4-Bromofluorobenzene (Surr)	93	56 ₋ 136			08/11/23 18:00	1
Toluene-d8 (Surr)	96	78 - 122			08/11/23 18:00	1
Dibromofluoromethane (Surr)	103	73 - 120			08/11/23 18:00	1

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-189667-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-189667-1	TRIP BLANK_135	97	91	97	106
240-189667-2	MW-82D_080323	99	93	95	106
240-189667-3	MW-82SR_080323	101	93	96	103
240-189676-B-14 MS	Matrix Spike	94	93	96	104
240-189676-B-14 MSD	Matrix Spike Duplicate	94	91	96	102
LCS 240-583649/5	Lab Control Sample	102	97	95	103
MB 240-583649/8	Method Blank	107	103	99	105

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(66-120)	
240-189667-2	MW-82D_080323	92	
240-189667-3	MW-82SR_080323	94	
LCS 240-583359/5	Lab Control Sample	97	
MB 240-583359/7	Method Blank	93	

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

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Job ID: 240-189667-1

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

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

Lab Sample ID: MB 240-583649/8

Matrix: Water

Analysis Batch: 583649

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

MB MB Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 08/11/23 13:43 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 08/11/23 13:43 1.0 U 08/11/23 13:43 Tetrachloroethene 1.0 0.44 ug/L trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 08/11/23 13:43 Trichloroethene 1.0 U 1.0 0.44 ug/L 08/11/23 13:43 Vinyl chloride 1.0 U 1.0 08/11/23 13:43 0.45 ug/L

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137		08/11/23 13:43	1
4-Bromofluorobenzene (Surr)	103		56 - 136		08/11/23 13:43	1
Toluene-d8 (Surr)	99		78 - 122		08/11/23 13:43	1
Dibromofluoromethane (Surr)	105		73 - 120		08/11/23 13:43	1

Lab Sample ID: LCS 240-583649/5

Matrix: Water

Analysis Batch: 583649

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 106 63 - 134 1,1-Dichloroethene 25.0 26.6 ug/L cis-1,2-Dichloroethene 25.0 24.2 ug/L 97 77 - 123 Tetrachloroethene 25.0 24.4 ug/L 97 76 - 123 75 - 124 trans-1,2-Dichloroethene 25.0 24.2 97 ug/L Trichloroethene 25.0 25.6 102 ug/L 70 - 122 Vinyl chloride 12.5 10.7 ug/L 86 60 - 144

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		62 - 137
4-Bromofluorobenzene (Surr)	97		56 - 136
Toluene-d8 (Surr)	95		78 - 122
Dibromofluoromethane (Surr)	103		73 - 120

Lab Sample ID: 240-189676-B-14 MS

Matrix: Water

Analysis Batch: 583649

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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20	U	500	497		ug/L		99	56 - 135	
cis-1,2-Dichloroethene	310		500	738		ug/L		86	66 - 128	
Tetrachloroethene	16	J	500	487		ug/L		94	62 _ 131	
trans-1,2-Dichloroethene	20	U	500	447		ug/L		89	56 - 136	
Trichloroethene	920		500	1290	E	ug/L		74	61 - 124	
Vinyl chloride	26		250	260		ug/L		93	43 - 157	

MS MS

Surrogate	%Recovery Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94	62 - 137
4-Bromofluorobenzene (Surr)	93	56 - 136
Toluene-d8 (Surr)	96	78 - 122

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Client: ARCADIS US Inc Job ID: 240-189667-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water

Analysis Batch: 583649

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

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 104 73 - 120

Lab Sample ID: 240-189676-B-14 MSD

Lab Sample ID: 240-189676-B-14 MS

Matrix: Water

Analysis Batch: 583649

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

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	20	U	500	481		ug/L		96	56 - 135	3	26
cis-1,2-Dichloroethene	310		500	727		ug/L		84	66 - 128	1	14
Tetrachloroethene	16	J	500	496		ug/L		96	62 - 131	2	20
trans-1,2-Dichloroethene	20	U	500	455		ug/L		91	56 - 136	2	15
Trichloroethene	920		500	1340	E	ug/L		84	61 - 124	4	15
Vinyl chloride	26		250	273		ug/L		99	43 - 157	5	24

MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	91		56 - 136
Toluene-d8 (Surr)	96		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

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

Lab Sample ID: MB 240-583359/7

Matrix: Water

Analysis Batch: 583359

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 08/09/23 12:31 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 93 66 - 120 08/09/23 12:31

Lab Sample ID: LCS 240-583359/5

Matrix: Water

Analysis Batch: 583359

•	Spike	LCS LCS	LCS			%Rec	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	
1.4-Dioxane	10.0	10.1	ua/l		101	80 122	

LCS LCS

%Recovery Qualifier Surrogate Limits 66 - 120 1,2-Dichloroethane-d4 (Surr) 97

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QC Association Summary

Client: ARCADIS US Inc Job ID: 240-189667-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 583359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189667-2	MW-82D_080323	Total/NA	Water	8260D SIM	
240-189667-3	MW-82SR_080323	Total/NA	Water	8260D SIM	
MB 240-583359/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-583359/5	Lab Control Sample	Total/NA	Water	8260D SIM	

Analysis Batch: 583649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189667-1	TRIP BLANK_135	Total/NA	Water	8260D	
240-189667-2	MW-82D_080323	Total/NA	Water	8260D	
240-189667-3	MW-82SR_080323	Total/NA	Water	8260D	
MB 240-583649/8	Method Blank	Total/NA	Water	8260D	
LCS 240-583649/5	Lab Control Sample	Total/NA	Water	8260D	
240-189676-B-14 MS	Matrix Spike	Total/NA	Water	8260D	
240-189676-B-14 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-189667-1

Project/Site: Ford LTP - Off Site

Date Received: 08/05/23 08:00

Client Sample ID: TRIP BLANK_135

Lab Sample ID: 240-189667-1 Date Collected: 08/03/23 00:00

Matrix: Water

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed 8260D EET CLE 08/11/23 17:13 Total/NA Analysis 583649 LEE

Client Sample ID: MW-82D_080323 Lab Sample ID: 240-189667-2

Date Collected: 08/03/23 14:20 **Matrix: Water**

Date Received: 08/05/23 08:00

Batch Batch Dilution Batch Prepared Prep Type Method Run Factor Number Analyst or Analyzed Туре Lab Total/NA 8260D LEE EET CLE 08/11/23 17:37 Analysis 583649 Total/NA 8260D SIM 583359 MRL 08/09/23 14:56 Analysis 1 **EET CLE**

Client Sample ID: MW-82SR_080323 Lab Sample ID: 240-189667-3

Date Collected: 08/03/23 15:15 **Matrix: Water**

Date Received: 08/05/23 08:00

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** or Analyzed Lab 08/11/23 18:00 Total/NA 8260D LEE Analysis 583649 **EET CLE** 8260D SIM 583359 MRL 08/09/23 15:20 Total/NA Analysis EET CLE 1

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 240-189667-1

Laboratory: Eurofine Clovelar

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	T104704517-22-17	08-31-23	
Virginia	NELAP	460175	09-14-23	
West Virginia DEP	State	210	12-31-23	

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

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8/16/2023

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E C Clark Comple Design	AT	1 # 12000
Eurofins - Cleveland Sample Receipt For Barberton Facility	orm/Narrative	Login # : 18966 /
Client Arcodis	Site Name	Cooler unpacked by:
Cooler Received on 8-5-23	Opened on 8 - 5 - 2 - 3	Matt
	per Client Drop Off Eurofins Cour	rier Other
Receipt After-hours: Drop-off Date/Time	Storage Lo	
Eurofins Cooler # \(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Packing material used: Bubble Wrap COOLANT: Wet Ice Blue Ic Cooler temperature upon receipt IR GUN # 22 (CFO)	ce Dry Ice Water None	Cooler Form **Cooler Form C Corrected Cooler Temp (), 3 °C
 Were tamper/custody seals on the outside -Were the seals on the outside of the co-Were tamper/custody seals on the bott -Were tamper/custody seals intact and 3. Shippers' packing slip attached to the cood. Did custody papers accompany the samples. Were the custody papers relinquished & seals. Was/were the person(s) who collected the 7. Did all bottles arrive in good condition (US). Could all bottle labels (ID/Date/Time) be 9. For each sample, does the COC specify per 10. Were correct bottle(s) used for the test(s) 11. Sufficient quantity received to perform in 12. Are these work share samples and all listed If yes, Questions 13-17 have been checked 13. Were all preserved sample(s) at the correct 14. Were VOAs on the COC? Were air bubbles >6 mm in any VOA via 16. Was a VOA trip blank present in the cool 17. Was a LL Hg or Me Hg trip blank present 	poler(s) signed & dated? poler(s) or bottle kits (LLHg/MeHg)? puncompromised? pler(s)? pe(s)? preserved in the appropriate place? preserved with the COC? preservative (YN), # of containers (YN) preserved indicated? preserved indicated indicated? preserved indicated indicated indicated? preserved indicated	Yes No HC312502 Yes No Yes
Contacted PM Date	byvia \	Verbal Voice Mail Other
Concerning		
18. CHAIN OF CUSTODY & SAMPLE D	ISCREPANCIES	t page Samples processed by:
10 SAMPLE CONDUCTION		
19. SAMPLE CONDITION Sample(s)	were received after the recommend	led holding time had expired
Sample(s)	were received after the recommend	received in a broken container.
Sample(s)		
20. SAMPLE PRESERVATION		-
Sample(s)		were further preserved in the laboratory.
Sample(s) Preservative(s	s) added/Lot number(s):	
VOA Sample Preservation - Date/Time VOA		

Login Sample Receipt Checklist

Client: ARCADIS US Inc Job Number: 240-189667-1

Login Number: 189667 List Source: Eurofins Cleveland

List Number: 1 Creator: Loar, Malissa

Question Answer Comment

Radioactivity wasn't checked or is </= background as measured by a survey

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or

tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate

HTs)

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any requested

MS/MSDs

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Multiphasic samples are not present.

Samples do not require splitting or compositing.

Residual Chlorine Checked.

DATA VERIFICATION REPORT



August 17, 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: 189667-1 Sample date: 2023-08-03

Report received by CADENA: 2023-08-16

Initial Data Verification completed by CADENA: 2023-08-17

Number of Samples:3

Sample Matrices: Water and trip blank

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.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

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: 189667-1

		Sample Name:	TRIP BLA	NK_135	,		MW-821	D_08032	3		MW-829	SR_0803	23	
		Lab Sample ID:	2401896	671			2401896	6672			2401896	6673		
		Sample Date:	8/3/202	3			8/3/202	:3			8/3/202	3		
				Report		Valid		Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC														
OSW-8260	<u>OD</u>													
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		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		ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-189667-1

CADENA Verification Report: 2023-08-17

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 51099R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-189667-1 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	Parant Sample	Ana	lysis
Sample ID	Lab ID	Matrix	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_135	240-189667-1	Water	08/03/2023		Х	
MW-82D_080323	240-189667-2	Water	08/03/2023		X	X
MW-82SR_080323	240-189667-2	Water	08/03/2023		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Perfor Accep		Not Required	
	No	Yes	No	Yes	Required	
Sample receipt condition		Х		X		
2. Requested analyses and sample results		Х		Х		
Master tracking list		Х		Х		
4. Methods of analysis		X		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		X		
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 Methods 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.

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 VALIDATION CHECKLIST FOR VOCs

Rep	orted	Perfor Acce	Not Required	
No	Yes	No	Yes	Required
C/MS)				
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
Х				Х
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	No C/MS)	No Yes C/MS) X X X X X X X X X X X X X	No Yes No C/MS) X X X X X X X X X X X X X	No Yes No Yes

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Pruthvi Kumar C

SIGNATURE:

DATE: September 11, 2023

PEER REVIEW: Andrew Korycinski

DATE: September 12, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

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

Company Name: A	rcadis	Client Back	Managem Kala	l.Ri-o*				lo:	0		4 1 7						6 .							TestAmerica	Laboratories
Address: 28550 Ca	bot Drive, Suite 500	Chent Project	Manager: Kris	Hinsk	ey			Site	Cont	act: C	hristi	na W	eaver				Lab	Conta	t: Mil	e Del	Monic	0		COC No:	
City/State/Zip: No	vi, MI, 48377	Telephone: 248	1-994-2240					Tele	ephon	e: 248	-994-	2240					Tele	phone	330-4	97-93	96				500
Phone: 248-994-22		Email: kristoff	er.hinskey@ar	cadis.	com				Annly	ysis Tu	urnar	ound '	Time							A	nalys	es		1 of For lab use/only	
rnone: 248-994-224		Sampler Name	: /	11				TAT	r of diffi	crent fru	m belov	w		- 3										Walk-in client	Market St.
Project Name: For	d LTP Off-Site		Kent 1	La	SPI	-		L	i0 day			weeks weeks													- Sken
Project Number: 3	0167538.402.04	Method of Ship	ment/Carrier:		1			1	000	,	13	week		9	9			0				SIN		Lab sampling	Ohme
O # 30167538.402	2.04	Shipping/Track	ding No:					1				days day		mole (Y / N)	C/Grab-G		9	3260			8260D	00 8		Job/SDG No:	3
		-	1		N	atrix			Cont	lainers	& Pre	serval	tives	- Na	- 3	8260D	826	S. H.			de 8	8260D			
												T	T	a'S P	1	E 82	ä	1.2-	260D	8260D	hlori	xane			
	Sample Identification				Aqueous	Solid	Other	H2SO4	HNO3	HC	NAOH ZaAe	Umpres	Other:	Filtered	Comp	1.1-DCE	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8%	Vinyl Chloride	1,4-Dioxane			pecific Notes Instructions:
TRIP BLA	NK_ 135				1					1				N	I G	X	X	Х	X	X	Х			1 Trip Bl	ank
MW-	NK_ 135 820-080323 -825 R= 080323	0/3/23	1420		6					6				λ	16	X	λ	λ	X	L	λ	X		3 VOAs fo	
mw.	- X25 Q = D X0323	8/2/22	1515		6					6				N	16	X	X	λ	X	X	X	X			
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Possible Hazard		nt Poisc	on B	Unkr	()Mm			S	ample	e Disp	osal (A fee	may t	e asse	ssed i	f samp	oles ar				han 1	month)			
special Instruction	s/QC Requirements & Comments: .	10130	on B	Oliki	OWII				-	Return	to Cil	ent	12	Dispo	osal B	y Lab		A	rchive	For 1		Months			
	s through Cadena at itomalia@cadenaco.	.com, Cadena #	E203631																						
Relinquished by: /	117	Company:			Date/Ti	inte:	/			- IR	eccive	d by	/				77			Com	'any			lpm	
150	of Kusper	M	codis		8/	3/	23	16	48		-	Vo	1/1	- (0	10	" 5	br	ace	d	Tu	codis		Date/Time: /	2 11.
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Client: ARCADIS US Inc Job ID: 240-189667-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_135 Lab Sample ID: 240-189667-1

Date Collected: 08/03/23 00:00 Matrix: Water Date Received: 08/05/23 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			08/11/23 17:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/11/23 17:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 17:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/11/23 17:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 17:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/23 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137			-		08/11/23 17:13	1
4-Bromofluorobenzene (Surr)	91		56 ₋ 136					08/11/23 17:13	1
Toluene-d8 (Surr)	97		78 - 122					08/11/23 17:13	1
Dibromofluoromethane (Surr)	106		73 - 120					08/11/23 17:13	1

Date Collected: 08/03/23 14:20 Date Received: 08/05/23 08:00

Method: SW846 8260D SIM	- Volatile Orga	anic Comp	ounds (GC/N	1S)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/09/23 14:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4 (Surr)	92	·	66 - 120			-		08/09/23 14:56	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/11/23 17:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/11/23 17:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 17:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/11/23 17:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 17:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/23 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137		08/11/23 17:37	1
4-Bromofluorobenzene (Surr)	93		56 - 136		08/11/23 17:37	1
Toluene-d8 (Surr)	95		78 - 122		08/11/23 17:37	1
Dibromofluoromethane (Surr)	106		73 - 120		08/11/23 17:37	1

Date Collected: 08/03/23 15:15 Date Received: 08/05/23 08:00

Method: SW846 8260D SIM -	Volatile Orga	anic Comp	ounds (GC/N	IS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/09/23 15:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		66 - 120			_		08/09/23 15:20	1

Eurofins Cleveland

Matrix: Water

Matrix: Water

Client: ARCADIS US Inc Job ID: 240-189667-1
Project/Site: Ford LTP - Off Site

Date Collected: 08/03/23 15:15

Date Received: 08/05/23 08:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/11/23 18:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/11/23 18:00	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 18:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/11/23 18:00	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 18:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/23 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137					08/11/23 18:00	1
4-Bromofluorobenzene (Surr)	93		56 ₋ 136					08/11/23 18:00	1
Toluene-d8 (Surr)	96		78 - 122					08/11/23 18:00	1
Dibromofluoromethane (Surr)	103		73 - 120					08/11/23 18:00	1