

Environment Testing America

ANALYTICAL REPORT

Eurofins Canton 180 S. Van Buren Avenue Barberton, OH 44203 Tel: (330)497-9396

Laboratory Job ID: 240-163384-1 Client Project/Site: Ford LTP - Off Site

For:

ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Attn: Kristoffer Hinskey

Mode Del Your

Authorized for release by: 3/22/2022 9:27:19 AM

Michael DelMonico, Project Manager I (330)497-9396

Michael.DelMonico@Eurofinset.com

·····LINKS ······

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Have a Question?



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-163384-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-163384-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA
Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

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

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

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Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-163384-1

Project/Site: Ford LTP - Off Site

Job ID: 240-163384-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-163384-1

Comments

No additional comments.

Receipt

The samples were received on 3/8/2022 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.8° C and 1.3° C.

GC/MS VOA

Method 8260B: The continuing calibration verification (CCV) associated with batch 519495 recovered above the upper control limit for Vinyl Chloride. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: TRIP BLANK_ 92 (240-163384-1) and MW-128S_030122 (240-163384-2).

Method 8260B SIM: The matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-519570 was above calibration range.

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

VOA Prep

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

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Method Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Job ID: 240-163384-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030B	Purge and Trap	SW846	TAL CAN

Protocol References:

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

Laboratory References:

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

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Sample Summary

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

Job ID: 240-163384-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-163384-1	TRIP BLANK_ 92	Water	03/01/22 11:21	03/08/22 09:50
240-163384-2	MW-128S_030122	Water	03/01/22 11:21	03/08/22 09:50

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Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-163384-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_ 92 Lab Sample ID: 240-163384-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-163384-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_ 92

Date Collected: 03/01/22 11:21 Date Received: 03/08/22 09:50 Lab Sample ID: 240-163384-1

Matrix: Water

Method: 8260B - Volatile O	rganic Compo	unds (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			03/09/22 19:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/09/22 19:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/09/22 19:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/09/22 19:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/09/22 19:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/09/22 19:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		62 - 137					03/09/22 19:13	1
4-Bromofluorobenzene (Surr)	109		56 - 136					03/09/22 19:13	1
Toluene-d8 (Surr)	81		78 - 122					03/09/22 19:13	1
Dibromofluoromethane (Surr)	96		73 - 120					03/09/22 19:13	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-163384-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-128S_030122

Date Collected: 03/01/22 11:21 Date Received: 03/08/22 09:50 Lab Sample ID: 240-163384-2

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			03/09/22 22:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		66 - 120					03/09/22 22:06	1
Method: 8260B - Volatile O	rganic Compo	unds (GC/I	MS)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/09/22 19:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/09/22 19:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/09/22 19:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/09/22 19:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/09/22 19:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/09/22 19:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		62 - 137					03/09/22 19:37	1
4-Bromofluorobenzene (Surr)	108		56 ₋ 136					03/09/22 19:37	1
Toluene-d8 (Surr)	79		78 - 122					03/09/22 19:37	1
Dibromofluoromethane (Surr)	95		73 - 120					03/09/22 19:37	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-163384-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

			Pe	rcent Surre	ogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-163303-E-5 MSD	Matrix Spike Duplicate	81	115	81	96
240-163303-H-5 MS	Matrix Spike	79	114	79	92
240-163384-1	TRIP BLANK_ 92	74	109	81	96
240-163384-2	MW-128S_030122	74	108	79	95
LCS 240-519495/5	Lab Control Sample	73	119	86	92
MB 240-519495/8	Method Blank	75	109	79	93

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Method: 8260B 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)	
240-163384-2	MW-128S_030122	81	
LCS 240-519570/4	Lab Control Sample	81	
MB 240-519570/5	Method Blank	84	

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Job ID: 240-163384-1

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

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

Lab Sample ID: MB 240-519495/8

Matrix: Water

Analysis Batch: 519495

Client Samp	le ID:	Meth	od 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			03/09/22 12:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/09/22 12:20	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/09/22 12:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/09/22 12:20	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/09/22 12:20	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/09/22 12:20	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepare	ed Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	75		62 - 137		03/09/22 12:20	1
4-Bromofluorobenzene (Surr)	109		56 - 136		03/09/22 12:20	1
Toluene-d8 (Surr)	79		78 - 122		03/09/22 12:20	1
Dibromofluoromethane (Surr)	93		73 - 120		03/09/22 12:20	1

Lab Sample ID: LCS 240-519495/5

Matrix: Water

Analysis Batch: 519495

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

%Poc 100 100

	Бріке	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	24.0		ug/L		120	63 - 134	
cis-1,2-Dichloroethene	20.0	22.4		ug/L		112	77 - 123	
Tetrachloroethene	20.0	18.7		ug/L		94	76 - 123	
trans-1,2-Dichloroethene	20.0	23.8		ug/L		119	75 - 124	
Trichloroethene	20.0	23.2		ug/L		116	70 - 122	
Vinyl chloride	20.0	25.6		ug/L		128	60 - 144	

Chika

	LCS LCS						
Surrogate	%Recovery	Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	73		62 - 137				
4-Bromofluorobenzene (Surr)	119		56 ₋ 136				
Toluene-d8 (Surr)	86		78 - 122				
Dibromofluoromethane (Surr)	92		73 120				

Lab Sample ID: 240-163303-E-5 MSD

Matrix: Water

Analysis Batch: 519495

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	1.0	U	20.0	22.7		ug/L		113	56 - 135	0	26
cis-1,2-Dichloroethene	1.0	U	20.0	21.6		ug/L		108	66 - 128	3	14
Tetrachloroethene	1.0	U	20.0	17.1		ug/L		86	62 - 131	2	20
trans-1,2-Dichloroethene	1.0	U	20.0	22.8		ug/L		114	56 - 136	3	15
Trichloroethene	1.0	U	20.0	22.2		ug/L		111	61 - 124	1	15
Vinyl chloride	1.0	U	20.0	25.0		ug/L		125	43 - 157	3	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	81		62 - 137
4-Bromofluorobenzene (Surr)	115		56 - 136
Toluene-d8 (Surr)	81		78 - 122

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Client: ARCADIS U.S., Inc. Job ID: 240-163384-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 240-163303-E-5 MSD

Matrix: Water

Analysis Batch: 519495

MSD MSD

Sample Sample

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 96 73 - 120

Lab Sample ID: 240-163303-H-5 MS

Matrix: Water

Analysis Batch: 519495

Client Sample ID: Matrix Spike

Prep Type: Total/NA

% Pac

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

	Sample	Sample	Spike	IVIO	IVIO				MRec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	20.0	22.7		ug/L		114	56 - 135	
cis-1,2-Dichloroethene	1.0	U	20.0	22.3		ug/L		111	66 - 128	
Tetrachloroethene	1.0	U	20.0	17.4		ug/L		87	62 - 131	
trans-1,2-Dichloroethene	1.0	U	20.0	23.5		ug/L		117	56 - 136	
Trichloroethene	1.0	U	20.0	22.5		ug/L		112	61 - 124	
Vinyl chloride	1.0	U	20.0	25.9		ug/L		129	43 - 157	

MS MS

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MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	79		62 - 137
4-Bromofluorobenzene (Surr)	114		56 - 136
Toluene-d8 (Surr)	79		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

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

Lab Sample ID: MB 240-519570/5

Matrix: Water

Analysis Batch: 519570

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

MB MB **MDL** Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 03/09/22 19:19

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 66 - 120 03/09/22 19:19 84

Lab Sample ID: LCS 240-519570/4

Matrix: Water

Analysis Batch: 519570

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit D %Rec 10.0 1,4-Dioxane 10.8 ug/L 108 80 - 122

LCS LCS

Surrogate %Recovery Qualifier Limits 66 - 120 1,2-Dichloroethane-d4 (Surr) 81

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 240-163384-1 Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 519495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-163384-1	TRIP BLANK_ 92	Total/NA	Water	8260B	
240-163384-2	MW-128S_030122	Total/NA	Water	8260B	
MB 240-519495/8	Method Blank	Total/NA	Water	8260B	
LCS 240-519495/5	Lab Control Sample	Total/NA	Water	8260B	
240-163303-E-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
240-163303-H-5 MS	Matrix Spike	Total/NA	Water	8260B	

Analysis Batch: 519570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-163384-2	MW-128S_030122	Total/NA	Water	8260B SIM	
MB 240-519570/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-519570/4	Lab Control Sample	Total/NA	Water	8260B SIM	

Lab Chronicle

Client: ARCADIS U.S., Inc.

Job ID: 240-163384-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_ 92 Lab Sample ID: 240-163384-1

Date Collected: 03/01/22 11:21 Matrix: Water

Date Received: 03/08/22 09:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519495	03/09/22 19:13	LEE	TAL CAN

Date Collected: 03/01/22 11:21 Date Received: 03/08/22 09:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519495	03/09/22 19:37	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	519570	03/09/22 22:06	CS	TAL CAN

Laboratory References:

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

Matrix: Water

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Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-163384-1 Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22 *
Connecticut	State	PH-0590	12-31-21 *
Florida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22 *
Illinois	NELAP	200004	07-31-22
lowa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22 *
Kentucky (WW)	State	KY98016	12-31-22
Minnesota	NELAP	039-999-348	12-31-22
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	11-06-22
New York	NELAP	10975	03-31-22
Ohio	State	8303	02-23-23
Ohio VAP	State	CL0024	02-27-23
Oregon	NELAP	4062	02-27-23
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-21-14	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Trephone: Margin Limitory	Client Contact	Regulatory program: DW NPDES RCRA Other	NPDES RCRA Other		
Company Comp	Company Name: Areadis				TestAmerica Laboratories, Inc.
	Address: 28550 Cabet Drive Suite 500	Client Project Manager: Kris Hinskey	Site Contact: Julia McClafferty	Lab Contact: Mike DelMonico	COC No:
	Cir/State/Zin: Novi MI 48177	Telephone: 248-994-2240	Telephone: 734-644-5131	Telephone: 330-497-9396	
State Name		Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	
	Phone: 24%-994-2240 Project Name: Ford LTP Off-Site	(TAT if different from below		Walk-in client
1	Project Number: 30080642,402.04	221	v 2 weeks		Lab sampling
1	PO # 30080642.402.04	Shipping/Tracking No:	(A) P	85608 82608	Job/SDG No:
Secretar Transpire Specific Specific		Matrix	dus	18 198 198 198 198 198 198 198 198 198 1	
X X X X X X X X X X	Sample Identification	Sample Time Aduceus Sediment Sediment	HIO3 HIO3 HIGH OTHERS ORDERS ORDERS ORDERS ORDERS ORDERS ORDERS	Cis-1,2-DG Trans-1,2 PCE 8260 TCE 8260 Vinyl Chlo	Sample Specific Notes / Special Instructions:
X X X X X X X X X X		×		× × ×	1 Trip Blank
Sample Disposal (A fee may be accessed if samples are retained longer than Sample Disposal (A fee may be accessed if samples are retained longer than Received by Arcock of Sample Disposal (A fee may be accessed if samples are retained longer than Arcock of Sample Disposal (A fee may be accessed if samples are retained longer than Arcock of Sample Disposal (A fee may be accessed if samples are retained longer than Arcock of Sample Disposal (A fee may be accessed if samples are retained longer than Arcock of Sample Disposal (A fee may be accessed if samples are retained longer than Arcock of Sample Disposal (A fee may be accessed if samples are retained longer than Arcock of Sample Disposal (A fee may be accessed if samples are retained longer than Arcock of Sample Disposal (A fee may be accessed if samples are retained longer than Arcock of Sample Disposal (A fee may be accessed if samples are retained longer than Arcock of Samples Disposal (A fee may be accessed if samples are retained longer than Arcock of Samples Disposal (A fee may be accessed if samples are retained longer than Arcock of Samples Disposal (A fee may be accessed if samples are retained longer than Arcock of Samples Disposal (A fee may be accessed if samples are retained longer than Arcock of Samples are retained are reta	1385	16:11 56/10	Q	x x x	3 VOAs for 8260B
1 Description 1 Received by Received by Received by Received by March 122 1240 Received by Date Time 122 1240 Received by Date Time 122 1240 Received by Date Time 122 1240 Received by PETM	Possible Hazard Identification Von-Hazard Flammable Skin Irr special Instructions/OC Requirements & Comments: Sample Address: 34360 Gopt to		Sample Disposal (A fee may be assessed If	- Oddiody	
Company EETA SITION Company EETA SITION Company EETA Company EETA SITION Company EETA	evel IV Reporting requested.		Received by:	Соппавис	Parting
STISS DOWN YOUR LETN	Com A had	Date Time	Received by Received by Reversed in Laboratory	Compan	Date/Inne
	COOS. Traditional Laborations. Inc., All rights reserved.	10		4	17-2-47

<u>TestAmerica</u>

Chain of Custody Record

Eurofins TestAmerica Canton Sample Receipt Form/Narrative Canton Facility	Login # : 163384
Client Arcadis Site Name	Cooler unpacked by
Cooler Received on 3-8.22 Opened on 3-8.22	Yam Pager
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier	Other
Receipt After-hours: Drop-off Date/Time Storage Location	
Packing material used Bubble Wrap Foam Plastic Bag None Other	
COOLANT: Wet Ice Blue Ice Dry Ice Water None	
1. Cooler temperature upon receipt IR GUN# IR-14 (CF -0.2 °C) Observed Cooler Temp. °C Corrected Cooler T	
IR GUN #IR-14 (CF -0.2°C) Observed Cooler Temp. C Corrected Cooler T	
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity	No.
-Were the seals on the outside of the cooler(s) signed & dated?	No NIA Tests that are not
	checked for pH by Receiving:
-Were tamper/custody seals intact and uncompromised?	
3. Shippers' packing slip attached to the cooler(s)?	No VOAs
4. Did custody papers accompany the sample(s)?	No Oil and Grease TOC
5. Were the custody papers relinquished & signed in the appropriate place?	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	No
7. Did all bottles arrive in good condition (Unbroken)?	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and say	No
10. Were correct bottle(s) used for the test(s) indicated?	(
11. Sufficient quantity received to perform indicated analyses?	No
12. Are these work share samples and all listed on the COC? Yes(No
If yes, Questions 13-17 have been checked at the originating laboratory.	
13. Were all preserved sample(s) at the correct pH upon receipt?	No (NA) pH Strip Lot# HC157842
14. Were VOAs on the COC?	Na
15. Were air bubbles >6 mm in any VOA vials? Larger than this.	₩ NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 40358	No
17. Was a LL Hg or Me Hg trip blank present?Yes	No)
Contacted PM by via Verbal Vo	pice Mail Other
Concerning	
19 CHAIN OF CUCTORY & CAMBLE DISCREPANCIES TO 122	C. I. walker
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page	Samples processed by:
10. CAMBLE CONDITION	
19. SAMPLE CONDITION Sample(s) Were received after the recommended holding	or time had expired
Sample(s) were received after the recommended holdin Sample(s) were received i	in a broken container
Sample(s) were received with bubble >6 mm in	diameter (Notify PM)
	Giameter. (1 versy 1 star)
20. SAMPLE PRESERVATION	
Sample(s) were furth	ner preserved in the laboratory.
Sample(s) were furth Time preserved: Preservative(s) added/Lot number(s):	
VOA Sample Preservation - Date/Time VOAs Frozen:	

DATA VERIFICATION REPORT



March 22, 2022

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

CADENA project ID: E203631

Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater

Project number: 30080642.402.04 WA04 OFF-SITE GW Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - North Central

Laboratory submittal: 163384-1 Sample date: 2022-03-01

Report received by CADENA: 2022-03-22

Initial Data Verification completed by CADENA: 2022-03-22

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.

The following minor QC exceptions or missing information were noted:

GCMS VOC SIM QC batch MS/MSD issues as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

GCMS VOC QC batch CCV response outliers as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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 http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

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 - North Central

Laboratory Submittal: 163384-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401633 3/1/202			MW-128 2401633 3/1/202				
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>0B</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>OBBSim</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 # 240-163384-1

CADENA Verification Report: 2022-03-22

Analyses Performed By: TestAmerica

North Canton, Ohio

Report # 45044R Review Level: Tier III Project: 30080642.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-163384-1 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		Analysis				
Sample ID	D Lab ID Matri		Date	Parent Sample	voc	VOC SIM			
TRIP BLANK_ 92	240-163384-1	Water	03/01/2022		Х				
MW-128S_030122	240-163384-2	Water	03/01/2022		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		X		X	
2. Requested analyses and sample results		Х		Х	
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		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 Method 8260B and 8260B SIM. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

Method	Matrix	Holding Time	Preservation
SW-846 8260B/8260B-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, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compound	Criteria
TRIP BLANK_ 92 MW-128S 030122	Continuous Calibration Verification %D	Vinyl chloride	21.7%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification		
	RRF <0.05	Non-detect	R		
	RRF <0.05	Detect	J		
Initial and Continuing	DDE 40 041	Non-detect	R		
Calibration	RRF <0.01 ¹	Detect	J		
	DDE > 0.05 - DDE > 0.041	Non-detect	NI - A -4:		
	RRF >0.05 or RRF >0.01 ¹	Detect	No Action		

Initial/Continuing	Criteria	Sample Result	Qualification
	%RSD > 20% or a correlation coefficient	Non-detect	UJ
Initial Calibration	<0.99	Detect	J
Initial Calibration	%RSD > 90%	Non-detect	R
	%R3D > 90%	Detect	J
	0/D > 200/ (in any age in a graphicity)	Non-detect	No Action
	%D >20% (increase in sensitivity)	Detect	J
0	0/ D > 000/ (-1	Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
	0/ D > 000/ /i/-	Non-detect	R
	%D > 90% (increase/decrease in sensitivity)	Detect	J

Note:

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.

¹RRF of 0.01 only applies to compounds which are typically poor responding compounds.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260B/8260B-SIM	Rep	orted	Perfo Acce	Not Required	
	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		X		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Bhagyashree Fulzele

SIGNATURE: Sfutzele

DATE: March 29, 2022

PEER REVIEW: Andrew Korycinski

DATE: March 30, 2022

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190

Chain of Custody Record

Te	20	: 1,4	M	ner	ica
		_			L TESTING

Client Contact	Regulat	ory program:			DW	1	□ NE	DES		F	RCR/		Г	Othe	r	-				-		-				
Company Name: Arcadis																										TestAmerica Laboratories, In
Address: 28550 Cabot Drive, Suite 500	Client Project !	Manager: Kris	Hinsk	ey			Site Co	ntact:	Julia	a McC	laffe	rty	Lab Contact: Mike DelMonico							Monio	0				ľ	COC No:
	Telephone: 248	-994-2240					Teleph	one: 7	734-64	44-51.	31				\neg	Teleph	one:	330-4	97-93	96						
City/State/Zip: Novi, MI, 48377	Consile baista (C	er.hinskey a ar					An	alysis	B 81777	18 PONT	76 116	ne		_	_				A	naly	205					1 of 1 COCs For lab use only
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Sample Identification	Sample Date	Sample Time	Air	Aqueous	Solid	Other:	H2SO4	Ξ	HOR	ZaAc	Unpres	College	Filtered	Composite C / Grab=G	1,1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride	1.4-Dioxane	1		1 1		Special Instructions:
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TRIP BLANK_ 92 MW ~ 1285_ 030122				X				1					N	6	Χ	X	X	X	X	X						1 Trip Blank
MW-1285-030122	03/01/22	11:21		Х				6					N	B	X	X	X	Y	×	×	X					3 VOAs for 8260B 3 VOAs for 8260B SIM
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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-163384-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_ 92

Date Collected: 03/01/22 11:21 Date Received: 03/08/22 09:50 Lab Sample ID: 240-163384-1

Matrix: Water

Method: 8260B - Volatile O	rganic Compo	unds (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			03/09/22 19:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/09/22 19:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/09/22 19:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/09/22 19:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/09/22 19:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/09/22 19:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		62 - 137					03/09/22 19:13	1
4-Bromofluorobenzene (Surr)	109		56 - 136					03/09/22 19:13	1
Toluene-d8 (Surr)	81		78 - 122					03/09/22 19:13	1
Dibromofluoromethane (Surr)	96		73 - 120					03/09/22 19:13	1

Eurofins Canton

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-163384-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-128S_030122

Date Collected: 03/01/22 11:21 Date Received: 03/08/22 09:50 Lab Sample ID: 240-163384-2

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			03/09/22 22:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		66 - 120					03/09/22 22:06	1
Method: 8260B - Volatile O	rganic Compo	unds (GC/I	MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/09/22 19:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/09/22 19:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/09/22 19:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/09/22 19:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/09/22 19:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/09/22 19:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		62 - 137					03/09/22 19:37	1
4-Bromofluorobenzene (Surr)	108		56 - 136					03/09/22 19:37	1
Toluene-d8 (Surr)	79		78 - 122					03/09/22 19:37	1
Dibromofluoromethane (Surr)	95		73 - 120					03/09/22 19:37	1