PREPARED FOR

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

Generated 11/27/2023 4:34:43 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-195187-1

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 11/27/2023 4:34:43 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: 240-195187-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-195187-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

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 US Inc

Job ID: 240-195187-1

Project/Site: Ford LTP - Off Site

Job ID: 240-195187-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-195187-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/10/2023 8:00 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 2.7°C and 2.9°C

GC/MS VOA

Method 8260D: The MS/MSD for batch 595117 was not reported because the parent sample needed a different dilution. TRIP BLANK_35 (240-195187-1) and MW-130S 110823 (240-195187-2)

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: 240-195187-1

Project/Site: Ford LTP - Off Site

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-195187-1	TRIP BLANK_35	Water	11/08/23 00:00	11/10/23 08:00
240-195187-2	MW-130S_110823	Water	11/08/23 12:45	11/10/23 08:00

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Job ID: 240-195187-1

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Detection Summary

Client: ARCADIS US Inc Job ID: 240-195187-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_35 Lab Sample ID: 240-195187-1

No Detections.

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Vinyl chloride	3.4	1.0	0.45 ug/L	1	8260D	Total/NA

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195187-1

Project/Site: Ford LTP - Off Site

Date Received: 11/10/23 08:00

Client Sample ID: TRIP BLANK_35

Lab Sample ID: 240-195187-1 Date Collected: 11/08/23 00:00

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			11/18/23 13:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/18/23 13:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/18/23 13:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/18/23 13:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/18/23 13:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/18/23 13:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137			-		11/18/23 13:56	1
4-Bromofluorobenzene (Surr)	67		56 ₋ 136					11/18/23 13:56	1
Toluene-d8 (Surr)	100		78 - 122					11/18/23 13:56	1
Dibromofluoromethane (Surr)	106		73 - 120					11/18/23 13:56	1

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195187-1

Project/Site: Ford LTP - Off Site

Date Received: 11/10/23 08:00

Client Sample ID: MW-130S_110823

Lab Sample ID: 240-195187-2 Date Collected: 11/08/23 12:45

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/22/23 15:29	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	102		66 - 120			-		11/22/23 15:29	

-	inalyte	Result	Qualifier	KL	MDL	Unit	U	Prepared	Analyzea	DII Fac
1	,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/18/23 15:53	1
С	is-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/18/23 15:53	1
Т	etrachloroethene	1.0	U	1.0	0.44	ug/L			11/18/23 15:53	1
tı	ans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/18/23 15:53	1
Т	richloroethene	1.0	U	1.0	0.44	ug/L			11/18/23 15:53	1
١	inyl chloride	3.4		1.0	0.45	ug/L			11/18/23 15:53	1
5	Surrogate	%Recovery	Qualifier	Limits			_	Prepared	Analyzed	Dil Fac

Surrogate	%Recovery G	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102	62 - 137		11/18/23 15:53	1
4-Bromofluorobenzene (Surr)	66	56 - 136		11/18/23 15:53	1
Toluene-d8 (Surr)	98	78 - 122		11/18/23 15:53	1
Dibromofluoromethane (Surr)	114	73 - 120		11/18/23 15:53	1

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-195187-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-195187-1	TRIP BLANK_35	100	67	100	106
240-195187-2	MW-130S_110823	102	66	98	114
LCS 240-595117/5	Lab Control Sample	93	83	103	99
MB 240-595117/9	Method Blank	107	76	108	114

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)	
240-195187-2	MW-130S_110823	102	
240-195207-G-2 MS	Matrix Spike	99	
240-195207-N-2 MSD	Matrix Spike Duplicate	103	
LCS 240-595507/4	Lab Control Sample	99	
MB 240-595507/6	Method Blank	98	

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

Client: ARCADIS US Inc Job ID: 240-195187-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-595117/9 **Matrix: Water**

Analysis Batch: 595117

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 11/18/23 11:59 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 11/18/23 11:59 1.0 U Tetrachloroethene 1.0 0.44 ug/L 11/18/23 11:59 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 11/18/23 11:59 Trichloroethene 1.0 0.44 ug/L 11/18/23 11:59 1.0 U Vinyl chloride 1.0 11/18/23 11:59 1.0 U 0.45 ug/L

MB MB %Recovery Qualifier Prepared Dil Fac Surrogate Limits Analyzed 62 - 137 1,2-Dichloroethane-d4 (Surr) 107 11/18/23 11:59 4-Bromofluorobenzene (Surr) 76 56 - 136 11/18/23 11:59 Toluene-d8 (Surr) 108 78 - 122 11/18/23 11:59 Dibromofluoromethane (Surr) 114 73 - 120 11/18/23 11:59

Lab Sample ID: LCS 240-595117/5

Matrix: Water

Analysis Batch: 595117

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Бріке	LUS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	19.1		ug/L		96	63 - 134	
cis-1,2-Dichloroethene	20.0	19.5		ug/L		97	77 - 123	
Tetrachloroethene	20.0	18.7		ug/L		93	76 - 123	
trans-1,2-Dichloroethene	20.0	19.1		ug/L		95	75 - 124	
Trichloroethene	20.0	18.4		ug/L		92	70 - 122	
Vinyl chloride	20.0	17.9		ug/L		90	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 93 62 - 137 4-Bromofluorobenzene (Surr) 83 56 - 136 Toluene-d8 (Surr) 103 78 - 122 Dibromofluoromethane (Surr) 73 - 120 99

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

Lab Sample ID: MB 240-595507/6 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

								a rele ay here.	
Analysis Batch: 595507									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/22/23 09:09	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 120			-		11/22/23 09:09	1

Eurofins Cleveland

QC Sample Results

Client: ARCADIS US Inc Job ID: 240-195187-1 Project/Site: Ford LTP - Off Site

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

Matrix: Water Analysis Batch: 595507

Lab Sample ID: LCS 240-595507/4

Spike LCS LCS %Rec Result Qualifier Analyte Added Unit %Rec Limits 1,4-Dioxane 10.0 10.2 ug/L 102 80 - 122

LCS LCS Surrogate %Recovery Qualifier Limits 66 - 120 1,2-Dichloroethane-d4 (Surr) 99

Lab Sample ID: 240-195207-G-2 MS

Matrix: Water

Analysis Batch: 595507

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 2.0 U 10.0 10.2 102 51 - 153 ug/L MS MS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 99

Lab Sample ID: 240-195207-N-2 MSD

Matrix: Water

Analysis Batch: 595507

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	10.3		ug/L		103	51 - 153	2	16

Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 103 66 - 120

MSD MSD

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

QC Association Summary

Client: ARCADIS US Inc Job ID: 240-195187-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 595117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
240-195187-1	TRIP BLANK_35	Total/NA	Water	8260D
240-195187-2	MW-130S_110823	Total/NA	Water	8260D
MB 240-595117/9	Method Blank	Total/NA	Water	8260D
LCS 240-595117/5	Lab Control Sample	Total/NA	Water	8260D

Analysis Batch: 595507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-195187-2	MW-130S_110823	Total/NA	Water	8260D SIM	
MB 240-595507/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-595507/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-195207-G-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-195207-N-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-195187-1

Project/Site: Ford LTP - Off Site

Date Received: 11/10/23 08:00

Client Sample ID: TRIP BLANK_35

Lab Sample ID: 240-195187-1 Date Collected: 11/08/23 00:00

Matrix: Water

Dilution Batch Batch Batch Prepared Method Prep Type Туре Run Factor **Number Analyst** Lab or Analyzed Total/NA 8260D 595117 AJS EET CLE 11/18/23 13:56 Analysis

Client Sample ID: MW-130S_110823 Lab Sample ID: 240-195187-2

Date Collected: 11/08/23 12:45 **Matrix: Water**

Date Received: 11/10/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	595117	AJS	EET CLE	11/18/23 15:53
Total/NA	Analysis	8260D SIM		1	595507	CS	EET CLE	11/22/23 15:29

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 Job ID: 240-195187-1 Project/Site: Ford LTP - Off Site

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

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

Client Contact	Regulatory program:	gram:	MO	NPDES	L	RCRA	Other					,		
Company Name: Arcadis													TestA	TestAmerica Laboratories, Inc.
Address: 28550 Cabal Drive Suite 500	Client Project Manager: Kris Hinskey	: Kris Hinske	۸.	Site Cont.	Site Contact: Christina Weaver	Weaver		l.ab	Lab Contact: Mike DelMonico	fike Del	Monico		COC No:	No:
City/State/Zin: Novi. Mt. 48377	Telephone: 248-994-2240	01		Telephon	Telephone: 248-994-2240	0		Tele	Telephone: 330-497-9396	1497-939	90			1 of 4
	Entail: kristoffer.hinskey@arcadis.com	ey@arcadis.c	om	Analy	Analysis Turnaround Hine	d Time		$\left \cdot \right $		V	Analyses		For lab	huc
Phone: 248-994-2240	Samuler Name:			TATidane	FAT if different from below			_					Walk-ii	Walk-in client
Project Name: Ford LTP Off-Site		Forth		10 day	3 weeks	ks ks	1						and to	i circii
Project Number: 30167538,402,04	bme	rrier:			LL			_	a					ao samping
PO#30167538,402.04	Shipping/Tracking No:				l day		Grab		928				Job/SDG No	OG No:
			Matrix	Cont	Containers & Preservative)=0	_		_				
Sample Identification	Sample Date Sample Time	niA	Sediment Solid Solid Other:	FOSTH	NaOH NaOH NaOH	Unpres	Filtered S	1,1-DCE 8	Trans-1,2	1CE 8560	Vinyl Chlo			Sample Specific Notes / Special Instructions:
J TRIP BLANK 35			-				ڻ ع	×	×	×	×		-	1 Trip Blank
1 MW-1204 110823	11-9-72 124	V	9		0)		7	×	>	X	>		3 \	3 VOAs for 8260D
	-	,			,			_			_		36	/OAs for 8260D SIM
age														
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					+									
					54	240-195187 Chain of Custody	Chain o	f Custo	λγ				Σ	CHICA
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Possible Hazard Identification Non-Hazard Flammable Skin Irritant	itant Poison B	Unknown	wi	Sample	Sample Disposal (Afee may be assessed if samples are retained longer than 1 month) Return to Chent > Disposal By Lab Archive For Mo	ee may be ass	: assessed if sam Disposal By Lab	amples ar	e retained	longer t	han 1 moi	nth) Months		
Special Instructions/QC Requirements & Comments: Sample Address: 34600 BEACOA	Los.													
Submit all results through Cadena at itomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.	co.com. Cadena #E20363	<u> </u>												
Relinquished	Company Accodis		Date/Time:	1445	Received by:	7	olds	brag	0	Company	TOWNY:	chs	Date/Time	19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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TestAmerica

Chain of Custody Record

Eurofins – Cleveland Sampl	e Receipt Form/Narrative	Logi	n#: 195187
Barberton Facility	e meetpe i ombrimment	Doğ.	
Client Accadis	Site Name		Cooler unpacked by:
). 23 Opened on	11/10/23	W.M. Athilor
	FAS (Waypoint) Client Drop		Other
Receipt After-hours: Drop-off		Storage Location	
Eurofins Cooler #	Foam Box Client Cooler	Box Other	
	Bubble Wrap Foam Plastic		
COOLANT: Wet		Vater None	
1. Cooler temperature upon re	eceipt	See Multiple Cooler	Form
IR GUN# 22	(CF + °C) Observed C	ooler Temp°C	Corrected Cooler Temp°C
	on the outside of the cooler(s)? I		Yes No Tests that are not
	tside of the cooler(s) signed & da		checked for pH by
-	als on the bottle(s) or bottle kits (I		(es No Receiving:
	als intact and uncompromised?		No NA VOAs
3. Shippers' packing slip attack			Oil and Creese
4. Did custody papers accomp	linquished & signed in the appropriate		e No TOC
	o collected the samples clearly ide		es No
 Was/were the person(s) who Did all bottles arrive in goo 		and the COC?	es No
	Date/Time) be reconciled with the	COC3	es) No
	COC specify preservatives (Y/V) ,		
10. Were correct bottle(s) used		" of containers (1)11), and	2 No
	to perform indicated analyses?	X	No.
12. Are these work share sample	-	Y	res 160
	ve been checked at the originating		
	s) at the correct pH upon receipt?	•	es No NA pH Strip Lot# HC316719
14. Were VOAs on the COC?	, a. a. concerp	Ŕ	ès No
15. Were air bubbles >6 mm in	any VOA vials? 🛑 悔 Larg	ger than this.	es NO NA
	ent in the cooler(s)? Trip Blank I		es) No
17. Was a LL Hg or Me Hg tri	p blank present?	Y	es (No)
Contacted PM		via Verbal	Voice Mail Other
Concerning			
18. CHAIN OF CUSTODY &	& SAMPLE DISCREPANCIES	additional next page	Samples processed by:
19. SAMPLE CONDITION			
	were received a		
			ed in a broken container.
Sample(s)	were re	ceived with bubble >6 mm	n in diameter. (Notify PM)
20. SAMPLE PRESERVATI	ON		
Sample(s)		were f	further preserved in the laboratory.
Γime preserved:	Preservative(s) added/Lot number	r(s):	
VOA Sample Preservation - Da	ate/Time VOAs Frozen:		

				Eurofins - Can	ton Sample Receip	Multiple Cooler Form	
C	ooler D	escr	ption	IR Gun#	Observed	Corrected	Coolant
	(Ci	rcle)		(Circle)	Temp °C	Temp °C	(Circle)
(19	Client	Box	Other	IR GUN 0;		2.9	Welke Blue Ice Dyke
(EC)	Clent	Box	Other	IR GUN #:	1.6	2.7	Wellice' Blue Ice By Ice
EC	Clent	Box	Other	IR GUN #:			Wellice Blue Ice By Ice Water Mone
BC	Client	Box	Other	IR GUN #:			Weller None
IC	Client	Box	Other	IR GUN 8:			Welte Shee Ice Bylce Welst Mane
BC	Cloud	Best	Other	IR GUN #:			Welte Nee Ice Bylce
8C	Client	Box	Other	IR 69H 6:			Wellice Sive Ice Bylce Water Mane
BC	Client	Best	Other	IR GUN 9:			Wellice Blue Ice Bylce Water Mane
ac.	Clout	Des	Other	IR GUN #:			Wellies the tee bytes
BC	Client	Box	Other	12 GUN #:			Welter the tee bytee
BC	Cloud	Bex	Other	R 60H #:			Work too the too bytes
8C	Cloud	3ex	Other	IR GON #:		-	Wellice Nee Ice Byte
BC	Cloud	Box	Other	IR GUN #:			Well to She lee Byte
BC	Cloni	Bex	Other	IR GON #:			Well too Shee See By too
€C	Clent	Bex	Other	IR GON F:			Well to She fee By to
BC	Client	Bex	Other	IR 60N #:			Wellice She fice Bylce
BC	Client	Bex	Other	# OW 6:			Wet toe Sive toe By to
, BC	Client	Bex	Other	IR 66H 6:			Wellice the ice byte
BC	Cloud	Don	Other	IR GUN F:			Wellice Blue Ice Byte
BC	Client	Sex	Other	12 GUN 6:			Well too Blue too Brytes Water Mann
80	Client	Box	Other	12 CHH 6:			Weller Need Byte
BC	Client	Box	Other	It 60H 4:			Wellice Nee Ice Byte Water Mone
BC	Client	ðex	Other	R GWI #:			Wellto Nee Ico Byte
BC	Client	Box	Other	IR 64N 5:			Wellice Blue Ice Byte Water Mane
8C	Client	Dex	Other	18 GOM 6:			Wellice Steelice Bytes Water Mana
BC .	Client	Best	Other	IR GUN 6:	,		Wet toe Stue toe By to Water Mine.
BC	Client	Box	Other	R GUN #:			Weller Mone
BC	Cloud	Box	Other	IR GUN F:			Wolfied Mode By to
8C	Client	Box	Other	R GUN F:			Wellice Nive Ice Bry to
BC	Client	Box	Other	IR GUH 6:			Well to Sive to By to
8C	Clout	.Box	Öther	IR GUN #:			Wellice Siee ice Brylos Window Manne
8C	Cloud	Bex	Other	IR GUN #:			Wel Ice Blue Ice Dry Ice
BC	Client	Box	Other	R 60H 6:			Wellice Sheetice Bryton
EC	Client	Box	Other	R GM #:	·		Wellice live toe Bry to Water Mane
						See Temp	ereture Excursion Form

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

DATA VERIFICATION REPORT



November 27, 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: 195187-1 Sample date: 2023-11-08

Report received by CADENA: 2023-11-27

Initial Data Verification completed by CADENA: 2023-11-27

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 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.

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 $48108\ 517\text{-}819\text{-}0356$

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 - Cleveland

Laboratory Submittal: 195187-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401951 11/8/20	L871			MW-130 2401953 11/8/20	1872	23	
				Report		Valid		Report		Valid
	Analyte	Cas No.	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	
	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		3.4	1.0	ug/l	
OSW-8260	<u>DDSIM</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 # 240-195187-1

CADENA Verification Report: 2023-11-27

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 52132R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-195187-1 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	Parent Sample	Ana	lysis
Sample 10	Labib	IVIALITA	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_35	240-195187-1	Water	11/08/2023		X	
MW-130S_110823	240-195187-2	Water	11/08/2023		Х	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance otable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
Requested analyses and sample results		X		Х	
Master tracking list		X		Х	
4. Methods of analysis		X		Х	
5. Reporting limits		X		Х	
6. Sample collection date		X		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 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

VOCs: 8260D/8260D-SIM	Rep	oorted		rmance ptable	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		X		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion 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: Bindu Sree M B

SIGNATURE: BAShims

DATE: December 15, 2023

PEER REVIEW: Andrew Korycinski

DATE: December 19, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record



<u>TestAmerica</u>

Client Contact	Regulat	ory program:		7	DW	F N	PDES		Г	RCRA	1	Ot	ther		-								
Company Name: Arcadis	Client Project Manager: Kris Hinskey Telephone: 248-994-2240				Site Contact: Christina Weaver						Lab Contact: Mike DelMonico Telephone: 330-497-9396					TestAmerica Laboratories, Inc							
Address: 28550 Cabot Drive, Suite 500					Telephone: 248-994-2240																		
City/State/Zip: Novi, MI, 48377										1 of 1 COCs													
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.c	om		Analysis Turnaround Time					Analyses						For lab use only						
Project Name: Ford LTP Off-Site	Sampler Name:				TAT	different		iclow 3 we	eks	-1											Walk-in client		
Project Number: 30167538.402.04	JOE Method of Ship	FOSTI	K			10	day		2 we	cks									_			Lab sampling	
	Method of Ship	ment/Carrier:							1 we 2 day		2	2 9			9			٩	SIM				
PO # 30167538.402.04	Shipping/Track	ding No:							1 da	У	Comple (V / N)	mpie (x/iv)	9	3260D	E 826			8260D	8260D			Job/SDG No:	
				M	atrix	C	ontain	ers &	Prese	rvatives	7	7 5	826(CE	2-DC	00	8	oride	ane 8				
Sample Identification	Sample Date	Sample Time	Air	Aqueops	Solid	H2SO4	HC	NaOH	ZnAci	Unpres Other:	Wittered	Composite	1.1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride	1,4-Dioxane			Sample Specific Notes / Special Instructions:	
TRIP BLANK_ 35				1			1				N	10	3 X	X	X	X	X	X				1 Trip Blank	
MW-1305_110823	11-8-23	1245		6			6				^	16	, x	X	X	X	×	×	×			3 VOAs for 8260D 3 VOAs for 8260D SIM	
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														190									
Possible Hazard Identification Non-Hazard Flammable Skin Irrit	ant Poisc	m R	Unkn	own		San	nple Di	ispos	al (A	fee may	be asse	essed	if sam	ples a	re reta	ined le	nger	than 1		i) onths		1	
Special Instructions/QC Requirements & Comments:		,	CHKI	OWII			Kett		Cito	1 1	Disp	ousai i	оу сас		-	Archiv	e POF		M	ontns			
Sample Address: 3 4600 BEAC Submit all results through Cadena at jtomalia@cadenace		E203631																					
Level IV Reporting requested.	Lo							_															
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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195187-1 Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_35

Lab Sample ID: 240-195187-1

Date Collected: 11/08/23 00:00 **Matrix: Water** Date Received: 11/10/23 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			11/18/23 13:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/18/23 13:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/18/23 13:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/18/23 13:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/18/23 13:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/18/23 13:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137					11/18/23 13:56	1
4-Bromofluorobenzene (Surr)	67		56 - 136					11/18/23 13:56	1
Toluene-d8 (Surr)	100		78 - 122					11/18/23 13:56	1
Dibromofluoromethane (Surr)	106		73 - 120					11/18/23 13:56	1

Client Sample ID: MW-130S_110823
Date Collected: 11/08/23 12:45 Lab Sample ID: 240-195187-2 Matrix: Water

Date Received: 11/10/23 08:								IVIALITIX	. water
_ Method: SW846 8260D SIN	I - 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			11/22/23 15:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 120			-		11/22/23 15:29	1
_ Method: SW846 8260D - Vo	olatile Organic	Compoun	ds bv GC/MS						
Analyte	_	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/18/23 15:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/18/23 15:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/18/23 15:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/18/23 15:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/18/23 15:53	1
Vinyl chloride	3.4		1.0	0.45	ug/L			11/18/23 15:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			-		11/18/23 15:53	1
4-Bromofluorobenzene (Surr)	66		56 - 136					11/18/23 15:53	1
Toluene-d8 (Surr)	98		78 - 122					11/18/23 15:53	1
Dibromofluoromethane (Surr)	114		73 - 120					11/18/23 15:53	1

1,2-Dichloroethane-d4 (Surr)	102	62 - 137	11/18/23 15:53	1
4-Bromofluorobenzene (Surr)	66	56 - 136	11/18/23 15:53	1
Toluene-d8 (Surr)	98	78 - 122	11/18/23 15:53	1
Dibromofluoromethane (Surr)	114	73 - 120	11/18/23 15:53	1
_				