ANALYTICAL REPORT

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

Laboratory Job ID: 240-162587-1 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: 2/24/2022 8:28:06 AM

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

Michael.DelMonico@Eurofinset.com

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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: 240-162587-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-162587-1

Project/Site: Ford LTP - Off-Site

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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.
Project/Site: Ford LTP - Off-Site

Job ID: 240-162587-1

Job ID: 240-162587-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-162587-1

Comments

No additional comments.

Receipt

The samples were received on 2/10/2022 11:00 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 1.9° C and 4.1° C.

GC/MS VOA

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

VOA Prep

No 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: 240-162587-1

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: 240-162587-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-162587-1	TRIP BLANK_05	Water	02/07/22 00:00	02/10/22 11:00
240-162587-2	MW-110S 020722	Water	02/07/22 14:31	02/10/22 11:00

Detection Summary

Client: ARCADIS U.S., Inc. Job ID: 240-162587-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_05 Lab Sample ID: 240-162587-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-162587-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_05

Date Collected: 02/07/22 00:00 Date Received: 02/10/22 11:00 Lab Sample ID: 240-162587-1

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			02/11/22 18:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/11/22 18:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/11/22 18:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/11/22 18:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/11/22 18:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/11/22 18:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137			•		02/11/22 18:43	1
4-Bromofluorobenzene (Surr)	100		56 - 136					02/11/22 18:43	1
Toluene-d8 (Surr)	93		78 - 122					02/11/22 18:43	1
Dibromofluoromethane (Surr)	94		73 - 120					02/11/22 18:43	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-162587-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: MW-110S_020722

Date Collected: 02/07/22 14:31 Date Received: 02/10/22 11:00 Lab Sample ID: 240-162587-2

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			02/11/22 22:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		66 - 120					02/11/22 22:43	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			02/11/22 19:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/11/22 19:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/11/22 19:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/11/22 19:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/11/22 19:05	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/11/22 19:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137			,		02/11/22 19:05	1
4-Bromofluorobenzene (Surr)	102		56 ₋ 136					02/11/22 19:05	1
Toluene-d8 (Surr)	94		78 - 122					02/11/22 19:05	1
Dibromofluoromethane (Surr)	97		73 - 120					02/11/22 19:05	1

Client: ARCADIS U.S., Inc. Job ID: 240-162587-1

Project/Site: Ford LTP - Off-Site

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

Matrix: Water Prep Type: Total/NA

			Pe	rcent Surro	ogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-162582-E-2 MS	Matrix Spike	99	102	96	99
240-162582-H-2 MSD	Matrix Spike Duplicate	95	101	93	95
240-162587-1	TRIP BLANK_05	95	100	93	94
240-162587-2	MW-110S_020722	97	102	94	97
LCS 240-517868/5	Lab Control Sample	92	99	91	95
LCSD 240-517868/6	Lab Control Sample Dup	94	100	92	95
MB 240-517868/9	Method Blank	94	98	92	94

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Prep Type: Total/NA **Matrix: Water**

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(66-120)	
240-162582-I-2 MS	Matrix Spike	81	
240-162582-O-2 MSD	Matrix Spike Duplicate	81	
240-162587-2	MW-110S_020722	83	
LCS 240-517921/4	Lab Control Sample	82	
MB 240-517921/5	Method Blank	82	
Surrogate Legend			

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	(10-150)	
MRL 240-517921/6	Lab Control Sample	80	
Surrogate Legend			
DCA = 1,2-Dichloroet	hane-d4 (Surr)		

Client: ARCADIS U.S., Inc. Job ID: 240-162587-1

Project/Site: Ford LTP - Off-Site

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

Lab Sample ID: MB 240-517868/9

Matrix: Water

Analysis Batch: 517868

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

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Analyte 0.49 ug/L 1,1-Dichloroethene 1.0 U 1.0 02/11/22 12:14 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 02/11/22 12:14 1.0 U Tetrachloroethene 1.0 0.44 ug/L 02/11/22 12:14 trans-1,2-Dichloroethene 1.0 0.51 ug/L 02/11/22 12:14 1.0 U Trichloroethene 1.0 U 1.0 0.44 ug/L 02/11/22 12:14 Vinyl chloride 1.0 U 1.0 0.45 ug/L 02/11/22 12:14

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 62 - 137 1,2-Dichloroethane-d4 (Surr) 94 02/11/22 12:14 4-Bromofluorobenzene (Surr) 98 56 - 136 02/11/22 12:14 92 78 - 122 Toluene-d8 (Surr) 02/11/22 12:14 Dibromofluoromethane (Surr) 94 73 - 120 02/11/22 12:14

Lab Sample ID: LCS 240-517868/5

Matrix: Water

Analysis Batch: 517868

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	19.9		ug/L		99	63 - 134	
cis-1,2-Dichloroethene	20.0	18.0		ug/L		90	77 - 123	
Tetrachloroethene	20.0	16.8		ug/L		84	76 - 123	
trans-1,2-Dichloroethene	20.0	18.2		ug/L		91	75 - 124	
Trichloroethene	20.0	17.9		ug/L		89	70 - 122	
Vinyl chloride	20.0	17.6		ug/L		88	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 92 62 - 137 4-Bromofluorobenzene (Surr) 99 56 - 136 Toluene-d8 (Surr) 91 78 - 122 73 - 120 Dibromofluoromethane (Surr) 95

Lab Sample ID: LCSD 240-517868/6

Matrix: Water

Analysis Batch: 517868

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

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	20.0	22.1		ug/L		110	63 - 134	10	35
cis-1,2-Dichloroethene	20.0	19.9		ug/L		99	77 - 123	10	35
Tetrachloroethene	20.0	18.7		ug/L		93	76 - 123	10	35
trans-1,2-Dichloroethene	20.0	20.4		ug/L		102	75 - 124	12	35
Trichloroethene	20.0	19.8		ug/L		99	70 - 122	10	35
Vinyl chloride	20.0	19.6		ug/L		98	60 - 144	11	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	100		<i>56 - 136</i>
Toluene-d8 (Surr)	92		78 - 122

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Client: ARCADIS U.S., Inc. Job ID: 240-162587-1

Project/Site: Ford LTP - Off-Site

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

Lab Sample ID: LCSD 240-517868/6

Matrix: Water

Analysis Batch: 517868

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

LCSD LCSD

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 95 73 - 120

Lab Sample ID: 240-162582-E-2 MS

Matrix: Water

Analysis Batch: 517868

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Sample Sample Spike MS MS %Rec. Result Qualifier Added Limits **Analyte** Result Qualifier Unit D %Rec 1.0 U 1,1-Dichloroethene 20.0 20.8 ug/L 104 56 - 135 cis-1,2-Dichloroethene 0.73 J 20.0 18.7 ug/L 90 66 - 128 Tetrachloroethene 1.0 U 20.0 16.7 ug/L 84 62 - 131 trans-1,2-Dichloroethene 1.0 U 20.0 18.6 93 56 - 136 ug/L Trichloroethene 1.0 U 20.0 17.2 ug/L 86 61 - 124 Vinyl chloride 1.0 U 20.0 21.3 ug/L 107 43 - 157

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	96		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

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

Matrix: Water

Analysis Batch: 517868

Lab Sample ID: 240-162582-H-2 MSD

	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	22.3		ug/L		112	56 - 135	7	26
cis-1,2-Dichloroethene	0.73	J	20.0	20.4		ug/L		99	66 - 128	9	14
Tetrachloroethene	1.0	U	20.0	17.8		ug/L		89	62 - 131	6	20
trans-1,2-Dichloroethene	1.0	U	20.0	20.5		ug/L		102	56 - 136	10	15
Trichloroethene	1.0	U	20.0	18.8		ug/L		94	61 - 124	9	15
Vinyl chloride	1.0	U	20.0	21.3		ug/L		106	43 - 157	0	24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		62 - 137
4-Bromofluorobenzene (Surr)	101		56 ₋ 136
Toluene-d8 (Surr)	93		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120

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

Lab Sample ID: MB 240-517921/5

Matrix: Water

Analysis Batch: 517921

Client Sample ID: Method Blank

Prep Type: Total/NA

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			02/11/22 16:28	1

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Job ID: 240-162587-1

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off-Site

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

Client Sample ID: Method Blank Lab Sample ID: MB 240-517921/5 **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 517921

MB MB

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 82 66 - 120 02/11/22 16:28

Lab Sample ID: LCS 240-517921/4 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 517921

Spike LCS LCS %Rec. Added Unit Limits Analyte Result Qualifier %Rec 1,4-Dioxane 10.0 9.73 ug/L 97 80 - 122

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 82

Lab Sample ID: MRL 240-517921/6 **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA**

Analysis Batch: 517921

Spike MRL MRL %Rec. Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 0.00100 0.000899 90 ng/uL 10 - 150

MRL MRL Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 80 10 - 150

Lab Sample ID: 240-162582-I-2 MS **Client Sample ID: Matrix Spike** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 517921

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Unit %Rec Limits Result Qualifier 1,4-Dioxane Ū 10.0 10.3 51 - 153 2.0 ug/L 103

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

Lab Sample ID: 240-162582-O-2 MSD

Matrix: Water

Analysis Batch: 517921

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit 1,4-Dioxane 2.0 U 10.0 10.7 ug/L 107 51 - 153

MSD MSD

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

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

QC Association Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off-Site

Job ID: 240-162587-1

GC/MS VOA

Analysis Batch: 517868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-162587-1	TRIP BLANK_05	Total/NA	Water	8260B	
240-162587-2	MW-110S_020722	Total/NA	Water	8260B	
MB 240-517868/9	Method Blank	Total/NA	Water	8260B	
LCS 240-517868/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 240-517868/6	Lab Control Sample Dup	Total/NA	Water	8260B	
240-162582-E-2 MS	Matrix Spike	Total/NA	Water	8260B	
240-162582-H-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 517921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-162587-2	MW-110S_020722	Total/NA	Water	8260B SIM	
MB 240-517921/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-517921/4	Lab Control Sample	Total/NA	Water	8260B SIM	
MRL 240-517921/6	Lab Control Sample	Total/NA	Water	8260B SIM	
240-162582-I-2 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-162582-O-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-162587-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_05

Lab Sample ID: 240-162587-1 Date Collected: 02/07/22 00:00

Matrix: Water

Date Received: 02/10/22 11:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	517868	02/11/22 18:43	HMB	TAL CAN

Client Sample ID: MW-110S_020722

Lab Sample ID: 240-162587-2

Matrix: Water

Date Collected: 02/07/22 14:31 Date Received: 02/10/22 11:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	517868	02/11/22 19:05	HMB	TAL CAN
Total/NA	Analysis	8260B SIM		1	517921	02/11/22 22:43	CS	TAL CAN

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-162587-1

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			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
Iowa	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	12-21-23
Oregon	NELAP	4062	02-23-22
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

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

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TestAmerica

Chain of Custody Record

Client Contact	Regulatory program: DW	NPDES - BCBA		
Commony Name: Arcadis		NCNA		Test America Laboratories Inc
Company Name: Arcadis Address: 28550 Cabot Drive. Suite 500	Client Project Manager: Kris Hinskey	Site Contact: Julia McClafferty	Lab Contact: Mike DelMonico	COC No:
THE COLUMN THE PROPERTY OF THE	Telephone: 248-994-2240	Telephone: 734-644-5131	Telephone: 330-497-9396	
City/State/LAp: Novi, MI, 483//	Email: kristoffer.hinskev@arcadis.com	Analysis Turnaround Time	Analyses	For lab use only
Phone: 248-994-2240)			
Project Name: Ford LTP Off-Site	Sampler Name:	TAL if different from below 3 weeks		Walk-in client
Project Number: 30080642.402.04	Method of Shipthent/Carrier:	1 week	8	Sampanis Sana
PO # 30080642,402.04	Shipping/Tracking No:	/ Y) əlç	928 3	Job/SDG No:
	Matrix	D=91i2	, 2-DC 60B 60B 60B	
Sample Identification	Sample Date Sample Time Air Scolid Air	1'1-DCE Combos Combos Combos Compos C	cis-1,2-l Trans-1 PCE 82i TCE 82i	Sample Specific Notes / Special Instructions:
TRIP BLANK $_{-} \circ arepsilon_{arepsilon}$	/ / / / / / / / / / / / / / / / / / /	X	×××××××××××××××××××××××××××××××××××××××	1 Trip Blank
CCC CC SCA	×	7	> > > > > > > > > > > > > > > > > > > >	3 VOAs for 8260B
		24	240-162587 Chain of Custody	
Possible Hazard Identification Non-Hazard Flammable Skin Irritant	ritant Poison B Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return to Client Disposal By Lab Archive For Mo	ples are retained longer than 1 month) Archive For Months	
Special Instructions/QC Requirements & Comments: Sample Address. 3485 C 5+0/1)d 15 M 5+ Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.				
Relinquished by:		1657 Received by: Colc)	Storage Company Arcelis	Date Time: (2)
Relinquished by: O STOYCLOR	Company: Date/Time:	1315 Received by	Company	8
Relinguished by:	Eurch in S Date-Time: 32-CF 33		Company	Date/Time:
POWO Transfer absorbed in All dakes assessed				

"BZ/UUS, I estAmenca Laboratories, INC, All rights reserved.
| estAmenca & Design "" are trademants of TestAmenca Laboratores, I

Eurofins TestAmerica Canton Sample Receipt Form/Narrative Canton Facility	Login #:_	6258+
Angelia Committee	Cooler un	nacked by:
Client Arcadi Site Name Cooler Received on 2-10-22 Opened on 2-10-2	Bran	•
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier		3/01/
	Other	
Receipt After-hours: Drop-off Date/Time Storage Location		
TestAmerica Cooler # Foam Box Client Cooler Box Other		
Packing material used: Rubble 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 +0.1 °C) Observed Cooler Temp. See Multiple Cooler For °C Corrected Cooler Temp.		00
IR GUN#IR-15 (CF +0.1°C) Observed Cooler Temp. °C Corrected Cooler I		°C °C
	7	_ C
	No No	Tests that are not
-Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes	No NA	checked for pH by
-Were tamper/custody seals on the bothle(s) of bothle kits (ELFigMeFig)? -Were tamper/custody seals intact and uncompromised? Yes		Receiving:
3. Shippers' packing slip attached to the cooler(s)?		VOAs
4. Did custody papers accompany the sample(s)?		Oil and Grease
5. Were the custody papers relinquished & signed in the appropriate place?	. #	TOC
) No	
7. Did all bottles arrive in good condition (Unbroken)?	,	
	No	
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sa		rab/comb(YN)?
	No	(J. 1)
	No	
	No	
If yes, Questions 13-17 have been checked at the originating laboratory.		
		H Strip Lot# <u>HC157842</u>
	No U	
	No NA	
	No	
17. Was a LL Hg or Me Hg trip blank present?	NO	
Contacted PM by via Verbal V	oice Mail Oth	ег
Concerning		
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page	Samples	
16. CHAIN OF CUSTOD'I & SAMIFLE DISCREFANCIES - additional next page	Samples prod	cessed by:
10. CANCELE CONDITION		
19. SAMPLE CONDITION Sample(s) were received after the recommended holdi	ing time had as	rmino d
Sample(s) were received after the recommended finding		
Sample(s) were received with bubble >6 mm i		
20. SAMPLE PRESERVATION		
Sample(s) were fur	ther preserved	in the laboratory.
Sample(s) were fur Time preserved:Preservative(s) added/Lot number(s):	,	
VOA Sample Preservation - Date/Time VOAs Frozen:		

WI-NC-099

т

Login#: 162587

0:-1 5			Canton Sample Recei		
Cooler De (Cir		IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
Client	Box Other	IR-14 IR-15	40	4.1	Wet Ice Blue Ice Dry Ic
Client	Box Other	IR-14-IR-15	1-8	1-9	Wet ice Blue ice Dry ic Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client	Box Other	IR-14 IR-15			Wet ice Blue ice Dry ic Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None Wet Ice Blue Ice Dry Ic
TA Client	Box Other	IR-14 IR-15			Wet ice Blue ice Dry ic Water None Wet ice Blue ice Dry ic
TA Client	Box Other	IR-14 IR-15			Water None Wet Ice Blue Ice Dry Ic
TA Client	Box Other	IR-14 IR-15			Water None Wet ice Blue ice Dry ic
TA Client	Box Other	IR-14 IR-15			Water None Wet Ice Blue Ice Dry Ic
TA Client TA Client	Box Other Box Other	IR-14 IR-15			Water None Wet Ice Blue Ice Dry Ic
TA Client	Box Other	IR-14 IR-15			Water None Wet ice Blue ice Dry ice
TA Client	Box Other	IR-14 IR-15			Water None Wet ice Blue ice Dry ic
TA Client	Box Other	IR-14 IR-15			Water None Wet Ice Blue Ice Dry Ice
TA Client	Box Other	IR-14 IR-15			Water None Wet Ice Blue Ice Dry Ice
TA Client	Box Other	IR-14 IR-15			Water None Wet Ice Blue Ice Dry Ice Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client	Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client	Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client	Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client	Box Other	IR-14 IR-15		☐ See Ter	Wet ice Blue ice Dry ice Water None mperature Excursion Form

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

DATA VERIFICATION REPORT



February 24, 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: 162587-1

Sample date: 2022-02-07

Report received by CADENA: 2022-02-24

Initial Data Verification completed by CADENA: 2022-02-24

Number of Samples:2

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA 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: 162587-1

		Sample Name: Lab Sample ID: Sample Date:	2/7/2022				MW-110S_020722 2401625872 2/7/2022			
			- I.	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 # 240-162587-1

CADENA Verification Report: 2022-02-24

Analyses Performed By:

TestAmerica North Canton, Ohio

Report # 44679R Review Level: Tier III Project: 30080642.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-162587-1 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	Lab ID	Matrix Date		Parent Sample	voc	VOC SIM	
TRIP BLANK_05	240-162587-1	Water	02/07/2022		Х		
MW-110S_020722	240-162587-2	Water	02/07/2022		X	X	

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Reported		Performance Acceptable		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		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 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.

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

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

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260B/8260B-SIM	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)		Acceptable Yes		
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		X	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	X				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		Х		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 03, 2022

PEER REVIEW: Andrew Korycinski

DATE: March 8, 2022

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

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02/24/2022



Chain of Custody Record

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TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 Client Contact Regulatory program: □ DW ■ NPDES ☐ RCRA ☐ Other Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Julia McClafferty Lab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 734-644-5131 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 1 of COCs Email: kristoffer.hinskey@arcadis.com **Analysis Turnaround Time** Analyses For lab use only Phone: 248-994-2240 Walk-in client TAT if different from below Sampler Name: Project Name: Ford LTP Off-Site 3 weeks Gray Shafer
Method of Shipment/Carrier: ✓ 2 weeks 10 day Lab sampling Project Number: 30080642.402.04 1 week 1,4-Dioxane 8260B SIM Composite=C / Grab=G 2 days Frans-1,2-DCE 8260B Vinyl Chloride 8260B cis-1,2-DCE 8260B PO # 30080642.402.04 Shipping/Tracking No: 1 day Job/SDG No: 1,1-DCE 8260B Matrix Containers & Preservatives **FCE 8260B** Sample Specific Notes / Unpres Other: HN03 NaOH Solid Special Instructions: НСІ Sample Date | Sample Time Sample Identification TRIP BLANK_ O.5 Χ Χ Χ Χ Χ X 1 Trip Blank 02 3 VOAs for 8260B MW-1105.020722 X 4:3 X 3 VOAs for 8260B SIM Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Special Instructions/QC Requirements & Comments:

Sample Address: 34850 standish St

Flammable

Submit all results through Cadena at jtomalia@cadenaco.com, Cadena #E203631

Skin Irritant

Poison B

Arcadis

Unknown

182/08

Level IV Reporting requested.

Non-Hazard

Relinquished by:

Relinguished by Date/Time: Date/Time: NOVI COLD STORCICAL 219122 17-4-22 Date/Time: Date/Time: Received to haboratory by: 2-4-72 1100

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Return to Client

Disposal By Lab

Cold Storage

Arcache

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-162587-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_05

Date Collected: 02/07/22 00:00 Date Received: 02/10/22 11:00

Lab Sample ID: 240-162587-1

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			02/11/22 18:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/11/22 18:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/11/22 18:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/11/22 18:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/11/22 18:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/11/22 18:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137			-		02/11/22 18:43	1
4-Bromofluorobenzene (Surr)	100		56 ₋ 136					02/11/22 18:43	1
Toluene-d8 (Surr)	93		78 - 122					02/11/22 18:43	1
Dibromofluoromethane (Surr)	94		73 - 120					02/11/22 18:43	1

Client Sample ID: MW-110S_020722

Date Collected: 02/07/22 14:31

Lab Sample ID: 240-162587-2

Matrix: Water

Date Received: 02/10/22 11:								Watrix	. wate
Method: 8260B SIM - Volat	ile Organic Co	mpounds ((GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/11/22 22:43	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	83		66 - 120			-		02/11/22 22:43	
Method: 8260B - Volatile O	rganic Compo	unds (GC/	MS)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/11/22 19:05	
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/11/22 19:05	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/11/22 19:05	
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/11/22 19:05	
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/11/22 19:05	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/11/22 19:05	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	97		62 - 137			-		02/11/22 19:05	-
4-Bromofluorobenzene (Surr)	102		56 ₋ 136					02/11/22 19:05	•
Toluene-d8 (Surr)	94		78 - 122					02/11/22 19:05	•
Dibromofluoromethane (Surr)	97		73 - 120					02/11/22 19:05	