

ANALYTICAL REPORT

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North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-135076-1
Client Project/Site: Ford LTP Off-Site

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



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Definitions/Glossary

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

Job ID: 240-135076-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
α	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

Case Narrative

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

Job ID: 240-135076-1

Job ID: 240-135076-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP Off-Site

Report Number: 240-135076-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Eurofins TestAmerica, Canton attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

RECEIPT

The samples were received on 8/15/2020 10:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.4° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TRIP BLANK (240-135076-1) and MW-132S_081320 (240-135076-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/26/2020.

The continuing calibration verification (CCV) for analytical batch 448779 exceeded control criteria for 1,1-Dichloroethene. The samples associated with this CCV were non-detect for the affected analyte. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compound was detected; therefore the data has been reported. No further corrective action was required: TRIP BLANK (240-135076-1) and MW-132S_081320 (240-135076-2).

1,1-Dichloroethene and Vinyl chloride failed the recovery criteria low for the MS of sample 240-134884-3 in batch 240-448779.

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

VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Sample MW-132S_081320 (240-135076-2) was analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The sample was analyzed on 08/24/2020.

Case Narrative

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

Job ID: 240-135076-1

Job ID: 240-135076-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

No 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 U.S., Inc.
Project/Site: Ford LTP Off-Site

Job ID: 240-135076-1

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 TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



Sample Summary

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

Job ID: 240-135076-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-135076-1	TRIP BLANK	Water	08/13/20 00:00	08/15/20 10:30	
240-135076-2	MW-132S_081320	Water	08/13/20 08:50	08/15/20 10:30	

- 1
- 2
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- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

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

Job ID: 240-135076-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-135076-1

No Detections.

Client Sample ID: MW-132S_081320

Lab Sample ID: 240-135076-2

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Client Sample Results

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

Job ID: 240-135076-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-135076-1

Date Collected: 08/13/20 00:00

Matrix: Water

Date Received: 08/15/20 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/26/20 17:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.38	ug/L			08/26/20 17:28	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/26/20 17:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.43	ug/L			08/26/20 17:28	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/26/20 17:28	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/26/20 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		75 - 130		08/26/20 17:28	1
4-Bromofluorobenzene (Surr)	84		47 - 134		08/26/20 17:28	1
Toluene-d8 (Surr)	94		69 - 122		08/26/20 17:28	1
Dibromofluoromethane (Surr)	85		78 - 129		08/26/20 17:28	1

Client Sample Results

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

Job ID: 240-135076-1

Client Sample ID: MW-132S_081320

Lab Sample ID: 240-135076-2

Date Collected: 08/13/20 08:50

Matrix: Water

Date Received: 08/15/20 10:30

Method: 8260B SIM - Volatile Organic Compounds (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			08/24/20 09:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		70 - 133		08/24/20 09:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/26/20 17:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.38	ug/L			08/26/20 17:50	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/26/20 17:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.43	ug/L			08/26/20 17:50	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/26/20 17:50	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/26/20 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 130		08/26/20 17:50	1
4-Bromofluorobenzene (Surr)	87		47 - 134		08/26/20 17:50	1
Toluene-d8 (Surr)	96		69 - 122		08/26/20 17:50	1
Dibromofluoromethane (Surr)	90		78 - 129		08/26/20 17:50	1

Surrogate Summary

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

Job ID: 240-135076-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	TOL	DBFM
		(75-130)	(47-134)	(69-122)	(78-129)
240-134884-C-3 MS	Matrix Spike	84	98	101	86
240-134884-C-3 MSD	Matrix Spike Duplicate	85	100	102	87
240-135076-1	TRIP BLANK	92	84	94	85
240-135076-2	MW-132S_081320	96	87	96	90
LCS 240-448779/4	Lab Control Sample	84	99	100	86
MB 240-448779/7	Method Blank	90	85	97	83

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)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA
		(70-133)
240-135076-2	MW-132S_081320	88
240-135082-B-4 MS	Matrix Spike	93
240-135082-B-4 MSD	Matrix Spike Duplicate	90
LCS 240-448340/4	Lab Control Sample	87
MB 240-448340/5	Method Blank	86

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-135076-1

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

Lab Sample ID: MB 240-448779/7
Matrix: Water
Analysis Batch: 448779

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/26/20 13:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.38	ug/L			08/26/20 13:05	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/26/20 13:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.43	ug/L			08/26/20 13:05	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/26/20 13:05	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/26/20 13:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		75 - 130		08/26/20 13:05	1
4-Bromofluorobenzene (Surr)	85		47 - 134		08/26/20 13:05	1
Toluene-d8 (Surr)	97		69 - 122		08/26/20 13:05	1
Dibromofluoromethane (Surr)	83		78 - 129		08/26/20 13:05	1

Lab Sample ID: LCS 240-448779/4
Matrix: Water
Analysis Batch: 448779

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	8.71		ug/L		87	73 - 129
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	75 - 124
Tetrachloroethene	10.0	11.5		ug/L		115	70 - 125
trans-1,2-Dichloroethene	10.0	9.93		ug/L		99	74 - 130
Trichloroethene	10.0	9.38		ug/L		94	71 - 121
Vinyl chloride	10.0	8.97		ug/L		90	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		75 - 130
4-Bromofluorobenzene (Surr)	99		47 - 134
Toluene-d8 (Surr)	100		69 - 122
Dibromofluoromethane (Surr)	86		78 - 129

Lab Sample ID: 240-134884-C-3 MS
Matrix: Water
Analysis Batch: 448779

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	5.0	U F1	50.0	31.5	F1	ug/L		63	64 - 132
cis-1,2-Dichloroethene	24		50.0	68.5		ug/L		89	68 - 121
Tetrachloroethene	5.0	U	50.0	42.9		ug/L		86	52 - 129
trans-1,2-Dichloroethene	5.0	U	50.0	40.6		ug/L		81	69 - 126
Trichloroethene	5.0	U	50.0	37.3		ug/L		75	56 - 124
Vinyl chloride	73	F1	50.0	93.4	F1	ug/L		40	49 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		75 - 130
4-Bromofluorobenzene (Surr)	98		47 - 134
Toluene-d8 (Surr)	101		69 - 122

QC Sample Results

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

Job ID: 240-135076-1

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

Lab Sample ID: 240-134884-C-3 MS
Matrix: Water
Analysis Batch: 448779

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

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	86		78 - 129

Lab Sample ID: 240-134884-C-3 MSD
Matrix: Water
Analysis Batch: 448779

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	5.0	U F1	50.0	38.3		ug/L		77	64 - 132	19	35
cis-1,2-Dichloroethene	24		50.0	69.2		ug/L		91	68 - 121	1	35
Tetrachloroethene	5.0	U	50.0	51.1		ug/L		102	52 - 129	17	35
trans-1,2-Dichloroethene	5.0	U	50.0	44.7		ug/L		89	69 - 126	10	35
Trichloroethene	5.0	U	50.0	41.3		ug/L		83	56 - 124	10	35
Vinyl chloride	73	F1	50.0	109		ug/L		71	49 - 136	15	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		75 - 130
4-Bromofluorobenzene (Surr)	100		47 - 134
Toluene-d8 (Surr)	102		69 - 122
Dibromofluoromethane (Surr)	87		78 - 129

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

Lab Sample ID: MB 240-448340/5
Matrix: Water
Analysis Batch: 448340

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/24/20 03:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		70 - 133		08/24/20 03:41	1

Lab Sample ID: LCS 240-448340/4
Matrix: Water
Analysis Batch: 448340

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	10.0	9.99		ug/L		100	80 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		70 - 133

Lab Sample ID: 240-135082-B-4 MS
Matrix: Water
Analysis Batch: 448340

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.0	U	10.0	10.0		ug/L		100	46 - 170

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-135076-1

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	93		70 - 133

Lab Sample ID: 240-135082-B-4 MSD
 Matrix: Water
 Analysis Batch: 448340

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	2.0	U	10.0	10.2		ug/L		102	46 - 170	2	26

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	90		70 - 133



QC Association Summary

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

Job ID: 240-135076-1

GC/MS VOA

Analysis Batch: 448340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135076-2	MW-132S_081320	Total/NA	Water	8260B SIM	
MB 240-448340/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-448340/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-135082-B-4 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-135082-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 448779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135076-1	TRIP BLANK	Total/NA	Water	8260B	
240-135076-2	MW-132S_081320	Total/NA	Water	8260B	
MB 240-448779/7	Method Blank	Total/NA	Water	8260B	
LCS 240-448779/4	Lab Control Sample	Total/NA	Water	8260B	
240-134884-C-3 MS	Matrix Spike	Total/NA	Water	8260B	
240-134884-C-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Lab Chronicle

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

Job ID: 240-135076-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-135076-1

Date Collected: 08/13/20 00:00

Matrix: Water

Date Received: 08/15/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	448779	08/26/20 17:28	LEE	TAL CAN

Client Sample ID: MW-132S_081320

Lab Sample ID: 240-135076-2

Date Collected: 08/13/20 08:50

Matrix: Water

Date Received: 08/15/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	448779	08/26/20 17:50	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	448340	08/24/20 09:54	SAM	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

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

Job ID: 240-135076-1

Laboratory: Eurofins TestAmerica, 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	02-23-21
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-20 *
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21
Kentucky (WW)	State	KY98016	12-31-20
Minnesota	NELAP	OH00048	12-31-20
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-20
Texas	NELAP	T104704517-18-10	08-31-20
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-20
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

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



3-5/14-4

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

Client Contact Company Name: Arcadis Address: 28550 Cabot Drive, Suite 500 City/State/Zip: Novi, MI, 48377 Phone: 248-994-2240 Project Name: Ford LTP Off-Site Project Number: 30050315.402.04 PO # 30050315.402.04		Regulatory program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other	
Client Project Manager: Kris Hinskey Telephone: 248-994-2240 Email: kristoffer.hinskey@arcadis.com		Site Contact: Julia McClafferty Telephone: 330-497-0396	
Sampler Name: Emma Witherspoon		Analysis Turnaround Time TAT if different from below: 10 day <input type="checkbox"/> 3 weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day <input type="checkbox"/>	
Method of Shipment/Carrier: Shipping/Tracking No:		Analyses	
Sample Identification		Filtered Sample (Y/N) <input type="checkbox"/> Composite=C/Grab=G <input type="checkbox"/>	
Sample Date: 8/13/20 Sample Time: 850		1,1-DCE 8260B <input checked="" type="checkbox"/> X cis-1,2-DCE 8260B <input checked="" type="checkbox"/> X Trans-1,2-DCE 8260B <input checked="" type="checkbox"/> X PCE 8260B <input checked="" type="checkbox"/> X TCE 8260B <input checked="" type="checkbox"/> X Vinyl Chloride 8260B <input checked="" type="checkbox"/> X 1,4-Dioxane 8260B SIM <input checked="" type="checkbox"/> X	
TRIP BLANK MW-1325-081320		Special Specific Notes / Special Instructions: 1 Trip blank 3 UOAs for 8260B 3 UOAs for 8260B SIM	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			
Special Instructions/QC Requirements & Comments: Submit all results through Cadena at jromalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.			
Relinquished by: <i>Emma Witherspoon</i> Date/Time: 8/13/20 / 1430		Received by: <i>Arcadis Cold Storage</i> Date/Time: 8/14/20 / 1500	
Relinquished by: <i>Julia McClafferty</i> Date/Time: 8/14/20 / 1570		Received by: <i>ETA</i> Date/Time: 8/15/20 / 1030	
Relinquished by: <i>[Signature]</i> Date/Time: 8/15/20 / 1030		Received by: <i>ETA</i> Date/Time: 8/15/20 / 1030	



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Eurofins TestAmerica Canton Sample Receipt Form/Narrative

Login # : 135076

Canton Facility

Client Arcadis Site Name Cooler unpacked by
Cooler Received on 8-15-20 Opened on 8-15-20
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # FA Foam Box Client Cooler Box Other
Packing material used: Bubble Wrap Foam Elastic Bag None Other
COOLANT: Wet Ice Blue Ice Dry Ice Water None

- 1. Cooler temperature upon receipt
IR GUN# IR-10 (CF +0.7 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C
IR GUN #IR-11 (CF +0.9°C) Observed Cooler Temp. 3.2°C Corrected Cooler Temp. 4.9°C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 2 Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
-Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC911298
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # NA Yes No
16. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving: VOAs Oil and Grease TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

18. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.
Time preserved: Preservative(s) added/Lot number(s):
VOA Sample Preservation - Date/Time VOAs Frozen: