

ANALYTICAL REPORT

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

Laboratory Job ID: 240-160152-1
Client Project/Site: Ford LTP - Off-Site

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

Attn: Kristoffer Hinskey



Authorized for release by:
12/3/2021 3:51:13 PM

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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: 240-160152-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD 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: 240-160152-1

Job ID: 240-160152-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative
240-160152-1

Comments

No additional comments.

Receipt

The samples were received on 11/16/2021 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.9° 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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- 13
- 14

Method Summary

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

Job ID: 240-160152-1

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

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- 5
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- 10
- 11
- 12
- 13
- 14

Sample Summary

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

Job ID: 240-160152-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-160152-1	TRIP BLANK_123	Water	11/11/21 00:00	11/16/21 10:15
240-160152-2	MW-78_111121	Water	11/11/21 11:01	11/16/21 10:15
240-160152-3	MW-78S_111121	Water	11/11/21 11:51	11/16/21 10:15

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

Detection Summary

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

Job ID: 240-160152-1

Client Sample ID: TRIP BLANK_123

Lab Sample ID: 240-160152-1

No Detections.

Client Sample ID: MW-78_111121

Lab Sample ID: 240-160152-2

No Detections.

Client Sample ID: MW-78S_111121

Lab Sample ID: 240-160152-3

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: 240-160152-1

Client Sample ID: TRIP BLANK_123

Lab Sample ID: 240-160152-1

Date Collected: 11/11/21 00:00

Matrix: Water

Date Received: 11/16/21 10:15

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	0.49	ug/L			11/20/21 06:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/21 06:34	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/21 06:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/21 06:34	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/21 06:34	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/21 06:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137		11/20/21 06:34	1
4-Bromofluorobenzene (Surr)	77		56 - 136		11/20/21 06:34	1
Toluene-d8 (Surr)	114		78 - 122		11/20/21 06:34	1
Dibromofluoromethane (Surr)	101		73 - 120		11/20/21 06:34	1

Client Sample Results

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

Job ID: 240-160152-1

Client Sample ID: MW-78_111121

Lab Sample ID: 240-160152-2

Date Collected: 11/11/21 11:01

Matrix: Water

Date Received: 11/16/21 10:15

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			11/19/21 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		66 - 120		11/19/21 03:09	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	0.49	ug/L			11/20/21 06:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/21 06:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/21 06:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/21 06:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/21 06:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/21 06:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137		11/20/21 06:57	1
4-Bromofluorobenzene (Surr)	72		56 - 136		11/20/21 06:57	1
Toluene-d8 (Surr)	100		78 - 122		11/20/21 06:57	1
Dibromofluoromethane (Surr)	94		73 - 120		11/20/21 06:57	1

Client Sample Results

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

Job ID: 240-160152-1

Client Sample ID: MW-78S_111121

Lab Sample ID: 240-160152-3

Date Collected: 11/11/21 11:51

Matrix: Water

Date Received: 11/16/21 10:15

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			11/19/21 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		66 - 120					11/19/21 03:34	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	0.49	ug/L			11/20/21 07:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/21 07:19	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/21 07:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/21 07:19	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/21 07:19	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/21 07:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137					11/20/21 07:19	1
4-Bromofluorobenzene (Surr)	69		56 - 136					11/20/21 07:19	1
Toluene-d8 (Surr)	105		78 - 122					11/20/21 07:19	1
Dibromofluoromethane (Surr)	95		73 - 120					11/20/21 07:19	1

Surrogate Summary

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

Job ID: 240-160152-1

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
		(62-137)	(56-136)	(78-122)	(73-120)
240-160150-B-2 MS	Matrix Spike	99	85	110	90
240-160150-D-2 MSD	Matrix Spike Duplicate	104	88	122	96
240-160152-1	TRIP BLANK_123	109	77	114	101
240-160152-2	MW-78_111121	100	72	100	94
240-160152-3	MW-78S_111121	102	69	105	95
LCS 240-513905/4	Lab Control Sample	104	89	118	97
MB 240-513905/6	Method Blank	99	73	109	92

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
		(66-120)
240-159739-G-3 MS	Matrix Spike	74
240-159739-M-3 MSD	Matrix Spike Duplicate	75
240-160152-2	MW-78_111121	74
240-160152-3	MW-78S_111121	76
LCS 240-513700/4	Lab Control Sample	75
MB 240-513700/5	Method Blank	77

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-160152-1

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

Lab Sample ID: MB 240-513905/6
Matrix: Water
Analysis Batch: 513905

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/20/21 03:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/21 03:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/21 03:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/21 03:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/21 03:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/21 03:58	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	99		62 - 137		11/20/21 03:58	1
4-Bromofluorobenzene (Surr)	73		56 - 136		11/20/21 03:58	1
Toluene-d8 (Surr)	109		78 - 122		11/20/21 03:58	1
Dibromofluoromethane (Surr)	92		73 - 120		11/20/21 03:58	1

Lab Sample ID: LCS 240-513905/4
Matrix: Water
Analysis Batch: 513905

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1-Dichloroethene	10.0	10.9		ug/L		109	63 - 134
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	77 - 123
Tetrachloroethene	10.0	10.3		ug/L		103	76 - 123
trans-1,2-Dichloroethene	10.0	10.6		ug/L		106	75 - 124
Trichloroethene	10.0	8.96		ug/L		90	70 - 122
Vinyl chloride	10.0	11.0		ug/L		110	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	104		62 - 137
4-Bromofluorobenzene (Surr)	89		56 - 136
Toluene-d8 (Surr)	118		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: 240-160150-B-2 MS
Matrix: Water
Analysis Batch: 513905

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

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	1.0	U	10.0	7.96		ug/L		80	56 - 135
cis-1,2-Dichloroethene	1.0	U F2	10.0	8.59		ug/L		86	66 - 128
Tetrachloroethene	1.0	U	10.0	7.18		ug/L		72	62 - 131
trans-1,2-Dichloroethene	1.0	U	10.0	8.27		ug/L		83	56 - 136
Trichloroethene	1.0	U	10.0	6.70		ug/L		67	61 - 124
Vinyl chloride	1.0	U	10.0	8.91		ug/L		89	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	85		56 - 136
Toluene-d8 (Surr)	110		78 - 122

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-160152-1

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

Lab Sample ID: 240-160150-B-2 MS
Matrix: Water
Analysis Batch: 513905

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	90		73 - 120

Lab Sample ID: 240-160150-D-2 MSD
Matrix: Water
Analysis Batch: 513905

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	1.0	U	10.0	9.12		ug/L		91	56 - 135	14	26
cis-1,2-Dichloroethene	1.0	U F2	10.0	10.1	F2	ug/L		101	66 - 128	16	14
Tetrachloroethene	1.0	U	10.0	8.59		ug/L		86	62 - 131	18	20
trans-1,2-Dichloroethene	1.0	U	10.0	9.32		ug/L		93	56 - 136	12	15
Trichloroethene	1.0	U	10.0	7.73		ug/L		77	61 - 124	14	15
Vinyl chloride	1.0	U	10.0	9.29		ug/L		93	43 - 157	4	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		62 - 137
4-Bromofluorobenzene (Surr)	88		56 - 136
Toluene-d8 (Surr)	122		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

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

Lab Sample ID: MB 240-513700/5
Matrix: Water
Analysis Batch: 513700

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			11/18/21 19:41	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dichloroethane-d4 (Surr)	77		66 - 120		11/18/21 19:41	1			

Lab Sample ID: LCS 240-513700/4
Matrix: Water
Analysis Batch: 513700

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	10.4		ug/L		104	80 - 122

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	75		66 - 120

Lab Sample ID: 240-159739-G-3 MS
Matrix: Water
Analysis Batch: 513700

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 F1	10.0	10.4		ug/L		104	51 - 153

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-160152-1

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)	74		66 - 120

Lab Sample ID: 240-159739-M-3 MSD
 Matrix: Water
 Analysis Batch: 513700

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

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
1,4-Dioxane	2.0	U F1	10.0	10.6		ug/L		106	51 - 153	2	16

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	75		66 - 120

QC Association Summary

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

Job ID: 240-160152-1

GC/MS VOA

Analysis Batch: 513700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-160152-2	MW-78_111121	Total/NA	Water	8260B SIM	
240-160152-3	MW-78S_111121	Total/NA	Water	8260B SIM	
MB 240-513700/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-513700/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-159739-G-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-159739-M-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 513905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-160152-1	TRIP BLANK_123	Total/NA	Water	8260B	
240-160152-2	MW-78_111121	Total/NA	Water	8260B	
240-160152-3	MW-78S_111121	Total/NA	Water	8260B	
MB 240-513905/6	Method Blank	Total/NA	Water	8260B	
LCS 240-513905/4	Lab Control Sample	Total/NA	Water	8260B	
240-160150-B-2 MS	Matrix Spike	Total/NA	Water	8260B	
240-160150-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Lab Chronicle

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

Job ID: 240-160152-1

Client Sample ID: TRIP BLANK_123

Lab Sample ID: 240-160152-1

Date Collected: 11/11/21 00:00

Matrix: Water

Date Received: 11/16/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	513905	11/20/21 06:34	LEE	TAL CAN

Client Sample ID: MW-78_111121

Lab Sample ID: 240-160152-2

Date Collected: 11/11/21 11:01

Matrix: Water

Date Received: 11/16/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	513905	11/20/21 06:57	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	513700	11/19/21 03:09	CS	TAL CAN

Client Sample ID: MW-78S_111121

Lab Sample ID: 240-160152-3

Date Collected: 11/11/21 11:51

Matrix: Water

Date Received: 11/16/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	513905	11/20/21 07:19	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	513700	11/19/21 03:34	CS	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: 240-160152-1

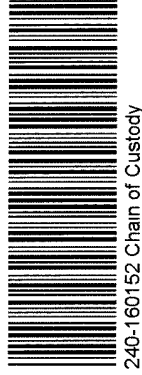
Laboratory: Eurofins TestAmerica, Canton

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	02-23-22
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	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-22
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-18-10	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

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

Client Contact Company Name Arcadis		Regulatory program DW NPDES RCRA Other		TestAmerica Laboratories, Inc. COC No	
Address 28550 Cabot Drive, Suite 500		Lab Contact Mike DelMonico		1 of 1 COCS	
City/State/Zip: Novi, MI, 48377		Telephone 330-497-9396		For lab use only	
Phone 248-994-2240		Site Contact: Julia McClafferty		Walk-in client	
Project Name Ford LTP Off-Site		Telephone 734-644-5131		Lab sampling	
Project Number 30080642.402.04		Analysis Turnaround Time		Job/SDG No.	
PO # 30080642.402.04		TAT if different from below 10 day 3 weeks 1 week 2 weeks 2 days 1 day 1 day		Sample Specific Notes / Special Instructions	
Sample Identification		Containers & Preservatives		Filtered Sample (Y/N)	
Sample Date		Sample Time		Composite=C / Grab=G	
Sample Date		Sample Time		1-DCE 8260B	
Sample Date		Sample Time		cis-1,2-DCE 8260B	
Sample Date		Sample Time		Trans-1,2-DCE 8260B	
Sample Date		Sample Time		PCE 8260B	
Sample Date		Sample Time		TCE 8260B	
Sample Date		Sample Time		Vinyl Chloride 8260B	
Sample Date		Sample Time		4-Dioxane 8260B SIM	
Sample Date		Sample Time		1 Trip Blank	
Sample Date		Sample Time		3 VOAs for 8260B	
Sample Date		Sample Time		3 VOAs for 8260B SIM	



Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Return to Client Disposal By Lab Archive For ___ Months

Special Instructions/QC Requirements & Comments		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Submit all results through Cadena at jtomalia@cadenaco.com Cadena #E203631		Return to Client Disposal By Lab Archive For ___ Months	
Level IV Reporting requested		Level IV Reporting requested	
Relinquished by: <i>Gary Schefey</i>		Received by: <i>Nori Gold Storage</i>	
Relinquished by: <i>Gary Schefey</i>		Received by: <i>ETA</i>	
Relinquished by: <i>Gary M</i>		Received in Laboratory by: <i>Jammy Page</i>	
Company: Arcadis	Date/Time: 11/13/21 1530	Company: Arcadis	Date/Time: 11/13/21 1530
Company: ARCADIS	Date/Time: 11/15/21	Company: ETA	Date/Time: 11/15/21
Company: ETA	Date/Time: 11/15/21	Company: ETA	Date/Time: 11-16-21 1015

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Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 160152

Client Arcadis Site Name _____
 Cooler Received on 11-16-21 Opened on 11-16-21
 FedEx. 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Cooler unpacked by:
Nancy Boer

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

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

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-14 (CF +0.1 °C) Observed Cooler Temp. 08 °C Corrected Cooler Temp. 09 °C
 IR GUN #IR-15 (CF +0.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1

Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/>
-Were the seals on the outside of the cooler(s) signed & dated?	Yes No NA
<input checked="" type="checkbox"/>	<input type="checkbox"/>
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes <input checked="" type="checkbox"/> No NA
<input checked="" type="checkbox"/>	<input type="checkbox"/>
-Were tamper/custody seals intact and uncompromised?	Yes No NA
<input checked="" type="checkbox"/>	<input type="checkbox"/>
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 (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
- If yes, Questions 13-17 have been checked at the originating laboratory
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC157842
14. Were VOAs on the COC? Yes No NA
15. Were air bubbles >6 mm in any VOA vials? Yes No NA
 ● ← Larger than this
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 60358 Yes No
17. 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 _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Samples processed by:

NO SIM on TB per corrected COC. One 11/16/21

19. 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)

20. 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. _____

eurofins

11:30 B
1774
1116

Part # 159469-434 NTWY EXP 07/22

ORIGIN ID:DEOA (810) 229-2763
SHIPPING DEPARTMENT
EUROFINS TESTAMERICA
10448 CITATION DRIVE
SUITE 200
BRIGHTON, MI 48116
UNITED STATES US

SHIP DATE: 15NOV21
ACTWGT: 49.15 LB
CAD: 0183192/CAFE3507

BILL RECIPIENT

TO ATTN: SAMPLE RECEIVING
EUROFINS TEST AMERICA NORTH CANTON
4101 SHUFFEL DRIVE NW

NORTH CANTON OH 44720

(330) 497-9396

REF:

DEPT:



FedEx
Express

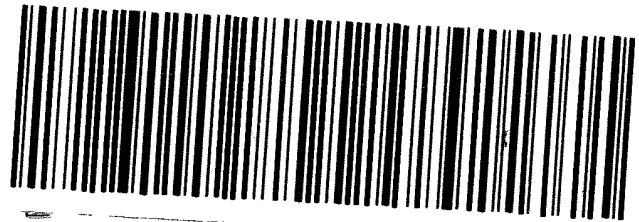


TRK# 4506 9518 1774
0201

TUE - 16 NOV 11:30A
PRIORITY OVERNIGHT

64 PHDA

44720
OH-US CLE



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