

ANALYTICAL REPORT

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

Laboratory Job ID: 240-149244-1
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:
5/28/2021 1:54:16 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: 240-149244-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
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: 240-149244-1

Job ID: 240-149244-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-149244-1

Comments

No additional comments.

Receipt

The samples were received on 5/12/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.6° C and 1.7° C.

GC/MS VOA

Method 8260B: The continuing calibration verification (CCV) associated with batch 486912 recovered above the upper control limit for Vinyl chloride and 1,1-Dichloroethene. The samples associated with this CCV were non-detect for the affected analytes; therefore, the data have been reported. The associated samples are impacted: TRIP BLANK_53 (240-149244-1) and MW-134S_051021 (240-149244-2).

Method 8260B SIM: Reanalysis of the following samples was performed outside of the analytical holding time to confirm original sample result : MW-134S-MS_051021 (240-149244-2[MS]) and MW-134S-MSD_051021 (240-149244-2[MSD]).

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

VOA Prep

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

Method Summary

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

Job ID: 240-149244-1

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: 240-149244-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-149244-1	TRIP BLANK_53	Water	05/10/21 00:00	05/12/21 08:00	
240-149244-2	MW-134S_051021	Water	05/10/21 12:40	05/12/21 08:00	

- 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: 240-149244-1

Client Sample ID: TRIP BLANK_53

Lab Sample ID: 240-149244-1

No Detections.

Client Sample ID: MW-134S_051021

Lab Sample ID: 240-149244-2

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: 240-149244-1

Client Sample ID: TRIP BLANK_53

Lab Sample ID: 240-149244-1

Date Collected: 05/10/21 00:00

Matrix: Water

Date Received: 05/12/21 08:00

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	0.19	ug/L			05/21/21 12:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/21/21 12:22	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/21/21 12:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/21/21 12:22	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/21/21 12:22	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/21/21 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		75 - 130		05/21/21 12:22	1
4-Bromofluorobenzene (Surr)	75		47 - 134		05/21/21 12:22	1
Toluene-d8 (Surr)	91		69 - 122		05/21/21 12:22	1
Dibromofluoromethane (Surr)	98		78 - 129		05/21/21 12:22	1

Client Sample Results

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

Job ID: 240-149244-1

Client Sample ID: MW-134S_051021

Lab Sample ID: 240-149244-2

Date Collected: 05/10/21 12:40

Matrix: Water

Date Received: 05/12/21 08:00

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			05/24/21 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		70 - 133		05/24/21 16:40	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	0.19	ug/L			05/21/21 12:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/21/21 12:44	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/21/21 12:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/21/21 12:44	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/21/21 12:44	1
Vinyl chloride	1.0	U F1	1.0	0.20	ug/L			05/21/21 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		75 - 130		05/21/21 12:44	1
4-Bromofluorobenzene (Surr)	76		47 - 134		05/21/21 12:44	1
Toluene-d8 (Surr)	94		69 - 122		05/21/21 12:44	1
Dibromofluoromethane (Surr)	97		78 - 129		05/21/21 12:44	1

Surrogate Summary

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

Job ID: 240-149244-1

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)
240-149244-1	TRIP BLANK_53	124	75	91	98
240-149244-2	MW-134S_051021	124	76	94	97
240-149244-2MS	MW-134S-MS_051021	109	97	100	89
240-149244-2MSD	MW-134S-MSD_051021	111	94	99	92
LCS 240-486912/4	Lab Control Sample	111	96	101	93
MB 240-486912/7	Method Blank	122	81	94	96

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)
240-149244-2	MW-134S_051021	87
240-149244-2MS	MW-134S-MS_051021	100
240-149244-2MSD	MW-134S-MSD_051021	96
LCS 240-487235/4	Lab Control Sample	81
LCS 240-487433/4	Lab Control Sample	91
MB 240-487235/5	Method Blank	82
MB 240-487433/5	Method Blank	95

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-149244-1

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

Lab Sample ID: MB 240-486912/7
Matrix: Water
Analysis Batch: 486912

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	0.19	ug/L			05/21/21 11:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/21/21 11:39	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/21/21 11:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/21/21 11:39	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/21/21 11:39	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/21/21 11:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		75 - 130		05/21/21 11:39	1
4-Bromofluorobenzene (Surr)	81		47 - 134		05/21/21 11:39	1
Toluene-d8 (Surr)	94		69 - 122		05/21/21 11:39	1
Dibromofluoromethane (Surr)	96		78 - 129		05/21/21 11:39	1

Lab Sample ID: LCS 240-486912/4
Matrix: Water
Analysis Batch: 486912

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	9.06		ug/L		91	73 - 129
cis-1,2-Dichloroethene	10.0	10.2		ug/L		102	75 - 124
Tetrachloroethene	10.0	10.2		ug/L		102	70 - 125
trans-1,2-Dichloroethene	10.0	10.0		ug/L		100	74 - 130
Trichloroethene	10.0	9.46		ug/L		95	71 - 121
Vinyl chloride	10.0	10.8		ug/L		108	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		75 - 130
4-Bromofluorobenzene (Surr)	96		47 - 134
Toluene-d8 (Surr)	101		69 - 122
Dibromofluoromethane (Surr)	93		78 - 129

Lab Sample ID: 240-149244-2MS
Matrix: Water
Analysis Batch: 486912

Client Sample ID: MW-134S-MS_051021
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	1.0	U	10.0	12.0		ug/L		120	64 - 132
cis-1,2-Dichloroethene	1.0	U	10.0	8.95		ug/L		89	68 - 121
Tetrachloroethene	1.0	U	10.0	9.03		ug/L		90	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	9.00		ug/L		90	69 - 126
Trichloroethene	1.0	U	10.0	8.18		ug/L		82	56 - 124
Vinyl chloride	1.0	U F1	10.0	11.2		ug/L		112	49 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		75 - 130
4-Bromofluorobenzene (Surr)	97		47 - 134
Toluene-d8 (Surr)	100		69 - 122

QC Sample Results

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

Job ID: 240-149244-1

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

Lab Sample ID: 240-149244-2MS
Matrix: Water
Analysis Batch: 486912

Client Sample ID: MW-134S-MS_051021
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	89		78 - 129

Lab Sample ID: 240-149244-2MSD
Matrix: Water
Analysis Batch: 486912

Client Sample ID: MW-134S-MSD_051021
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	8.53		ug/L		85	64 - 132	34	35
cis-1,2-Dichloroethene	1.0	U	10.0	9.53		ug/L		95	68 - 121	6	35
Tetrachloroethene	1.0	U	10.0	9.50		ug/L		95	52 - 129	5	35
trans-1,2-Dichloroethene	1.0	U	10.0	9.41		ug/L		94	69 - 126	4	35
Trichloroethene	1.0	U	10.0	8.60		ug/L		86	56 - 124	5	35
Vinyl chloride	1.0	U F1	10.0	14.8	F1	ug/L		148	49 - 136	28	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		75 - 130
4-Bromofluorobenzene (Surr)	94		47 - 134
Toluene-d8 (Surr)	99		69 - 122
Dibromofluoromethane (Surr)	92		78 - 129

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

Lab Sample ID: MB 240-487235/5
Matrix: Water
Analysis Batch: 487235

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			05/24/21 14:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		70 - 133		05/24/21 14:36	1

Lab Sample ID: LCS 240-487235/4
Matrix: Water
Analysis Batch: 487235

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	10.5		ug/L		105	80 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	81		70 - 133

Lab Sample ID: MB 240-487433/5
Matrix: Water
Analysis Batch: 487433

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			05/25/21 14:21	1

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-149244-1

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

<u>Surrogate</u>	<u>MB MB</u> <u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
1,2-Dichloroethane-d4 (Surr)	95		70 - 133		05/25/21 14:21	1

Lab Sample ID: LCS 240-487433/4
Matrix: Water
Analysis Batch: 487433

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

<u>Analyte</u>	<u>Spike Added</u>	<u>LCS Result</u>	<u>LCS Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec. Limits</u>
1,4-Dioxane	10.0	10.5		ug/L		105	80 - 135

<u>Surrogate</u>	<u>LCS LCS</u> <u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
1,2-Dichloroethane-d4 (Surr)	91		70 - 133

Lab Sample ID: 240-149244-2MS
Matrix: Water
Analysis Batch: 487433

Client Sample ID: MW-134S-MS_051021
Prep Type: Total/NA

<u>Analyte</u>	<u>Sample Result</u>	<u>Sample Qualifier</u>	<u>Spike Added</u>	<u>MS Result</u>	<u>MS Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec. Limits</u>
1,4-Dioxane	2.0	U H	10.0	10.2	H	ug/L		102	46 - 170

<u>Surrogate</u>	<u>MS MS</u> <u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
1,2-Dichloroethane-d4 (Surr)	100		70 - 133

Lab Sample ID: 240-149244-2MSD
Matrix: Water
Analysis Batch: 487433

Client Sample ID: MW-134S-MSD_051021
Prep Type: Total/NA

<u>Analyte</u>	<u>Sample Result</u>	<u>Sample Qualifier</u>	<u>Spike Added</u>	<u>MSD Result</u>	<u>MSD Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec. Limits</u>	<u>RPD</u>	<u>RPD Limit</u>
1,4-Dioxane	2.0	U H	10.0	9.96	H	ug/L		100	46 - 170	2	26

<u>Surrogate</u>	<u>MSD MSD</u> <u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
1,2-Dichloroethane-d4 (Surr)	96		70 - 133

QC Association Summary

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

Job ID: 240-149244-1

GC/MS VOA

Analysis Batch: 486912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149244-1	TRIP BLANK_53	Total/NA	Water	8260B	
240-149244-2	MW-134S_051021	Total/NA	Water	8260B	
MB 240-486912/7	Method Blank	Total/NA	Water	8260B	
LCS 240-486912/4	Lab Control Sample	Total/NA	Water	8260B	
240-149244-2MS	MW-134S-MS_051021	Total/NA	Water	8260B	
240-149244-2MSD	MW-134S-MSD_051021	Total/NA	Water	8260B	

Analysis Batch: 487235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149244-2	MW-134S_051021	Total/NA	Water	8260B SIM	
MB 240-487235/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-487235/4	Lab Control Sample	Total/NA	Water	8260B SIM	

Analysis Batch: 487433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-487433/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-487433/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-149244-2MS	MW-134S-MS_051021	Total/NA	Water	8260B SIM	
240-149244-2MSD	MW-134S-MSD_051021	Total/NA	Water	8260B SIM	

Lab Chronicle

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

Job ID: 240-149244-1

Client Sample ID: TRIP BLANK_53

Lab Sample ID: 240-149244-1

Date Collected: 05/10/21 00:00

Matrix: Water

Date Received: 05/12/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	486912	05/21/21 12:22	LEE	TAL CAN

Client Sample ID: MW-134S_051021

Lab Sample ID: 240-149244-2

Date Collected: 05/10/21 12:40

Matrix: Water

Date Received: 05/12/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	486912	05/21/21 12:44	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	487235	05/24/21 16:40	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: 240-149244-1

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	06-30-21
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21 *
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

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



Chain of Custody Record

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

MICHIGAN

Regulatory program: DW NPDES RCRA Other

Client Project Manager: Kris Hinskey
 Telephone: 248-994-2240
 Email: kris@hinskey.com

Site Contact: Julia McClafferty
 Telephone: 734-644-5131

Lab Contact: Mike DelMonico
 Telephone: 330-497-9396

Company Name: Arcadis
 Address: 28550 Cabot Drive, Suite 500
 City/State/Zip: Nov4, MI, 48377

Project Name: Ford LTP Off-Site
 Project Number: 30080642.402.04

PO # 30080642.402.04

Sampler Name: Andrew Barritt
 Method of Shipment/Carrier:

Shipping/Tracking No:

Sample Identification	Sample Date	Sample Time	Matrix				Containers & Preservatives				Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses						Sample Specific Notes / Special Instructions:	
			Air	Aqueous	Sediment	Solid	H2SO4	HNO3	HCl	NaOH			NaOH	Unpres	Other:	1,1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B		PCE 8260B
Trip Blank - 93	---	---	X																	1 Trip Blank
MW-1345-051021	5/10/21	1240	X																	3 VOAs for 8260B 3 VOAs for 8260B SIM
MW-1345-M5-051021	5/10/21	1240	X																	Run M5/MSD
MW-1345-MSD_051021	5/10/21	1240	X																	↓

Barcode: 240-149244 Chain of Custody

Possible Hazard Identification: Non-Hazard Flammable Irritant Unknown

Special Instructions/QC Requirements & Comments:

Submit all results through Cadena at jromalia@cadenaco.com. Cadena #E203631
 Level IV Reporting requested.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[Signature]	Arcadis	5/10/21 1530	Novi, ind storage	Arcadis	5/10/21 1530
[Signature]	ARCADIS	5/11/21 1953	[Signature]	Company: ETA	5/11/21 953
[Signature]	ETA	5/11/21 1456	[Signature]	Company: FTA	5-12-21 800

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



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Eurofins TestAmerica Canton Sample Receipt Form/Narrative Login #: 149244
Canton Facility

Client Arcadis Site Name _____ Cooler unpacked by: Matt Snyder
Cooler Received on 5-12-21 Opened on 5-12-21
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____


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: Water Blue Ice _____ Dry Ice _____ Water _____ None _____

1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
IR GUN #IR-12 (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 _____ 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 NA
-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 (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)?
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# HC022887
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? Yes NA Larger than this. 
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # NA Yes No
17. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

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

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

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: _____

