

ANALYTICAL REPORT

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

Laboratory Job ID: 240-171299-1
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:
8/17/2022 1:52:44 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: 240-171299-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
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: 240-171299-1

Job ID: 240-171299-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-171299-1

Comments

No additional comments.

Receipt

The samples were received on 8/10/2022 1:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.0° C and 2.7° C.

GC/MS VOA

Method 8260D: Surrogate recovery for the following sample was outside the upper control limit: MW-87S_080822 (240-171299-3). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The following sample submitted for volatiles analysis was received with insufficient preservation (pH >2): MW-87S_080822 (240-171299-3).

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: 240-171299-1

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

Protocol References:

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

Laboratory References:

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



Sample Summary

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

Job ID: 240-171299-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-171299-1	TRIP BLANK_69	Water	08/08/22 00:00	08/10/22 13:05
240-171299-2	MW-87_080822	Water	08/08/22 10:50	08/10/22 13:05
240-171299-3	MW-87S_080822	Water	08/08/22 12:15	08/10/22 13:05

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- 2
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- 5
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- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

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

Job ID: 240-171299-1

Client Sample ID: TRIP BLANK_69

Lab Sample ID: 240-171299-1

No Detections.

Client Sample ID: MW-87_080822

Lab Sample ID: 240-171299-2

No Detections.

Client Sample ID: MW-87S_080822

Lab Sample ID: 240-171299-3

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.

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Client Sample Results

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

Job ID: 240-171299-1

Client Sample ID: TRIP BLANK_69

Lab Sample ID: 240-171299-1

Date Collected: 08/08/22 00:00

Matrix: Water

Date Received: 08/10/22 13:05

Method: 8260D - Volatile Organic Compounds by 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			08/11/22 17:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/11/22 17:03	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/11/22 17:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/11/22 17:03	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/11/22 17:03	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/22 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		62 - 137		08/11/22 17:03	1
4-Bromofluorobenzene (Surr)	101		56 - 136		08/11/22 17:03	1
Toluene-d8 (Surr)	106		78 - 122		08/11/22 17:03	1
Dibromofluoromethane (Surr)	116		73 - 120		08/11/22 17:03	1

Client Sample Results

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

Job ID: 240-171299-1

Client Sample ID: MW-87_080822

Lab Sample ID: 240-171299-2

Date Collected: 08/08/22 10:50

Matrix: Water

Date Received: 08/10/22 13:05

Method: 8260D 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			08/13/22 03:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		66 - 120					08/13/22 03:03	1

Method: 8260D - Volatile Organic Compounds by 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			08/11/22 17:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/11/22 17:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/11/22 17:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/11/22 17:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/11/22 17:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/22 17:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		62 - 137					08/11/22 17:27	1
4-Bromofluorobenzene (Surr)	103		56 - 136					08/11/22 17:27	1
Toluene-d8 (Surr)	111		78 - 122					08/11/22 17:27	1
Dibromofluoromethane (Surr)	119		73 - 120					08/11/22 17:27	1

Client Sample Results

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

Job ID: 240-171299-1

Client Sample ID: MW-87S_080822

Lab Sample ID: 240-171299-3

Date Collected: 08/08/22 12:15

Matrix: Water

Date Received: 08/10/22 13:05

Method: 8260D 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			08/13/22 03:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		66 - 120					08/13/22 03:29	1

Method: 8260D - Volatile Organic Compounds by 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			08/11/22 17:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/11/22 17:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/11/22 17:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/11/22 17:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/11/22 17:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/22 17:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		62 - 137					08/11/22 17:52	1
4-Bromofluorobenzene (Surr)	104		56 - 136					08/11/22 17:52	1
Toluene-d8 (Surr)	113		78 - 122					08/11/22 17:52	1
Dibromofluoromethane (Surr)	125	S1+	73 - 120					08/11/22 17:52	1

Surrogate Summary

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

Job ID: 240-171299-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (62-137)	BFB (56-136)	TOL (78-122)	DBFM (73-120)
240-171299-1	TRIP BLANK_69	110	101	106	116
240-171299-2	MW-87_080822	114	103	111	119
240-171299-3	MW-87S_080822	118	104	113	125 S1+
240-171299-3 MS	MW-87S-MS_080822	99	117	118	103
240-171299-3 MSD	MW-87S-MSD_080822	96	116	115	99
LCS 240-538478/5	Lab Control Sample	95	119	117	101
MB 240-538478/8	Method Blank	110	105	110	116

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 TOL = Toluene-d8 (Surr)
 DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (66-120)
240-171299-2	MW-87_080822	88
240-171299-3	MW-87S_080822	90
240-171299-3 MS	MW-87S-MS_080822	91
240-171299-3 MSD	MW-87S-MSD_080822	90
LCS 240-538760/3	Lab Control Sample	89
MB 240-538760/4	Method Blank	89

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-171299-1

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

Lab Sample ID: MB 240-538478/8
Matrix: Water
Analysis Batch: 538478

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			08/11/22 13:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/11/22 13:02	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/11/22 13:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/11/22 13:02	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/11/22 13:02	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/22 13:02	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	110		62 - 137		08/11/22 13:02	1
4-Bromofluorobenzene (Surr)	105		56 - 136		08/11/22 13:02	1
Toluene-d8 (Surr)	110		78 - 122		08/11/22 13:02	1
Dibromofluoromethane (Surr)	116		73 - 120		08/11/22 13:02	1

Lab Sample ID: LCS 240-538478/5
Matrix: Water
Analysis Batch: 538478

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	20.0	21.8		ug/L		109	63 - 134
cis-1,2-Dichloroethene	20.0	20.4		ug/L		102	77 - 123
Tetrachloroethene	20.0	21.8		ug/L		109	76 - 123
trans-1,2-Dichloroethene	20.0	20.5		ug/L		103	75 - 124
Trichloroethene	20.0	19.6		ug/L		98	70 - 122
Vinyl chloride	20.0	18.5		ug/L		93	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	95		62 - 137
4-Bromofluorobenzene (Surr)	119		56 - 136
Toluene-d8 (Surr)	117		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

Lab Sample ID: 240-171299-3 MS
Matrix: Water
Analysis Batch: 538478

Client Sample ID: MW-87S-MS_080822
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	20.0	18.2		ug/L		91	56 - 135
cis-1,2-Dichloroethene	1.0	U	20.0	19.0		ug/L		95	66 - 128
Tetrachloroethene	1.0	U	20.0	19.2		ug/L		96	62 - 131
trans-1,2-Dichloroethene	1.0	U	20.0	18.9		ug/L		94	56 - 136
Trichloroethene	1.0	U	20.0	17.7		ug/L		89	61 - 124
Vinyl chloride	1.0	U	20.0	17.1		ug/L		86	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	117		56 - 136
Toluene-d8 (Surr)	118		78 - 122

QC Sample Results

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

Job ID: 240-171299-1

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

Lab Sample ID: 240-171299-3 MS
Matrix: Water
Analysis Batch: 538478

Client Sample ID: MW-87S-MS_080822
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	103		73 - 120

Lab Sample ID: 240-171299-3 MSD
Matrix: Water
Analysis Batch: 538478

Client Sample ID: MW-87S-MSD_080822
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	20.0	19.4		ug/L		97	56 - 135	6	26
cis-1,2-Dichloroethene	1.0	U	20.0	18.6		ug/L		93	66 - 128	2	14
Tetrachloroethene	1.0	U	20.0	19.6		ug/L		98	62 - 131	2	20
trans-1,2-Dichloroethene	1.0	U	20.0	18.3		ug/L		91	56 - 136	3	15
Trichloroethene	1.0	U	20.0	17.8		ug/L		89	61 - 124	0	15
Vinyl chloride	1.0	U	20.0	17.7		ug/L		89	43 - 157	3	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	116		56 - 136
Toluene-d8 (Surr)	115		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

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

Lab Sample ID: MB 240-538760/4
Matrix: Water
Analysis Batch: 538760

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			08/12/22 21:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		66 - 120		08/12/22 21:10	1

Lab Sample ID: LCS 240-538760/3
Matrix: Water
Analysis Batch: 538760

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	10.0		ug/L		100	80 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		66 - 120

Lab Sample ID: 240-171299-3 MS
Matrix: Water
Analysis Batch: 538760

Client Sample ID: MW-87S-MS_080822
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	9.99		ug/L		100	51 - 153

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QC Sample Results

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

Job ID: 240-171299-1

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

<i>Surrogate</i>	<i>MS</i> <i>%Recovery</i>	<i>MS</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	91		66 - 120

Lab Sample ID: 240-171299-3 MSD
Matrix: Water
Analysis Batch: 538760

Client Sample ID: MW-87S-MSD_080822
Prep Type: Total/NA

<i>Analyte</i>	<i>Sample</i> <i>Result</i>	<i>Sample</i> <i>Qualifier</i>	<i>Spike</i> <i>Added</i>	<i>MSD</i> <i>Result</i>	<i>MSD</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i> <i>Limits</i>	<i>RPD</i>	<i>RPD</i> <i>Limit</i>
1,4-Dioxane	2.0	U	10.0	9.83		ug/L		98	51 - 153	2	16

<i>Surrogate</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	90		66 - 120

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QC Association Summary

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

Job ID: 240-171299-1

GC/MS VOA

Analysis Batch: 538478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-171299-1	TRIP BLANK_69	Total/NA	Water	8260D	
240-171299-2	MW-87_080822	Total/NA	Water	8260D	
240-171299-3	MW-87S_080822	Total/NA	Water	8260D	
MB 240-538478/8	Method Blank	Total/NA	Water	8260D	
LCS 240-538478/5	Lab Control Sample	Total/NA	Water	8260D	
240-171299-3 MS	MW-87S-MS_080822	Total/NA	Water	8260D	
240-171299-3 MSD	MW-87S-MSD_080822	Total/NA	Water	8260D	

Analysis Batch: 538760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-171299-2	MW-87_080822	Total/NA	Water	8260D SIM	
240-171299-3	MW-87S_080822	Total/NA	Water	8260D SIM	
MB 240-538760/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-538760/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-171299-3 MS	MW-87S-MS_080822	Total/NA	Water	8260D SIM	
240-171299-3 MSD	MW-87S-MSD_080822	Total/NA	Water	8260D SIM	

Lab Chronicle

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

Job ID: 240-171299-1

Client Sample ID: TRIP BLANK_69

Lab Sample ID: 240-171299-1

Date Collected: 08/08/22 00:00

Matrix: Water

Date Received: 08/10/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	538478	LEE	EET CAN	08/11/22 17:03

Client Sample ID: MW-87_080822

Lab Sample ID: 240-171299-2

Date Collected: 08/08/22 10:50

Matrix: Water

Date Received: 08/10/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	538478	LEE	EET CAN	08/11/22 17:27
Total/NA	Analysis	8260D SIM		1	538760	CS	EET CAN	08/13/22 03:03

Client Sample ID: MW-87S_080822

Lab Sample ID: 240-171299-3

Date Collected: 08/08/22 12:15

Matrix: Water

Date Received: 08/10/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	538478	LEE	EET CAN	08/11/22 17:52
Total/NA	Analysis	8260D SIM		1	538760	CS	EET CAN	08/13/22 03:29

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 240-171299-1

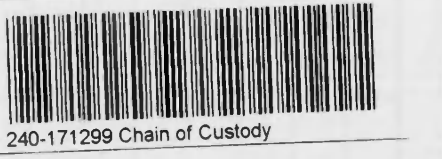
Laboratory: Eurofins Canton

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	State	2927	02-27-23
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-27-23
Illinois	NELAP	200004	07-31-23
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23
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	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-23-23
Ohio VAP	State	CL0024	02-27-23
Oregon	NELAP	4062	02-27-23
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

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: Nov4, MI, 48377 Phone: 248-994-2240		Regulatory program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other	
Client Project Manager: Kris Hlinsky Telephone: 269-832-7478 Email: Kristoffer.Hlinsky@arcadis.com		Lab Contact: Mike DelMonico Telephone: 310-966-9783	
Sampler Name: Lotte Jay		Analyses 1-Trip Blank 3 VOAs for 8260D 3 VOAs for 8260D SIM	
Method of Shipment/Carrier: Shipping/Tracking No:		Walk-in client Lab sampling Job/SDG No:	
Sample Identification TRIP BLANK_69 MW-87-080822 MW-87S-080822 MW-87S-MS-080822 MW-87S-MSD-080822		Sample Specific Notes / Special Instructions:	
Sample Date 8/8/22 8/18/22 12/15 12/15 12/15		Sample Time --- 1050 1215 1215 1215	
Matrix Air Aqueous Sediment Solid Other:		Containers & Preservatives H2SO4 HNO3 HCl NaOH ZnAc NaOH Other:	
Filtered Sample (Y/N) NG NG NG NG NG		Analysis Composite=C/Grab=G 1-1-DCE 8260D cis-1,2-DCE 8260D Trans-1,2-DCE 8260D PCE 8260D TCE 8260D Vinyl Chloride 8260D 1,4-Dioxane 8260D SIM	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For	
Special Instructions/QC Requirements & Comments: Submit all results through Cadena at jtomalla@cadenac.com, Cadena #E203631 Level IV Reporting requested		Date/Time: 8/18/22 1425 Date/Time: 8/19/22 1411 Date/Time: 8/10/22 9:30	
Relinquished by: <i>Janice Lee</i> Relinquished by: <i>Janice Lee</i> Relinquished by: <i>Janice Lee</i>		Company: ARCADIS Company: ARCADIS Company: CETA	



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Eurofins - Canton Sample Receipt Form/Narrative
Barberton Facility

Login # : _____

Client Arcadis Site Name _____

Cooler unpacked by:

Cooler Received on 8-10-22 Opened on 8-10-22

Justin H

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____

Storage Location _____

Eurofins Cooler # T4 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-13 (CF +0.7 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN #IR-15 (CF 0.0°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
 -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

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

- 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# HC286797
- 14. Were VOAs on the COC? Yes No
- 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 # Covered 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 _____

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: _____

