

ANALYTICAL REPORT

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

Laboratory Job ID: 240-166471-1
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:
5/26/2022 10:11:47 AM

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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: 240-166471-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 240-166471-1

Job ID: 240-166471-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-166471-1

Comments

No additional comments.

Receipt

The samples were received on 5/12/2022 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 4.0° C and 4.0° C.

GC/MS VOA

Methods 8260C, 8260D: The continuing calibration verification (CCV) analyzed in batch 240-526914 was outside the method criteria for the following analytes: bromomethane and chloroethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

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: 240-166471-1

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

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

Job ID: 240-166471-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-166471-1	TRIP BLANK_66	Water	05/10/22 00:00	05/12/22 08:00
240-166471-2	MW-75SR_051022	Water	05/10/22 10:30	05/12/22 08:00
240-166471-3	MW-75D_051022	Water	05/10/22 11:30	05/12/22 08:00

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Detection Summary

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

Job ID: 240-166471-1

Client Sample ID: TRIP BLANK_66

Lab Sample ID: 240-166471-1

No Detections.

Client Sample ID: MW-75SR_051022

Lab Sample ID: 240-166471-2

No Detections.

Client Sample ID: MW-75D_051022

Lab Sample ID: 240-166471-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.2	J	2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	1.0		1.0	0.45	ug/L	1		8260D	Total/NA

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: 240-166471-1

Client Sample ID: TRIP BLANK_66

Lab Sample ID: 240-166471-1

Date Collected: 05/10/22 00:00

Matrix: Water

Date Received: 05/12/22 08:00

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			05/18/22 19:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/22 19:47	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 19:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/22 19:47	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 19:47	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/22 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137		05/18/22 19:47	1
4-Bromofluorobenzene (Surr)	98		56 - 136		05/18/22 19:47	1
Toluene-d8 (Surr)	102		78 - 122		05/18/22 19:47	1
Dibromofluoromethane (Surr)	92		73 - 120		05/18/22 19:47	1

Client Sample Results

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

Job ID: 240-166471-1

Client Sample ID: MW-75SR_051022

Lab Sample ID: 240-166471-2

Date Collected: 05/10/22 10:30

Matrix: Water

Date Received: 05/12/22 08:00

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			05/17/22 00:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		66 - 120		05/17/22 00:22	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			05/18/22 20:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/22 20:10	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 20:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/22 20:10	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 20:10	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/22 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137		05/18/22 20:10	1
4-Bromofluorobenzene (Surr)	96		56 - 136		05/18/22 20:10	1
Toluene-d8 (Surr)	103		78 - 122		05/18/22 20:10	1
Dibromofluoromethane (Surr)	95		73 - 120		05/18/22 20:10	1

Client Sample Results

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

Job ID: 240-166471-1

Client Sample ID: MW-75D_051022

Lab Sample ID: 240-166471-3

Date Collected: 05/10/22 11:30

Matrix: Water

Date Received: 05/12/22 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.2	J	2.0	0.86	ug/L			05/17/22 00:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 120					05/17/22 00:47	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			05/18/22 20:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/22 20:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 20:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/22 20:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 20:32	1
Vinyl chloride	1.0		1.0	0.45	ug/L			05/18/22 20:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137					05/18/22 20:32	1
4-Bromofluorobenzene (Surr)	97		56 - 136					05/18/22 20:32	1
Toluene-d8 (Surr)	101		78 - 122					05/18/22 20:32	1
Dibromofluoromethane (Surr)	92		73 - 120					05/18/22 20:32	1

Surrogate Summary

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

Job ID: 240-166471-1

Method: 8260D - Volatile Organic Compounds by 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)
240-166357-E-1 MSD	Matrix Spike Duplicate	98	106	104	92
240-166357-F-1 MS	Matrix Spike	98	108	106	93
240-166471-1	TRIP BLANK_66	103	98	102	92
240-166471-2	MW-75SR_051022	105	96	103	95
240-166471-3	MW-75D_051022	103	97	101	92
LCS 240-526914/5	Lab Control Sample	97	104	103	92
MB 240-526914/8	Method Blank	101	101	103	91

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

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA
		(66-120)
240-166471-2	MW-75SR_051022	104
240-166471-3	MW-75D_051022	102
240-166472-H-2 MS	Matrix Spike	104
240-166472-N-2 MSD	Matrix Spike Duplicate	105
LCS 240-526643/3	Lab Control Sample	103
MB 240-526643/4	Method Blank	101

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-166471-1

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

Lab Sample ID: MB 240-526914/8
Matrix: Water
Analysis Batch: 526914

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			05/18/22 11:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/22 11:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 11:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/22 11:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 11:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/22 11:57	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	101		62 - 137		05/18/22 11:57	1
4-Bromofluorobenzene (Surr)	101		56 - 136		05/18/22 11:57	1
Toluene-d8 (Surr)	103		78 - 122		05/18/22 11:57	1
Dibromofluoromethane (Surr)	91		73 - 120		05/18/22 11:57	1

Lab Sample ID: LCS 240-526914/5
Matrix: Water
Analysis Batch: 526914

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	20.0		ug/L		100	63 - 134
cis-1,2-Dichloroethene	20.0	19.0		ug/L		95	77 - 123
Tetrachloroethene	20.0	20.7		ug/L		104	76 - 123
trans-1,2-Dichloroethene	20.0	19.4		ug/L		97	75 - 124
Trichloroethene	20.0	19.1		ug/L		95	70 - 122
Vinyl chloride	20.0	16.5		ug/L		82	60 - 144

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	104		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

Lab Sample ID: 240-166357-E-1 MSD
Matrix: Water
Analysis Batch: 526914

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
				Result	Qualifier						
1,1-Dichloroethene	1.0	U	20.0	19.5		ug/L		97	56 - 135	3	26
cis-1,2-Dichloroethene	1.0	U	20.0	18.7		ug/L		94	66 - 128	1	14
Tetrachloroethene	1.0	U	20.0	20.6		ug/L		103	62 - 131	3	20
trans-1,2-Dichloroethene	1.0	U	20.0	19.2		ug/L		96	56 - 136	0	15
Trichloroethene	1.0	U	20.0	18.7		ug/L		93	61 - 124	0	15
Vinyl chloride	1.0	U	20.0	15.8		ug/L		79	43 - 157	4	24

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	106		56 - 136
Toluene-d8 (Surr)	104		78 - 122

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QC Sample Results

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

Job ID: 240-166471-1

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

Lab Sample ID: 240-166357-E-1 MSD
Matrix: Water
Analysis Batch: 526914

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	92		73 - 120

Lab Sample ID: 240-166357-F-1 MS
Matrix: Water
Analysis Batch: 526914

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	1.0	U	20.0	20.0		ug/L		100	56 - 135
cis-1,2-Dichloroethene	1.0	U	20.0	18.9		ug/L		95	66 - 128
Tetrachloroethene	1.0	U	20.0	21.2		ug/L		106	62 - 131
trans-1,2-Dichloroethene	1.0	U	20.0	19.1		ug/L		96	56 - 136
Trichloroethene	1.0	U	20.0	18.7		ug/L		94	61 - 124
Vinyl chloride	1.0	U	20.0	16.4		ug/L		82	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	108		56 - 136
Toluene-d8 (Surr)	106		78 - 122
Dibromofluoromethane (Surr)	93		73 - 120

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

Lab Sample ID: MB 240-526643/4
Matrix: Water
Analysis Batch: 526643

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			05/16/22 20:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 120		05/16/22 20:12	1

Lab Sample ID: LCS 240-526643/3
Matrix: Water
Analysis Batch: 526643

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	9.43		ug/L		94	80 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 120

Lab Sample ID: 240-166472-H-2 MS
Matrix: Water
Analysis Batch: 526643

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	9.51		ug/L		95	51 - 153

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QC Sample Results

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

Job ID: 240-166471-1

Method: 8260D 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)	104		66 - 120

Lab Sample ID: 240-166472-N-2 MSD
 Matrix: Water
 Analysis Batch: 526643

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	10.0	10.0		ug/L		100	51 - 153	5	16

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	105		66 - 120

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QC Association Summary

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

Job ID: 240-166471-1

GC/MS VOA

Analysis Batch: 526643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-166471-2	MW-75SR_051022	Total/NA	Water	8260D SIM	
240-166471-3	MW-75D_051022	Total/NA	Water	8260D SIM	
MB 240-526643/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-526643/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-166472-H-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-166472-N-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 526914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-166471-1	TRIP BLANK_66	Total/NA	Water	8260D	
240-166471-2	MW-75SR_051022	Total/NA	Water	8260D	
240-166471-3	MW-75D_051022	Total/NA	Water	8260D	
MB 240-526914/8	Method Blank	Total/NA	Water	8260D	
LCS 240-526914/5	Lab Control Sample	Total/NA	Water	8260D	
240-166357-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-166357-F-1 MS	Matrix Spike	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 240-166471-1

Client Sample ID: TRIP BLANK_66

Lab Sample ID: 240-166471-1

Date Collected: 05/10/22 00:00

Matrix: Water

Date Received: 05/12/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	526914	05/18/22 19:47	TJL1	TAL CAN

Client Sample ID: MW-75SR_051022

Lab Sample ID: 240-166471-2

Date Collected: 05/10/22 10:30

Matrix: Water

Date Received: 05/12/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	526914	05/18/22 20:10	TJL1	TAL CAN
Total/NA	Analysis	8260D SIM		1	526643	05/17/22 00:22	CS	TAL CAN

Client Sample ID: MW-75D_051022

Lab Sample ID: 240-166471-3

Date Collected: 05/10/22 11:30

Matrix: Water

Date Received: 05/12/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	526914	05/18/22 20:32	TJL1	TAL CAN
Total/NA	Analysis	8260D SIM		1	526643	05/17/22 00:47	CS	TAL CAN

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 240-166471-1

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	06-30-22
Georgia	State	4062	02-23-22 *
Illinois	NELAP	200004	07-31-22
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	06-30-22
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-23-23
Ohio VAP	State	CL0024	05-24-22
Oregon	NELAP	4062	05-24-22
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-22-16	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

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

Eurofins Canton

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

Regulatory program: DW NPDES RCRA Other

Client Project Manager: Kris Hinskey
 Telephone: 269-832-7478
 Email: Kristoffer.Hinskey@arcadis.com

Site Contact: Christina Weaver
 Telephone: 248-994-2329

Lab Contact: Mike DeMonico
 Telephone: 330-966-9783

Company Name: Arcadis
 Address: 26550 Cabot Drive, Suite 500
 City/State/Zip: Novi, MI, 48377
 Phone: 248-994-2240
 Project Name: Ford LTP OIE-Site
 Project Number: 30080642.402.04
 PO # 30080642.402.04

Sampler Name: *Seth Turner*
 Method of Shipment/Carrier:
 Shipping/Tracking No:

Sample Identification	Sample Date	Sample Time	Matrix				Containers & Preservatives				Filtered Sample (Y/N)	Analyses						Sample Specific Notes / Special Instructions:					
			Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl		NaOH	ZnSO4	Upret:	Other:	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
TRIP BLANK_66																						1 Trip Blank	
MW-755R_051022	5/10/22	1030	6																				3 VOAs for 8260D 3 VOAs for 8260D SIM
MW-75D_051022	5/10/22	1130	6																				



Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown

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

Special Instructions/QC Requirements & Comments:
 Sample Address: RIGHT OF WAY BELDEN
 Submit all results through Cadena at romall@cadenaco.com, Cadena #E203631
 Level IV Reporting requested

Relinquished by: *[Signature]* Company: Arcadis Date/Time: 5/10/22/1230
 Received by: *[Signature]* Company: Arcadis Date/Time: 5/11/22/0730
 Relinquished by: *[Signature]* Company: Arcadis Date/Time: 5/11/22/101
 Received by: *[Signature]* Company: Arcadis Date/Time: 5/12/22/0800



Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 166471

Client Accadis Site Name Ford - LTP

Cooler unpacked by:

Cooler Received on 5-12-22 Opened on 5-12-22

(Signature)

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: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-13 (CF 0.0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN #IR-15 (CF -0.7°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 ea 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# HC157842

14. Were VOAs on the COC? Yes (No)

15. Were air bubbles >6 mm in any VOA vials? (No) ← 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)

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:

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: _____

Login #: 166471

Eurofins - Canton Sample Receipt Multiple Cooler Form				
Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
TA Client Box Other	IR-13 IR-15	4.0	4.0	Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15	4.0	4.0	Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
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TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None

See Temperature Excursion Form

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