

ANALYTICAL REPORT

Eurofins Canton
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Barberton, OH 44203
Tel: (330)497-9396

Laboratory Job ID: 240-162665-1
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:
2/26/2022 1:14:24 PM

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



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Method Summary	5
Sample Summary	6
Detection Summary	7
Client Sample Results	8
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	15
Lab Chronicle	16
Certification Summary	17
Chain of Custody	18

Definitions/Glossary

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

Job ID: 240-162665-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 240-162665-1

Job ID: 240-162665-1

Laboratory: Eurofins Canton

Narrative

**Job Narrative
240-162665-1**

Comments

No additional comments.

Receipt

The samples were received on 2/12/2022 10:20 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 1.8° C and 2.4° C.

GC/MS VOA

Method 8260B SIM: The matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-518020 were not spiked during prep due to analyst error.

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.

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

Method Summary

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

Job ID: 240-162665-1

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 Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, 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: 240-162665-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-162665-1	TRIP BLANK_10	Water	02/09/22 00:00	02/12/22 10:20
240-162665-2	MW-87_020922	Water	02/09/22 11:06	02/12/22 10:20
240-162665-3	MW-87S_020922	Water	02/09/22 12:11	02/12/22 10:20

- 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: 240-162665-1

Client Sample ID: TRIP BLANK_10

Lab Sample ID: 240-162665-1

No Detections.

Client Sample ID: MW-87_020922

Lab Sample ID: 240-162665-2

No Detections.

Client Sample ID: MW-87S_020922

Lab Sample ID: 240-162665-3

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: 240-162665-1

Client Sample ID: TRIP BLANK_10

Lab Sample ID: 240-162665-1

Date Collected: 02/09/22 00:00

Matrix: Water

Date Received: 02/12/22 10:20

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			02/14/22 19:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/14/22 19:18	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 19:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/14/22 19:18	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 19:18	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/14/22 19:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		62 - 137		02/14/22 19:18	1
4-Bromofluorobenzene (Surr)	107		56 - 136		02/14/22 19:18	1
Toluene-d8 (Surr)	87		78 - 122		02/14/22 19:18	1
Dibromofluoromethane (Surr)	84		73 - 120		02/14/22 19:18	1

Client Sample Results

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

Job ID: 240-162665-1

Client Sample ID: MW-87_020922

Lab Sample ID: 240-162665-2

Date Collected: 02/09/22 11:06

Matrix: Water

Date Received: 02/12/22 10:20

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			02/15/22 00:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		66 - 120		02/15/22 00:04	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			02/14/22 19:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/14/22 19:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 19:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/14/22 19:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 19:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/14/22 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	72		62 - 137		02/14/22 19:42	1
4-Bromofluorobenzene (Surr)	108		56 - 136		02/14/22 19:42	1
Toluene-d8 (Surr)	88		78 - 122		02/14/22 19:42	1
Dibromofluoromethane (Surr)	85		73 - 120		02/14/22 19:42	1

Client Sample Results

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

Job ID: 240-162665-1

Client Sample ID: MW-87S_020922

Lab Sample ID: 240-162665-3

Date Collected: 02/09/22 12:11

Matrix: Water

Date Received: 02/12/22 10:20

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 F1	2.0	0.86	ug/L			02/19/22 01:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		66 - 120					02/19/22 01:15	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			02/14/22 14:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/14/22 14:51	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 14:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/14/22 14:51	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 14:51	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/14/22 14:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	75		62 - 137					02/14/22 14:51	1
4-Bromofluorobenzene (Surr)	111		56 - 136					02/14/22 14:51	1
Toluene-d8 (Surr)	90		78 - 122					02/14/22 14:51	1
Dibromofluoromethane (Surr)	89		73 - 120					02/14/22 14:51	1

Surrogate Summary

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

Job ID: 240-162665-1

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)
240-162665-1	TRIP BLANK_10	77	107	87	84
240-162665-2	MW-87_020922	72	108	88	85
240-162665-3	MW-87S_020922	75	111	90	89
240-162665-3 MS	MW-87S-MS_020922	77	115	88	88
240-162665-3 MSD	MW-87S-MSD_020922	74	113	87	87
LCS 240-517986/5	Lab Control Sample	72	118	89	88
MB 240-517986/8	Method Blank	73	108	87	85

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)
240-162665-2	MW-87_020922	78
240-162665-3	MW-87S_020922	82
240-162665-3 MS	MW-87S-MS_020922	83
240-162665-3 MSD	MW-87S-MSD_020922	83
LCS 240-518020/4	Lab Control Sample	84
LCS 240-518285/3	Lab Control Sample	83
MB 240-518020/5	Method Blank	84
MB 240-518285/4	Method Blank	82

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-162665-1

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

Lab Sample ID: MB 240-517986/8
Matrix: Water
Analysis Batch: 517986

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			02/14/22 12:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/14/22 12:55	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 12:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/14/22 12:55	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/14/22 12:55	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/14/22 12:55	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	73		62 - 137		02/14/22 12:55	1
4-Bromofluorobenzene (Surr)	108		56 - 136		02/14/22 12:55	1
Toluene-d8 (Surr)	87		78 - 122		02/14/22 12:55	1
Dibromofluoromethane (Surr)	85		73 - 120		02/14/22 12:55	1

Lab Sample ID: LCS 240-517986/5
Matrix: Water
Analysis Batch: 517986

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	20.9		ug/L		105	63 - 134
cis-1,2-Dichloroethene	20.0	20.1		ug/L		101	77 - 123
Tetrachloroethene	20.0	19.3		ug/L		97	76 - 123
trans-1,2-Dichloroethene	20.0	20.4		ug/L		102	75 - 124
Trichloroethene	20.0	20.4		ug/L		102	70 - 122
Vinyl chloride	20.0	19.7		ug/L		98	60 - 144

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	72		62 - 137
4-Bromofluorobenzene (Surr)	118		56 - 136
Toluene-d8 (Surr)	89		78 - 122
Dibromofluoromethane (Surr)	88		73 - 120

Lab Sample ID: 240-162665-3 MS
Matrix: Water
Analysis Batch: 517986

Client Sample ID: MW-87S-MS_020922
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	20.1		ug/L		101	56 - 135
cis-1,2-Dichloroethene	1.0	U	20.0	20.0		ug/L		100	66 - 128
Tetrachloroethene	1.0	U	20.0	19.1		ug/L		96	62 - 131
trans-1,2-Dichloroethene	1.0	U	20.0	21.4		ug/L		107	56 - 136
Trichloroethene	1.0	U	20.0	20.1		ug/L		101	61 - 124
Vinyl chloride	1.0	U	20.0	21.3		ug/L		106	43 - 157

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	77		62 - 137
4-Bromofluorobenzene (Surr)	115		56 - 136
Toluene-d8 (Surr)	88		78 - 122

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QC Sample Results

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

Job ID: 240-162665-1

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

Lab Sample ID: 240-162665-3 MS
Matrix: Water
Analysis Batch: 517986

Client Sample ID: MW-87S-MS_020922
Prep Type: Total/NA

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	88		73 - 120

Lab Sample ID: 240-162665-3 MSD
Matrix: Water
Analysis Batch: 517986

Client Sample ID: MW-87S-MSD_020922
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
1,1-Dichloroethene	1.0	U	20.0	19.9		ug/L		100	56 - 135	1	26	
cis-1,2-Dichloroethene	1.0	U	20.0	19.2		ug/L		96	66 - 128	4	14	
Tetrachloroethene	1.0	U	20.0	18.3		ug/L		92	62 - 131	4	20	
trans-1,2-Dichloroethene	1.0	U	20.0	20.3		ug/L		101	56 - 136	5	15	
Trichloroethene	1.0	U	20.0	20.4		ug/L		102	61 - 124	1	15	
Vinyl chloride	1.0	U	20.0	20.6		ug/L		103	43 - 157	3	24	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	74		62 - 137
4-Bromofluorobenzene (Surr)	113		56 - 136
Toluene-d8 (Surr)	87		78 - 122
Dibromofluoromethane (Surr)	87		73 - 120

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

Lab Sample ID: MB 240-518020/5
Matrix: Water
Analysis Batch: 518020

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/14/22 17:23	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	84		66 - 120		02/14/22 17:23	1

Lab Sample ID: LCS 240-518020/4
Matrix: Water
Analysis Batch: 518020

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

Analyte	Spike	LCS LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	RPD
1,4-Dioxane	10.0	9.61		ug/L		96	80 - 122	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	84		66 - 120

Lab Sample ID: MB 240-518285/4
Matrix: Water
Analysis Batch: 518285

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/18/22 22:20	1

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QC Sample Results

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

Job ID: 240-162665-1

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

<u>Surrogate</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)	82		66 - 120		02/18/22 22:20	1

Lab Sample ID: LCS 240-518285/3
Matrix: Water
Analysis Batch: 518285

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	9.85		ug/L		98	80 - 122

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
1,2-Dichloroethane-d4 (Surr)	83		66 - 120

Lab Sample ID: 240-162665-3 MS
Matrix: Water
Analysis Batch: 518285

Client Sample ID: MW-87S-MS_020922
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 F1	10.0	9.67		ug/L		97	51 - 153

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
1,2-Dichloroethane-d4 (Surr)	83		66 - 120

Lab Sample ID: 240-162665-3 MSD
Matrix: Water
Analysis Batch: 518285

Client Sample ID: MW-87S-MSD_020922
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 F1	10.0	9.74		ug/L		97	51 - 153	1	16

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
1,2-Dichloroethane-d4 (Surr)	83		66 - 120

QC Association Summary

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

Job ID: 240-162665-1

GC/MS VOA

Analysis Batch: 517986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-162665-1	TRIP BLANK_10	Total/NA	Water	8260B	
240-162665-2	MW-87_020922	Total/NA	Water	8260B	
240-162665-3	MW-87S_020922	Total/NA	Water	8260B	
MB 240-517986/8	Method Blank	Total/NA	Water	8260B	
LCS 240-517986/5	Lab Control Sample	Total/NA	Water	8260B	
240-162665-3 MS	MW-87S-MS_020922	Total/NA	Water	8260B	
240-162665-3 MSD	MW-87S-MSD_020922	Total/NA	Water	8260B	

Analysis Batch: 518020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-162665-2	MW-87_020922	Total/NA	Water	8260B SIM	
MB 240-518020/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-518020/4	Lab Control Sample	Total/NA	Water	8260B SIM	

Analysis Batch: 518285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-162665-3	MW-87S_020922	Total/NA	Water	8260B SIM	
MB 240-518285/4	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-518285/3	Lab Control Sample	Total/NA	Water	8260B SIM	
240-162665-3 MS	MW-87S-MS_020922	Total/NA	Water	8260B SIM	
240-162665-3 MSD	MW-87S-MSD_020922	Total/NA	Water	8260B SIM	

Lab Chronicle

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

Job ID: 240-162665-1

Client Sample ID: TRIP BLANK_10

Lab Sample ID: 240-162665-1

Date Collected: 02/09/22 00:00

Matrix: Water

Date Received: 02/12/22 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	517986	02/14/22 19:18	LEE	TAL CAN

Client Sample ID: MW-87_020922

Lab Sample ID: 240-162665-2

Date Collected: 02/09/22 11:06

Matrix: Water

Date Received: 02/12/22 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	517986	02/14/22 19:42	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	518020	02/15/22 00:04	CS	TAL CAN

Client Sample ID: MW-87S_020922

Lab Sample ID: 240-162665-3

Date Collected: 02/09/22 12:11

Matrix: Water

Date Received: 02/12/22 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	517986	02/14/22 14:51	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	518285	02/19/22 01:15	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: 240-162665-1

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	02-23-22
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	12-31-22
Minnesota	NELAP	039-999-348	12-31-22
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	11-06-22
New York	NELAP	10975	03-31-22
Ohio	State	8303	02-23-23
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-21-14	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.

TestAmerica Laboratory location: Brighton — 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-225-2763

Regulatory program: DW NPDES RCRA Other

Client Contact
 Company Name: Arcadis
 Address: 24850 Cabot Drive, Suite 500
 City/State/Zip: Novi, MI, 48377
 Phone: 248-994-2240
 Project Name: Ford LTP Off-Site
 Project Number: 30080642.402.04
 PO # 30080642.402.04

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

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

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

TestAmerica Laboratories, Inc.
 COC No: _____
 1 of 1 COCs

Analyses
 Walk-in client
 Lab sampling
 Job/SDG No: _____

Sample Identification	Sample Date	Sample Time	Matrix				Filtered Sample (Y/N)	Composite=C/Grab=G	1,1-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride 8260B	1,4-Dioxane 8260B SIM	Sample Specific Notes / Special Instructions:
			Aqueous	Sediment	Solid	Other:									
TRIP BLANK_ 10	2/19/22		X				N	X	X	X	X	X	X	1 Trip Blank	
MW-87-020922	02/09/22	11:06	X				N	X	X	X	X	X	X	3 VOAs for 8260B 3 VOAs for 8260B SIM	
MW-875-020922	02/09/22	12:11	X				N	X	X	X	X	X	X		
MW-875-MS-020922	1	12:11	X				N	X	X	X	X	X	X		
MW-875-MSD-020922	1	12:11	X				N	X	X	X	X	X	X		

Containers & Preservatives
 TAT at different from below:
 10 day
 3 weeks
 2 weeks
 1 week
 2 days
 1 day

Other:
 Zn/C
 NaOH
 HCl
 HNO3
 H2SO4
 Other:

Shipping/Tracking No: _____

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

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant

Special Instructions/QC Requirements & Comments:
 Sample Address: Standish Row
 Submit all results through Cadena at jromalia@cadenaco.com. Cadena #E203631
 Level IV Reporting requested.

Relinquished by: Gary Adley
 Relinquished by: *[Signature]*
 Relinquished by: *[Signature]*

Company: Arcadis
 Date/Time: 02/10/22 1700
 Company: Arcadis
 Date/Time: 2/11/22 1000
 Company: Arcadis
 Date/Time: 2-11-22 1100

Received by: *[Signature]*
 Received by: *[Signature]*
 Received in Laboratory by: *[Signature]*

Company: Arcadis
 Date/Time: 02/10/22 1700
 Company: Arcadis
 Date/Time: 2-11-22 1000
 Company: Arcadis
 Date/Time: 2-11-22 1000

240-162665 Chain of Custody



Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton/Facility

Login # : 162665

Client Ascendis Site Name _____ Cooler unpacked by: _____

Cooler Received on 2-12-22 Opened on 2-12-22

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

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

TestAmerica Cooler # 67A 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-14 (CF +0.1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °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 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

-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)? 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

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 # 0x042019 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: _____