

ANALYTICAL REPORT

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

Laboratory Job ID: 240-159132-1
Client Project/Site: Ford LTP - On-Site

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

Attn: Kristoffer Hinskey



Authorized for release by:
11/17/2021 10:49:36 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 - On-Site

Job ID: 240-159132-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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 - On-Site

Job ID: 240-159132-1

Job ID: 240-159132-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative
240-159132-1

Comments

No additional comments.

Receipt

The samples were received on 11/3/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.2° C.

GC/MS VOA

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

VOA Prep

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

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Method Summary

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

Job ID: 240-159132-1

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

Protocol References:

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

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Sample Summary

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

Job ID: 240-159132-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-159132-1	TRIP BLANK_01	Water	11/01/21 00:00	11/03/21 08:00
240-159132-2	MW-04_110121	Water	11/01/21 10:46	11/03/21 08:00
240-159132-3	MW-05_110121	Water	11/01/21 12:08	11/03/21 08:00
240-159132-4	MW-03_110121	Water	11/01/21 14:13	11/03/21 08:00
240-159132-5	MW-02_110121	Water	11/01/21 15:22	11/03/21 08:00
240-159132-6	MW-10_110121	Water	11/01/21 16:42	11/03/21 08:00

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Detection Summary

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

Job ID: 240-159132-1

Client Sample ID: TRIP BLANK_01

Lab Sample ID: 240-159132-1

No Detections.

Client Sample ID: MW-04_110121

Lab Sample ID: 240-159132-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6200		330	150	ug/L	333.33		8260B	Total/NA
trans-1,2-Dichloroethene	200	J	330	170	ug/L	333.33		8260B	Total/NA
Trichloroethene	4000		330	150	ug/L	333.33		8260B	Total/NA
Vinyl chloride	1500		330	150	ug/L	333.33		8260B	Total/NA

Client Sample ID: MW-05_110121

Lab Sample ID: 240-159132-3

No Detections.

Client Sample ID: MW-03_110121

Lab Sample ID: 240-159132-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.1		2.0	0.86	ug/L	1		8260B SIM	Total/NA

Client Sample ID: MW-02_110121

Lab Sample ID: 240-159132-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	4.9		2.0	0.86	ug/L	1		8260B SIM	Total/NA
cis-1,2-Dichloroethene	4100		200	92	ug/L	200		8260B	Total/NA
trans-1,2-Dichloroethene	800		100	51	ug/L	100		8260B	Total/NA
Vinyl chloride	220		100	45	ug/L	100		8260B	Total/NA

Client Sample ID: MW-10_110121

Lab Sample ID: 240-159132-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	4.7		2.0	0.86	ug/L	1		8260B SIM	Total/NA
Vinyl chloride	5200		200	90	ug/L	200		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Client Sample Results

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

Job ID: 240-159132-1

Client Sample ID: TRIP BLANK_01

Lab Sample ID: 240-159132-1

Date Collected: 11/01/21 00:00

Matrix: Water

Date Received: 11/03/21 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	0.49	ug/L			11/11/21 01:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/11/21 01:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/21 01:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/21 01:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/21 01:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/21 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		62 - 137		11/11/21 01:27	1
4-Bromofluorobenzene (Surr)	70		56 - 136		11/11/21 01:27	1
Toluene-d8 (Surr)	102		78 - 122		11/11/21 01:27	1
Dibromofluoromethane (Surr)	88		73 - 120		11/11/21 01:27	1

Client Sample Results

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

Job ID: 240-159132-1

Client Sample ID: MW-04_110121

Lab Sample ID: 240-159132-2

Date Collected: 11/01/21 10:46

Matrix: Water

Date Received: 11/03/21 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			11/04/21 20:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 120					11/04/21 20:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	330	U	330	160	ug/L			11/11/21 17:53	333.33
cis-1,2-Dichloroethene	6200		330	150	ug/L			11/11/21 17:53	333.33
Tetrachloroethene	330	U	330	150	ug/L			11/11/21 17:53	333.33
trans-1,2-Dichloroethene	200	J	330	170	ug/L			11/11/21 17:53	333.33
Trichloroethene	4000		330	150	ug/L			11/11/21 17:53	333.33
Vinyl chloride	1500		330	150	ug/L			11/11/21 17:53	333.33
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137					11/11/21 17:53	333.33
4-Bromofluorobenzene (Surr)	81		56 - 136					11/11/21 17:53	333.33
Toluene-d8 (Surr)	108		78 - 122					11/11/21 17:53	333.33
Dibromofluoromethane (Surr)	98		73 - 120					11/11/21 17:53	333.33

Client Sample Results

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

Job ID: 240-159132-1

Client Sample ID: MW-05_110121

Lab Sample ID: 240-159132-3

Date Collected: 11/01/21 12:08

Matrix: Water

Date Received: 11/03/21 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			11/04/21 21:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		66 - 120		11/04/21 21:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/11/21 01:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/11/21 01:50	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/21 01:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/21 01:50	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/21 01:50	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/21 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 137		11/11/21 01:50	1
4-Bromofluorobenzene (Surr)	80		56 - 136		11/11/21 01:50	1
Toluene-d8 (Surr)	106		78 - 122		11/11/21 01:50	1
Dibromofluoromethane (Surr)	89		73 - 120		11/11/21 01:50	1

Client Sample Results

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

Job ID: 240-159132-1

Client Sample ID: MW-03_110121

Lab Sample ID: 240-159132-4

Date Collected: 11/01/21 14:13

Matrix: Water

Date Received: 11/03/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.1		2.0	0.86	ug/L			11/04/21 21:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		66 - 120					11/04/21 21:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/11/21 02:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/11/21 02:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/21 02:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/21 02:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/21 02:12	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/21 02:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		62 - 137					11/11/21 02:12	1
4-Bromofluorobenzene (Surr)	82		56 - 136					11/11/21 02:12	1
Toluene-d8 (Surr)	105		78 - 122					11/11/21 02:12	1
Dibromofluoromethane (Surr)	89		73 - 120					11/11/21 02:12	1

Client Sample Results

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

Job ID: 240-159132-1

Client Sample ID: MW-02_110121

Lab Sample ID: 240-159132-5

Date Collected: 11/01/21 15:22

Matrix: Water

Date Received: 11/03/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	4.9		2.0	0.86	ug/L			11/04/21 22:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		66 - 120		11/04/21 22:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	100	U	100	49	ug/L			11/11/21 18:16	100
cis-1,2-Dichloroethene	4100		200	92	ug/L			11/12/21 16:48	200
Tetrachloroethene	100	U	100	44	ug/L			11/11/21 18:16	100
trans-1,2-Dichloroethene	800		100	51	ug/L			11/11/21 18:16	100
Trichloroethene	100	U	100	44	ug/L			11/11/21 18:16	100
Vinyl chloride	220		100	45	ug/L			11/11/21 18:16	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137		11/11/21 18:16	100
1,2-Dichloroethane-d4 (Surr)	95		62 - 137		11/12/21 16:48	200
4-Bromofluorobenzene (Surr)	80		56 - 136		11/11/21 18:16	100
4-Bromofluorobenzene (Surr)	80		56 - 136		11/12/21 16:48	200
Toluene-d8 (Surr)	111		78 - 122		11/11/21 18:16	100
Toluene-d8 (Surr)	108		78 - 122		11/12/21 16:48	200
Dibromofluoromethane (Surr)	98		73 - 120		11/11/21 18:16	100
Dibromofluoromethane (Surr)	95		73 - 120		11/12/21 16:48	200

Client Sample Results

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

Job ID: 240-159132-1

Client Sample ID: MW-10_110121

Lab Sample ID: 240-159132-6

Date Collected: 11/01/21 16:42

Matrix: Water

Date Received: 11/03/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	4.7		2.0	0.86	ug/L			11/04/21 22:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		66 - 120		11/04/21 22:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	100	U	100	49	ug/L			11/11/21 18:38	100
cis-1,2-Dichloroethene	100	U	100	46	ug/L			11/11/21 18:38	100
Tetrachloroethene	100	U	100	44	ug/L			11/11/21 18:38	100
trans-1,2-Dichloroethene	100	U	100	51	ug/L			11/11/21 18:38	100
Trichloroethene	100	U	100	44	ug/L			11/11/21 18:38	100
Vinyl chloride	5200		200	90	ug/L			11/12/21 17:10	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137		11/11/21 18:38	100
1,2-Dichloroethane-d4 (Surr)	98		62 - 137		11/12/21 17:10	200
4-Bromofluorobenzene (Surr)	72		56 - 136		11/11/21 18:38	100
4-Bromofluorobenzene (Surr)	82		56 - 136		11/12/21 17:10	200
Toluene-d8 (Surr)	102		78 - 122		11/11/21 18:38	100
Toluene-d8 (Surr)	109		78 - 122		11/12/21 17:10	200
Dibromofluoromethane (Surr)	91		73 - 120		11/11/21 18:38	100
Dibromofluoromethane (Surr)	100		73 - 120		11/12/21 17:10	200

Surrogate Summary

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

Job ID: 240-159132-1

Method: 8260B - Volatile Organic Compounds (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)
240-159132-1	TRIP BLANK_01	90	70	102	88
240-159132-2	MW-04_110121	95	81	108	98
240-159132-3	MW-05_110121	92	80	106	89
240-159132-4	MW-03_110121	89	82	105	89
240-159132-5	MW-02_110121	97	80	111	98
240-159132-5	MW-02_110121	95	80	108	95
240-159132-6	MW-10_110121	91	72	102	91
240-159132-6	MW-10_110121	98	82	109	100
240-159143-E-3 MSD	Matrix Spike Duplicate	94	97	117	95
240-159143-H-3 MS	Matrix Spike	90	88	108	92
240-159185-C-26 MS	Matrix Spike	89	83	111	87
240-159185-C-26 MSD	Matrix Spike Duplicate	92	90	109	90
240-159556-B-7 MS	Matrix Spike	92	88	106	91
240-159556-B-7 MSD	Matrix Spike Duplicate	90	84	109	93
LCS 240-512327/4	Lab Control Sample	88	84	107	90
LCS 240-512497/4	Lab Control Sample	93	93	113	95
LCS 240-512676/4	Lab Control Sample	94	90	112	95
MB 240-512327/6	Method Blank	92	78	103	91
MB 240-512497/6	Method Blank	94	82	109	92
MB 240-512676/6	Method Blank	97	83	111	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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (66-120)
240-159132-2	MW-04_110121	98
240-159132-3	MW-05_110121	94
240-159132-4	MW-03_110121	96
240-159132-5	MW-02_110121	93
240-159132-6	MW-10_110121	92
240-159143-G-3 MS	Matrix Spike	91
240-159143-M-3 MSD	Matrix Spike Duplicate	89
LCS 240-511462/4	Lab Control Sample	89
MB 240-511462/5	Method Blank	93

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-159132-1

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

Lab Sample ID: MB 240-512327/6
Matrix: Water
Analysis Batch: 512327

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/10/21 23:58	1
cis-1,2-Dichloroethene	0.541	J	1.0	0.46	ug/L			11/10/21 23:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/10/21 23:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/10/21 23:58	1
Trichloroethene	0.468	J	1.0	0.44	ug/L			11/10/21 23:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/10/21 23:58	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	92		62 - 137		11/10/21 23:58	1
4-Bromofluorobenzene (Surr)	78		56 - 136		11/10/21 23:58	1
Toluene-d8 (Surr)	103		78 - 122		11/10/21 23:58	1
Dibromofluoromethane (Surr)	91		73 - 120		11/10/21 23:58	1

Lab Sample ID: LCS 240-512327/4
Matrix: Water
Analysis Batch: 512327

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1-Dichloroethene	10.0	10.4		ug/L		104	63 - 134
cis-1,2-Dichloroethene	10.0	10.7		ug/L		107	77 - 123
Tetrachloroethene	10.0	10.6		ug/L		106	76 - 123
trans-1,2-Dichloroethene	10.0	10.0		ug/L		100	75 - 124
Trichloroethene	10.0	9.37		ug/L		94	70 - 122
Vinyl chloride	10.0	8.92		ug/L		89	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	88		62 - 137
4-Bromofluorobenzene (Surr)	84		56 - 136
Toluene-d8 (Surr)	107		78 - 122
Dibromofluoromethane (Surr)	90		73 - 120

Lab Sample ID: 240-159143-E-3 MSD
Matrix: Water
Analysis Batch: 512327

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

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier		Result	Qualifier						
1,1-Dichloroethene	1.0	U	10.0	9.21		ug/L		92	56 - 135	1	26
cis-1,2-Dichloroethene	1.0	U	10.0	9.70		ug/L		97	66 - 128	4	14
Tetrachloroethene	1.0	U	10.0	8.77		ug/L		88	62 - 131	10	20
trans-1,2-Dichloroethene	1.0	U	10.0	9.34		ug/L		93	56 - 136	4	15
Trichloroethene	1.0	U	10.0	7.92		ug/L		79	61 - 124	6	15
Vinyl chloride	1.0	U	10.0	10.1		ug/L		101	43 - 157	6	24

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	97		56 - 136
Toluene-d8 (Surr)	117		78 - 122

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-159132-1

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

Lab Sample ID: 240-159143-E-3 MSD
Matrix: Water
Analysis Batch: 512327

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD Qualifier</i>	<i>MSD Limits</i>
<i>Dibromofluoromethane (Surr)</i>	95		73 - 120

Lab Sample ID: 240-159143-H-3 MS
Matrix: Water
Analysis Batch: 512327

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

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MS Result</i>	<i>MS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
1,1-Dichloroethene	1.0	U	10.0	9.32		ug/L		93	56 - 135
cis-1,2-Dichloroethene	1.0	U	10.0	9.36		ug/L		94	66 - 128
Tetrachloroethene	1.0	U	10.0	7.97		ug/L		80	62 - 131
trans-1,2-Dichloroethene	1.0	U	10.0	8.94		ug/L		89	56 - 136
Trichloroethene	1.0	U	10.0	7.46		ug/L		75	61 - 124
Vinyl chloride	1.0	U	10.0	9.56		ug/L		96	43 - 157

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS Qualifier</i>	<i>MS Limits</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	90		62 - 137
<i>4-Bromofluorobenzene (Surr)</i>	88		56 - 136
<i>Toluene-d8 (Surr)</i>	108		78 - 122
<i>Dibromofluoromethane (Surr)</i>	92		73 - 120

Lab Sample ID: MB 240-512497/6
Matrix: Water
Analysis Batch: 512497

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

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/11/21 12:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/11/21 12:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/21 12:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/21 12:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/21 12:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/21 12:17	1

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB Qualifier</i>	<i>MB Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	94		62 - 137		11/11/21 12:17	1
<i>4-Bromofluorobenzene (Surr)</i>	82		56 - 136		11/11/21 12:17	1
<i>Toluene-d8 (Surr)</i>	109		78 - 122		11/11/21 12:17	1
<i>Dibromofluoromethane (Surr)</i>	92		73 - 120		11/11/21 12:17	1

Lab Sample ID: LCS 240-512497/4
Matrix: Water
Analysis Batch: 512497

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

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
1,1-Dichloroethene	10.0	11.1		ug/L		111	63 - 134
cis-1,2-Dichloroethene	10.0	11.1		ug/L		111	77 - 123
Tetrachloroethene	10.0	11.7		ug/L		117	76 - 123
trans-1,2-Dichloroethene	10.0	10.8		ug/L		108	75 - 124
Trichloroethene	10.0	9.47		ug/L		95	70 - 122

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-159132-1

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

Lab Sample ID: LCS 240-512497/4
Matrix: Water
Analysis Batch: 512497

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	10.0	10.1		ug/L		101	60 - 144
Surrogate							
	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	93		62 - 137				
4-Bromofluorobenzene (Surr)	93		56 - 136				
Toluene-d8 (Surr)	113		78 - 122				
Dibromofluoromethane (Surr)	95		73 - 120				

Lab Sample ID: 240-159185-C-26 MS
Matrix: Water
Analysis Batch: 512497

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	330	U F2	3330	2620		ug/L		79	56 - 135
cis-1,2-Dichloroethene	7100		3330	9520		ug/L		72	66 - 128
Tetrachloroethene	330	U F2	3330	2780		ug/L		84	62 - 131
trans-1,2-Dichloroethene	330	U	3330	2870		ug/L		86	56 - 136
Trichloroethene	8300	F1	3330	10000	F1	ug/L		51	61 - 124
Vinyl chloride	330	U	3330	2880		ug/L		86	43 - 157
Surrogate									
	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	89		62 - 137						
4-Bromofluorobenzene (Surr)	83		56 - 136						
Toluene-d8 (Surr)	111		78 - 122						
Dibromofluoromethane (Surr)	87		73 - 120						

Lab Sample ID: 240-159185-C-26 MSD
Matrix: Water
Analysis Batch: 512497

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	330	U F2	3330	3430	F2	ug/L		103	56 - 135	27	26
cis-1,2-Dichloroethene	7100		3330	10100		ug/L		90	66 - 128	6	14
Tetrachloroethene	330	U F2	3330	3500	F2	ug/L		105	62 - 131	23	20
trans-1,2-Dichloroethene	330	U	3330	3270		ug/L		98	56 - 136	13	15
Trichloroethene	8300	F1	3330	10700		ug/L		71	61 - 124	6	15
Vinyl chloride	330	U	3330	3410		ug/L		102	43 - 157	17	24
Surrogate											
	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	92		62 - 137								
4-Bromofluorobenzene (Surr)	90		56 - 136								
Toluene-d8 (Surr)	109		78 - 122								
Dibromofluoromethane (Surr)	90		73 - 120								

QC Sample Results

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

Job ID: 240-159132-1

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

Lab Sample ID: MB 240-512676/6
Matrix: Water
Analysis Batch: 512676

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/12/21 11:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/12/21 11:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/12/21 11:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/12/21 11:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/12/21 11:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/12/21 11:58	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	97		62 - 137		11/12/21 11:58	1
4-Bromofluorobenzene (Surr)	83		56 - 136		11/12/21 11:58	1
Toluene-d8 (Surr)	111		78 - 122		11/12/21 11:58	1
Dibromofluoromethane (Surr)	96		73 - 120		11/12/21 11:58	1

Lab Sample ID: LCS 240-512676/4
Matrix: Water
Analysis Batch: 512676

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1-Dichloroethene	10.0	9.69		ug/L		97	63 - 134
cis-1,2-Dichloroethene	10.0	10.3		ug/L		103	77 - 123
Tetrachloroethene	10.0	10.2		ug/L		102	76 - 123
trans-1,2-Dichloroethene	10.0	10.4		ug/L		104	75 - 124
Trichloroethene	10.0	9.00		ug/L		90	70 - 122
Vinyl chloride	10.0	10.0		ug/L		100	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	90		56 - 136
Toluene-d8 (Surr)	112		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120

Lab Sample ID: 240-159556-B-7 MS
Matrix: Water
Analysis Batch: 512676

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

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	10	U	100	85.8		ug/L		86	56 - 135
cis-1,2-Dichloroethene	10	U	100	94.5		ug/L		94	66 - 128
Tetrachloroethene	260	F1	100	308	F1	ug/L		52	62 - 131
trans-1,2-Dichloroethene	10	U	100	95.2		ug/L		95	56 - 136
Trichloroethene	10	U	100	78.2		ug/L		78	61 - 124
Vinyl chloride	10	U	100	89.4		ug/L		89	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	92		62 - 137
4-Bromofluorobenzene (Surr)	88		56 - 136
Toluene-d8 (Surr)	106		78 - 122

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-159132-1

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

Lab Sample ID: 240-159556-B-7 MS
Matrix: Water
Analysis Batch: 512676

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

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	91		73 - 120

Lab Sample ID: 240-159556-B-7 MSD
Matrix: Water
Analysis Batch: 512676

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	10	U	100	108		ug/L		108	56 - 135	23	26
cis-1,2-Dichloroethene	10	U	100	102		ug/L		102	66 - 128	8	14
Tetrachloroethene	260	F1	100	325		ug/L		69	62 - 131	5	20
trans-1,2-Dichloroethene	10	U	100	103		ug/L		103	56 - 136	8	15
Trichloroethene	10	U	100	87.1		ug/L		87	61 - 124	11	15
Vinyl chloride	10	U	100	103		ug/L		103	43 - 157	15	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
4-Bromofluorobenzene (Surr)	84		56 - 136
Toluene-d8 (Surr)	109		78 - 122
Dibromofluoromethane (Surr)	93		73 - 120

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

Lab Sample ID: MB 240-511462/5
Matrix: Water
Analysis Batch: 511462

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/04/21 15:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		66 - 120		11/04/21 15:32	1

Lab Sample ID: LCS 240-511462/4
Matrix: Water
Analysis Batch: 511462

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	9.58		ug/L		96	80 - 122

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

Lab Sample ID: 240-159143-G-3 MS
Matrix: Water
Analysis Batch: 511462

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	9.25		ug/L		92	51 - 153

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-159132-1

Method: 8260B 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: 240-159143-M-3 MSD
Matrix: Water
Analysis Batch: 511462

Client Sample ID: Matrix Spike Duplicate
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	9.63		ug/L		96	51 - 153	4	16

<i>Surrogate</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	89		66 - 120

- 1
- 2
- 3
- 4
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- 9
- 10
- 11
- 12
- 13
- 14

QC Association Summary

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

Job ID: 240-159132-1

GC/MS VOA

Analysis Batch: 511462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159132-2	MW-04_110121	Total/NA	Water	8260B SIM	
240-159132-3	MW-05_110121	Total/NA	Water	8260B SIM	
240-159132-4	MW-03_110121	Total/NA	Water	8260B SIM	
240-159132-5	MW-02_110121	Total/NA	Water	8260B SIM	
240-159132-6	MW-10_110121	Total/NA	Water	8260B SIM	
MB 240-511462/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-511462/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-159143-G-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-159143-M-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 512327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159132-1	TRIP BLANK_01	Total/NA	Water	8260B	
240-159132-3	MW-05_110121	Total/NA	Water	8260B	
240-159132-4	MW-03_110121	Total/NA	Water	8260B	
MB 240-512327/6	Method Blank	Total/NA	Water	8260B	
LCS 240-512327/4	Lab Control Sample	Total/NA	Water	8260B	
240-159143-E-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
240-159143-H-3 MS	Matrix Spike	Total/NA	Water	8260B	

Analysis Batch: 512497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159132-2	MW-04_110121	Total/NA	Water	8260B	
240-159132-5	MW-02_110121	Total/NA	Water	8260B	
240-159132-6	MW-10_110121	Total/NA	Water	8260B	
MB 240-512497/6	Method Blank	Total/NA	Water	8260B	
LCS 240-512497/4	Lab Control Sample	Total/NA	Water	8260B	
240-159185-C-26 MS	Matrix Spike	Total/NA	Water	8260B	
240-159185-C-26 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 512676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159132-5	MW-02_110121	Total/NA	Water	8260B	
240-159132-6	MW-10_110121	Total/NA	Water	8260B	
MB 240-512676/6	Method Blank	Total/NA	Water	8260B	
LCS 240-512676/4	Lab Control Sample	Total/NA	Water	8260B	
240-159556-B-7 MS	Matrix Spike	Total/NA	Water	8260B	
240-159556-B-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Lab Chronicle

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

Job ID: 240-159132-1

Client Sample ID: TRIP BLANK_01

Lab Sample ID: 240-159132-1

Date Collected: 11/01/21 00:00

Matrix: Water

Date Received: 11/03/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	512327	11/11/21 01:27	LEE	TAL CAN

Client Sample ID: MW-04_110121

Lab Sample ID: 240-159132-2

Date Collected: 11/01/21 10:46

Matrix: Water

Date Received: 11/03/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		333.33	512497	11/11/21 17:53	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	511462	11/04/21 20:49	CS	TAL CAN

Client Sample ID: MW-05_110121

Lab Sample ID: 240-159132-3

Date Collected: 11/01/21 12:08

Matrix: Water

Date Received: 11/03/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	512327	11/11/21 01:50	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	511462	11/04/21 21:13	CS	TAL CAN

Client Sample ID: MW-03_110121

Lab Sample ID: 240-159132-4

Date Collected: 11/01/21 14:13

Matrix: Water

Date Received: 11/03/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	512327	11/11/21 02:12	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	511462	11/04/21 21:37	CS	TAL CAN

Client Sample ID: MW-02_110121

Lab Sample ID: 240-159132-5

Date Collected: 11/01/21 15:22

Matrix: Water

Date Received: 11/03/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	512497	11/11/21 18:16	LEE	TAL CAN
Total/NA	Analysis	8260B		200	512676	11/12/21 16:48	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	511462	11/04/21 22:01	CS	TAL CAN

Client Sample ID: MW-10_110121

Lab Sample ID: 240-159132-6

Date Collected: 11/01/21 16:42

Matrix: Water

Date Received: 11/03/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	512497	11/11/21 18:38	LEE	TAL CAN
Total/NA	Analysis	8260B		200	512676	11/12/21 17:10	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	511462	11/04/21 22:25	CS	TAL CAN

Lab Chronicle

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

Job ID: 240-159132-1

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Accreditation/Certification Summary

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

Job ID: 240-159132-1

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-22
Iowa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-22
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-18-10	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21



Eurofins TestAmerica Canton Sample Receipt Form/Narrative

Login # : 159132

Canton Facility

Client ARCADES Site Name
Cooler Received on 11/3/21 Opened on 11/3/21
FedEx 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Cooler unpacked by Matthew Surma

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

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

1 Cooler temperature upon receipt See Multiple Cooler Form
IR GUN# IR-14 (CF +0.1 °C) Observed Cooler Temp 0.1 °C Corrected Cooler Temp 0.2 °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
Were the seals on the outside of the cooler(s) signed & dated?
Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?
-Were tamper/custody seals intact and uncompromised?

3 Shippers packing slip attached to the cooler(s)?

4 Did custody papers accompany the sample(s)?

5 Were the custody papers relinquished & signed in the appropriate place?

6 Was/were the person(s) who collected the samples clearly identified on the COC? BB

7 Did all bottles arrive in good condition (Unbroken)?

8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?

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?

11 Sufficient quantity received to perform indicated analyses?

12 Are these work share samples and all listed on the COC? BB

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? Larger than this Yes No NA

16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 01042016 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

trip blank does not receive sealed SIM BB

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