

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
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Tel: (330)497-9396

Laboratory Job ID: 240-149977-1
Client Project/Site: Ford LTP - On Site
Revision: 1

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

Attn: Kristoffer Hinskey



Authorized for release by:
6/22/2021 11:37:17 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: 240-149977-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
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: 240-149977-1

Job ID: 240-149977-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-149977-1

Comments

No additional comments.

Receipt

The samples were received on 5/22/2021 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 1.9° C.

GC/MS VOA

Method 8260B: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to Vinyl chloride dilution. Both sets of data will be reported.

PW-16-02_052021 (240-149977-5).

Method 8260B SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 240-488395.

Method 8260B SIM: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: TW-16-03_052021 (240-149977-4). Elevated reporting limits (RLs) are provided.

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 - On Site

Job ID: 240-149977-1

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

Protocol References:

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

Laboratory References:

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



Sample Summary

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

Job ID: 240-149977-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-149977-1	TRIP BLANK_109	Water	05/20/21 00:00	05/22/21 08:00	
240-149977-2	MW-32_052021	Water	05/20/21 09:55	05/22/21 08:00	
240-149977-3	TW-16-04_052021	Water	05/20/21 12:05	05/22/21 08:00	
240-149977-4	TW-16-03_052021	Water	05/20/21 13:38	05/22/21 08:00	
240-149977-5	PW-16-02_052021	Water	05/20/21 14:48	05/22/21 08:00	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

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

Job ID: 240-149977-1

Client Sample ID: TRIP BLANK_109

Lab Sample ID: 240-149977-1

No Detections.

Client Sample ID: MW-32_052021

Lab Sample ID: 240-149977-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.40	J	1.0	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: TW-16-04_052021

Lab Sample ID: 240-149977-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.7		2.0	0.32	ug/L	2		8260B	Total/NA
Vinyl chloride	20		2.0	0.40	ug/L	2		8260B	Total/NA

Client Sample ID: TW-16-03_052021

Lab Sample ID: 240-149977-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	25		2.5	0.40	ug/L	2.5		8260B	Total/NA
Vinyl chloride	46		2.5	0.50	ug/L	2.5		8260B	Total/NA

Client Sample ID: PW-16-02_052021

Lab Sample ID: 240-149977-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride - RA	41	H	2.0	0.40	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene - RRA	19		1.0	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride - RRA	52	E	1.0	0.20	ug/L	1		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: 240-149977-1

Client Sample ID: TRIP BLANK_109

Lab Sample ID: 240-149977-1

Date Collected: 05/20/21 00:00

Matrix: Water

Date Received: 05/22/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/01/21 23:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/01/21 23:56	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/01/21 23:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/01/21 23:56	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/01/21 23:56	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/01/21 23:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		75 - 130		06/01/21 23:56	1
4-Bromofluorobenzene (Surr)	91		47 - 134		06/01/21 23:56	1
Toluene-d8 (Surr)	98		69 - 122		06/01/21 23:56	1
Dibromofluoromethane (Surr)	89		78 - 129		06/01/21 23:56	1

Client Sample Results

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

Job ID: 240-149977-1

Client Sample ID: MW-32_052021

Lab Sample ID: 240-149977-2

Date Collected: 05/20/21 09:55

Matrix: Water

Date Received: 05/22/21 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			06/01/21 22:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		70 - 133		06/01/21 22:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/21 20:54	1
cis-1,2-Dichloroethene	0.40	J	1.0	0.16	ug/L			06/02/21 20:54	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/02/21 20:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/21 20:54	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/02/21 20:54	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/02/21 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		75 - 130		06/02/21 20:54	1
4-Bromofluorobenzene (Surr)	91		47 - 134		06/02/21 20:54	1
Toluene-d8 (Surr)	102		69 - 122		06/02/21 20:54	1
Dibromofluoromethane (Surr)	94		78 - 129		06/02/21 20:54	1

Client Sample Results

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

Job ID: 240-149977-1

Client Sample ID: TW-16-04_052021

Lab Sample ID: 240-149977-3

Date Collected: 05/20/21 12:05

Matrix: Water

Date Received: 05/22/21 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			06/01/21 22:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		70 - 133					06/01/21 22:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	2.0	U	2.0	0.38	ug/L			06/02/21 21:19	2
cis-1,2-Dichloroethene	8.7		2.0	0.32	ug/L			06/02/21 21:19	2
Tetrachloroethene	2.0	U	2.0	0.30	ug/L			06/02/21 21:19	2
trans-1,2-Dichloroethene	2.0	U	2.0	0.38	ug/L			06/02/21 21:19	2
Trichloroethene	2.0	U	2.0	0.20	ug/L			06/02/21 21:19	2
Vinyl chloride	20		2.0	0.40	ug/L			06/02/21 21:19	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		75 - 130					06/02/21 21:19	2
4-Bromofluorobenzene (Surr)	89		47 - 134					06/02/21 21:19	2
Toluene-d8 (Surr)	100		69 - 122					06/02/21 21:19	2
Dibromofluoromethane (Surr)	88		78 - 129					06/02/21 21:19	2

Client Sample Results

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

Job ID: 240-149977-1

Client Sample ID: TW-16-03_052021

Lab Sample ID: 240-149977-4

Date Collected: 05/20/21 13:38

Matrix: Water

Date Received: 05/22/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	4.0	U	4.0	1.7	ug/L			06/01/21 23:07	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		70 - 133					06/01/21 23:07	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	2.5	U	2.5	0.48	ug/L			06/02/21 21:45	2.5
cis-1,2-Dichloroethene	25		2.5	0.40	ug/L			06/02/21 21:45	2.5
Tetrachloroethene	2.5	U	2.5	0.38	ug/L			06/02/21 21:45	2.5
trans-1,2-Dichloroethene	2.5	U	2.5	0.48	ug/L			06/02/21 21:45	2.5
Trichloroethene	2.5	U	2.5	0.25	ug/L			06/02/21 21:45	2.5
Vinyl chloride	46		2.5	0.50	ug/L			06/02/21 21:45	2.5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		75 - 130					06/02/21 21:45	2.5
4-Bromofluorobenzene (Surr)	90		47 - 134					06/02/21 21:45	2.5
Toluene-d8 (Surr)	102		69 - 122					06/02/21 21:45	2.5
Dibromofluoromethane (Surr)	90		78 - 129					06/02/21 21:45	2.5

Client Sample Results

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

Job ID: 240-149977-1

Client Sample ID: PW-16-02_052021

Lab Sample ID: 240-149977-5

Date Collected: 05/20/21 14:48

Matrix: Water

Date Received: 05/22/21 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			06/01/21 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		70 - 133		06/01/21 23:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	41	H	2.0	0.40	ug/L			06/11/21 13:57	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 130		06/11/21 13:57	2
4-Bromofluorobenzene (Surr)	117		47 - 134		06/11/21 13:57	2
Toluene-d8 (Surr)	104		69 - 122		06/11/21 13:57	2
Dibromofluoromethane (Surr)	104		78 - 129		06/11/21 13:57	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/21 22:09	1
cis-1,2-Dichloroethene	19		1.0	0.16	ug/L			06/02/21 22:09	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/02/21 22:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/21 22:09	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/02/21 22:09	1
Vinyl chloride	52	E	1.0	0.20	ug/L			06/02/21 22:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		75 - 130		06/02/21 22:09	1
4-Bromofluorobenzene (Surr)	89		47 - 134		06/02/21 22:09	1
Toluene-d8 (Surr)	102		69 - 122		06/02/21 22:09	1
Dibromofluoromethane (Surr)	88		78 - 129		06/02/21 22:09	1

Surrogate Summary

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

Job ID: 240-149977-1

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 (75-130)	BFB (47-134)	TOL (69-122)	DBFM (78-129)
240-149975-E-2 MS	Matrix Spike	81	95	96	86
240-149975-F-2 MSD	Matrix Spike Duplicate	81	95	98	89
240-149976-Q-3 MS	Matrix Spike	84	97	99	93
240-149976-R-3 MSD	Matrix Spike Duplicate	82	90	100	93
240-149977-1	TRIP BLANK_109	82	91	98	89
240-149977-2	MW-32_052021	83	91	102	94
240-149977-3	TW-16-04_052021	78	89	100	88
240-149977-4	TW-16-03_052021	83	90	102	90
240-149977-5 - RRA	PW-16-02_052021	80	89	102	88
240-149977-5 - RA	PW-16-02_052021	96	117	104	104
240-150953-A-4 MS	Matrix Spike	91	115	104	105
240-150953-A-4 MSD	Matrix Spike Duplicate	94	123	105	107
LCS 240-488334/4	Lab Control Sample	79	94	98	87
LCS 240-488605/4	Lab Control Sample	79	96	98	91
LCS 240-490195/4	Lab Control Sample	94	126	104	107
MB 240-488334/7	Method Blank	79	94	98	86
MB 240-488605/7	Method Blank	80	91	101	89
MB 240-490195/7	Method Blank	94	120	101	102

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 (70-133)
240-149977-2	MW-32_052021	87
240-149977-3	TW-16-04_052021	86
240-149977-4	TW-16-03_052021	85
240-149977-5	PW-16-02_052021	82
LCS 240-488395/4	Lab Control Sample	83
MB 240-488395/5	Method Blank	84

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-149977-1

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

Lab Sample ID: MB 240-488334/7
Matrix: Water
Analysis Batch: 488334

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/01/21 15:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/01/21 15:33	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/01/21 15:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/01/21 15:33	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/01/21 15:33	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/01/21 15:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		75 - 130		06/01/21 15:33	1
4-Bromofluorobenzene (Surr)	94		47 - 134		06/01/21 15:33	1
Toluene-d8 (Surr)	98		69 - 122		06/01/21 15:33	1
Dibromofluoromethane (Surr)	86		78 - 129		06/01/21 15:33	1

Lab Sample ID: LCS 240-488334/4
Matrix: Water
Analysis Batch: 488334

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	7.62		ug/L		76	73 - 129
cis-1,2-Dichloroethene	10.0	9.99		ug/L		100	75 - 124
Tetrachloroethene	10.0	11.2		ug/L		112	70 - 125
trans-1,2-Dichloroethene	10.0	8.80		ug/L		88	74 - 130
Trichloroethene	10.0	9.49		ug/L		95	71 - 121
Vinyl chloride	10.0	11.3		ug/L		113	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	79		75 - 130
4-Bromofluorobenzene (Surr)	94		47 - 134
Toluene-d8 (Surr)	98		69 - 122
Dibromofluoromethane (Surr)	87		78 - 129

Lab Sample ID: 240-149975-E-2 MS
Matrix: Water
Analysis Batch: 488334

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	10.0	7.15		ug/L		72	64 - 132
cis-1,2-Dichloroethene	1.0	U	10.0	9.23		ug/L		92	68 - 121
Tetrachloroethene	1.0	U	10.0	10.1		ug/L		101	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	8.39		ug/L		84	69 - 126
Trichloroethene	1.0	U	10.0	9.30		ug/L		93	56 - 124
Vinyl chloride	1.0	U	10.0	11.1		ug/L		111	49 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	81		75 - 130
4-Bromofluorobenzene (Surr)	95		47 - 134
Toluene-d8 (Surr)	96		69 - 122

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-149977-1

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

Lab Sample ID: 240-149975-E-2 MS
Matrix: Water
Analysis Batch: 488334

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
<i>Dibromofluoromethane (Surr)</i>	86		78 - 129

Lab Sample ID: 240-149975-F-2 MSD
Matrix: Water
Analysis Batch: 488334

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>
1,1-Dichloroethene	1.0	U	10.0	6.94		ug/L		69	64 - 132	3	35
cis-1,2-Dichloroethene	1.0	U	10.0	9.23		ug/L		92	68 - 121	0	35
Tetrachloroethene	1.0	U	10.0	10.1		ug/L		101	52 - 129	0	35
trans-1,2-Dichloroethene	1.0	U	10.0	8.54		ug/L		85	69 - 126	2	35
Trichloroethene	1.0	U	10.0	8.76		ug/L		88	56 - 124	6	35
Vinyl chloride	1.0	U	10.0	11.8		ug/L		118	49 - 136	7	35

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	81		75 - 130
<i>4-Bromofluorobenzene (Surr)</i>	95		47 - 134
<i>Toluene-d8 (Surr)</i>	98		69 - 122
<i>Dibromofluoromethane (Surr)</i>	89		78 - 129

Lab Sample ID: MB 240-488605/7
Matrix: Water
Analysis Batch: 488605

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	0.19	ug/L			06/02/21 14:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/02/21 14:58	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/02/21 14:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/21 14:58	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/02/21 14:58	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/02/21 14:58	1

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	80		75 - 130		06/02/21 14:58	1
<i>4-Bromofluorobenzene (Surr)</i>	91		47 - 134		06/02/21 14:58	1
<i>Toluene-d8 (Surr)</i>	101		69 - 122		06/02/21 14:58	1
<i>Dibromofluoromethane (Surr)</i>	89		78 - 129		06/02/21 14:58	1

Lab Sample ID: LCS 240-488605/4
Matrix: Water
Analysis Batch: 488605

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	7.56		ug/L		76	73 - 129
cis-1,2-Dichloroethene	10.0	9.40		ug/L		94	75 - 124
Tetrachloroethene	10.0	9.99		ug/L		100	70 - 125
trans-1,2-Dichloroethene	10.0	8.91		ug/L		89	74 - 130
Trichloroethene	10.0	9.37		ug/L		94	71 - 121

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-149977-1

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

Lab Sample ID: LCS 240-488605/4
Matrix: Water
Analysis Batch: 488605

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	10.3		ug/L		103	61 - 134
Surrogate							
	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	79		75 - 130				
4-Bromofluorobenzene (Surr)	96		47 - 134				
Toluene-d8 (Surr)	98		69 - 122				
Dibromofluoromethane (Surr)	91		78 - 129				

Lab Sample ID: 240-149976-Q-3 MS
Matrix: Water
Analysis Batch: 488605

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	10.0	7.54		ug/L		75	64 - 132
cis-1,2-Dichloroethene	1.0	U	10.0	8.96		ug/L		90	68 - 121
Tetrachloroethene	1.0	U	10.0	9.79		ug/L		98	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	8.42		ug/L		84	69 - 126
Trichloroethene	1.0	U	10.0	8.79		ug/L		88	56 - 124
Vinyl chloride	1.0	U	10.0	11.1		ug/L		111	49 - 136
Surrogate									
	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	84		75 - 130						
4-Bromofluorobenzene (Surr)	97		47 - 134						
Toluene-d8 (Surr)	99		69 - 122						
Dibromofluoromethane (Surr)	93		78 - 129						

Lab Sample ID: 240-149976-R-3 MSD
Matrix: Water
Analysis Batch: 488605

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	1.0	U	10.0	7.43		ug/L		74	64 - 132	2	35
cis-1,2-Dichloroethene	1.0	U	10.0	9.27		ug/L		93	68 - 121	3	35
Tetrachloroethene	1.0	U	10.0	9.76		ug/L		98	52 - 129	0	35
trans-1,2-Dichloroethene	1.0	U	10.0	8.74		ug/L		87	69 - 126	4	35
Trichloroethene	1.0	U	10.0	8.80		ug/L		88	56 - 124	0	35
Vinyl chloride	1.0	U	10.0	11.3		ug/L		113	49 - 136	1	35
Surrogate											
	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	82		75 - 130								
4-Bromofluorobenzene (Surr)	90		47 - 134								
Toluene-d8 (Surr)	100		69 - 122								
Dibromofluoromethane (Surr)	93		78 - 129								

QC Sample Results

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

Job ID: 240-149977-1

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

Lab Sample ID: MB 240-490195/7
Matrix: Water
Analysis Batch: 490195

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/11/21 13:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/11/21 13:16	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/11/21 13:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/11/21 13:16	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/11/21 13:16	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/11/21 13:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		75 - 130		06/11/21 13:16	1
4-Bromofluorobenzene (Surr)	120		47 - 134		06/11/21 13:16	1
Toluene-d8 (Surr)	101		69 - 122		06/11/21 13:16	1
Dibromofluoromethane (Surr)	102		78 - 129		06/11/21 13:16	1

Lab Sample ID: LCS 240-490195/4
Matrix: Water
Analysis Batch: 490195

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	10.9		ug/L		109	73 - 129
cis-1,2-Dichloroethene	10.0	10.9		ug/L		109	75 - 124
Tetrachloroethene	10.0	9.98		ug/L		100	70 - 125
trans-1,2-Dichloroethene	10.0	10.9		ug/L		109	74 - 130
Trichloroethene	10.0	10.7		ug/L		107	71 - 121
Vinyl chloride	10.0	9.43		ug/L		94	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		75 - 130
4-Bromofluorobenzene (Surr)	126		47 - 134
Toluene-d8 (Surr)	104		69 - 122
Dibromofluoromethane (Surr)	107		78 - 129

Lab Sample ID: 240-150953-A-4 MS
Matrix: Water
Analysis Batch: 490195

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	25		100	136		ug/L		111	64 - 132
cis-1,2-Dichloroethene	250	F1	100	366		ug/L		119	68 - 121
Tetrachloroethene	270		100	368		ug/L		96	52 - 129
trans-1,2-Dichloroethene	8.6	J	100	119		ug/L		111	69 - 126
Trichloroethene	100		100	217		ug/L		113	56 - 124
Vinyl chloride	24		100	111		ug/L		87	49 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		75 - 130
4-Bromofluorobenzene (Surr)	115		47 - 134
Toluene-d8 (Surr)	104		69 - 122

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-149977-1

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

Lab Sample ID: 240-150953-A-4 MS
Matrix: Water
Analysis Batch: 490195

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	105		78 - 129

Lab Sample ID: 240-150953-A-4 MSD
Matrix: Water
Analysis Batch: 490195

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	25		100	137		ug/L		112	64 - 132	0	35
cis-1,2-Dichloroethene	250	F1	100	371	F1	ug/L		124	68 - 121	1	35
Tetrachloroethene	270		100	373		ug/L		101	52 - 129	1	35
trans-1,2-Dichloroethene	8.6	J	100	121		ug/L		112	69 - 126	1	35
Trichloroethene	100		100	218		ug/L		114	56 - 124	1	35
Vinyl chloride	24		100	118		ug/L		94	49 - 136	6	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		75 - 130
4-Bromofluorobenzene (Surr)	123		47 - 134
Toluene-d8 (Surr)	105		69 - 122
Dibromofluoromethane (Surr)	107		78 - 129

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

Lab Sample ID: MB 240-488395/5
Matrix: Water
Analysis Batch: 488395

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			06/01/21 15:27	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)	84		70 - 133		06/01/21 15:27	1

Lab Sample ID: LCS 240-488395/4
Matrix: Water
Analysis Batch: 488395

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	9.79		ug/L		98	80 - 135

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		70 - 133

QC Association Summary

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

Job ID: 240-149977-1

GC/MS VOA

Analysis Batch: 488334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149977-1	TRIP BLANK_109	Total/NA	Water	8260B	
MB 240-488334/7	Method Blank	Total/NA	Water	8260B	
LCS 240-488334/4	Lab Control Sample	Total/NA	Water	8260B	
240-149975-E-2 MS	Matrix Spike	Total/NA	Water	8260B	
240-149975-F-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 488395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149977-2	MW-32_052021	Total/NA	Water	8260B SIM	
240-149977-3	TW-16-04_052021	Total/NA	Water	8260B SIM	
240-149977-4	TW-16-03_052021	Total/NA	Water	8260B SIM	
240-149977-5	PW-16-02_052021	Total/NA	Water	8260B SIM	
MB 240-488395/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-488395/4	Lab Control Sample	Total/NA	Water	8260B SIM	

Analysis Batch: 488605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149977-2	MW-32_052021	Total/NA	Water	8260B	
240-149977-3	TW-16-04_052021	Total/NA	Water	8260B	
240-149977-4	TW-16-03_052021	Total/NA	Water	8260B	
240-149977-5 - RRA	PW-16-02_052021	Total/NA	Water	8260B	
MB 240-488605/7	Method Blank	Total/NA	Water	8260B	
LCS 240-488605/4	Lab Control Sample	Total/NA	Water	8260B	
240-149976-Q-3 MS	Matrix Spike	Total/NA	Water	8260B	
240-149976-R-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 490195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149977-5 - RA	PW-16-02_052021	Total/NA	Water	8260B	
MB 240-490195/7	Method Blank	Total/NA	Water	8260B	
LCS 240-490195/4	Lab Control Sample	Total/NA	Water	8260B	
240-150953-A-4 MS	Matrix Spike	Total/NA	Water	8260B	
240-150953-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Lab Chronicle

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

Job ID: 240-149977-1

Client Sample ID: TRIP BLANK_109

Lab Sample ID: 240-149977-1

Date Collected: 05/20/21 00:00

Matrix: Water

Date Received: 05/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	488334	06/01/21 23:56	LRW	TAL CAN

Client Sample ID: MW-32_052021

Lab Sample ID: 240-149977-2

Date Collected: 05/20/21 09:55

Matrix: Water

Date Received: 05/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	488605	06/02/21 20:54	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	488395	06/01/21 22:17	CS	TAL CAN

Client Sample ID: TW-16-04_052021

Lab Sample ID: 240-149977-3

Date Collected: 05/20/21 12:05

Matrix: Water

Date Received: 05/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	488605	06/02/21 21:19	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	488395	06/01/21 22:42	CS	TAL CAN

Client Sample ID: TW-16-03_052021

Lab Sample ID: 240-149977-4

Date Collected: 05/20/21 13:38

Matrix: Water

Date Received: 05/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2.5	488605	06/02/21 21:45	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		2	488395	06/01/21 23:07	CS	TAL CAN

Client Sample ID: PW-16-02_052021

Lab Sample ID: 240-149977-5

Date Collected: 05/20/21 14:48

Matrix: Water

Date Received: 05/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RRA	1	488605	06/02/21 22:09	LRW	TAL CAN
Total/NA	Analysis	8260B	RA	2	490195	06/11/21 13:57	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	488395	06/01/21 23:31	CS	TAL CAN

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 240-149977-1

Laboratory: Eurofins TestAmerica, Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-21
Iowa	State	421	06-01-21 *
Kansas	NELAP	E-10336	04-30-21 *
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

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



19119

Chain of Custody Record

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 Site Contact: Julia McClafferty

Telephone: 248-994-2240 Telephone: 734-644-5131

Email: kristoffer.hinskey@arcadis.com

Sampler Name: S. Boon

Method of Shipment/Carrier: UPS

Shipping/Tracking No: 30080642.401.03

Company Name: Arcadis Client Contact: Mike DelMonico

Address: 28550 Cabot Drive, Suite 500

City/State/Zip: Novi, MI 48377

Phone: 248-994-2240

Project Name: Ford I TP On-Site

Project Number: 30080642.401.03

PO # 30080642.401.03

Analysis Turnaround Time: 10 day

TAT if date out from below:

3 weeks 2 weeks 1 w ck 2 days 1 day

Containers & Preservatives:

Other: 1

Sample Date	Sample Time	Matrix				Containers & Preservatives							
		Air	Aqueous	Sediment	Solid	Other	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH	Other
---	---	X											
5/20/21	9:55	X											
5/20/21	12:05	X											
5/20/21	13:38	X											
5/20/21	14:18	X											

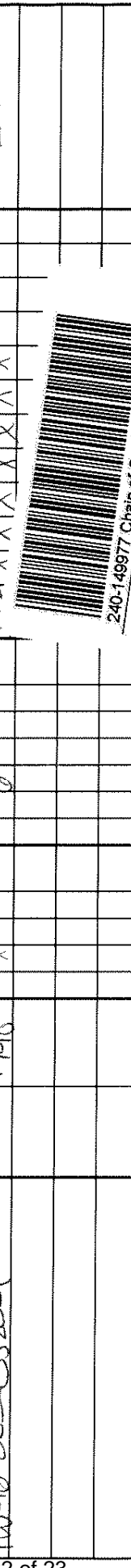
Sample Identification	Sample Date	Sample Time	Matrix	Containers & Preservatives	Filtered Sample (Y/N)	Composite C/Grab-G	1-DCE 8260B	cis-1-2-DCE 8260B	Trans-1-2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride 8260B	1,4-Dioxane 8260B SIM
TRIP BLANK-18	---	---			N/G		X	X	X	X	X	X	X
MW-16-01-052021	5/20/21	9:55					X	X	X	X	X	X	X
TW-16-01-052021	5/20/21	12:05					X	X	X	X	X	X	X
TW-16-03-052021	5/20/21	13:38					X	X	X	X	X	X	X
PW-16-02-052021	5/20/21	14:18					X	X	X	X	X	X	X

Sample Specific Notes: 1 Trip Blank

Special Instructions: 3 VOAs for 8260B
3 VOAs for 8260B SIM

Sample Disposal: 1 A fee may be assessed if samples are retained longer than 1 month

Return to Client Disposal By Lab Archive For 1 Months



240-149977 Chain of Custody

Relinquished by: [Signature] Date/Time: 5/20/21 16:00

Relinquished to: [Signature] Date/Time: 5/20/21 12:15

Relinquished by: [Signature] Date/Time: 5/20/21 15:29

Company: Arcadis Received by: [Signature]

Company: Arcadis Received by: [Signature]

Company: ETA Received by: [Signature]

Company: Arcadis Date/Time: 5/20/21 16:00

Company: Arcadis Date/Time: 5/20/21 12:15

Company: ETA Date/Time: 5/20/21 15:29

Company: Arcadis Date/Time: 5/20/21 16:00

Company: ETA Date/Time: 5/20/21 12:15

Company: ETA Date/Time: 5/20/21 08:00

Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 149977

Client ARCADIS Site Name FORN LTP Cooler unpacked by: MJL

Cooler Received on 5/22/21 Opened on 5/22/21

FedEx. 1st Grd Exp UPS FAS (Clipper) Client Drop Off TestAmerica Courier Other _____

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

TestAmerica Cooler # _____ 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 1.8 See Multiple Cooler Form
 IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. 1.5 °C Corrected Cooler Temp. 1.9 °C
 IR GUN #IR-12 (CF +0.2°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

TEMP CORRECTION BY MJL 5/25/21

- 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
- 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# HC022887
- 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 # 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 _____

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