

## ANALYTICAL REPORT

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

Laboratory Job ID: 240-162542-1  
Client Project/Site: Ford LTP - On-Site

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

Attn: Kristoffer Hinskey



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Authorized for release by:  
2/23/2022 9:43:32 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: 240-162542-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
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: 240-162542-1

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**Job ID: 240-162542-1**

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**Laboratory: Eurofins Canton**

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**Narrative**

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**Job Narrative  
240-162542-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 2/9/2022 12:55 PM. 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 1.3° C.

**GC/MS VOA**

Method 8260B SIM: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-21\_020722 (240-162542-3) and DUP-04 (240-162542-5). 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 additional 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: 240-162542-1

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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# Sample Summary

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

Job ID: 240-162542-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-162542-1	TRIP BLANK_72	Water	02/07/22 00:00	02/09/22 12:55
240-162542-2	MW-18_020722	Water	02/07/22 14:40	02/09/22 12:55
240-162542-3	MW-21_020722	Water	02/07/22 12:15	02/09/22 12:55
240-162542-4	MW-49_020722	Water	02/07/22 10:40	02/09/22 12:55
240-162542-5	DUP-04	Water	02/07/22 00:00	02/09/22 12:55

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- 10
- 11
- 12
- 13
- 14

# Detection Summary

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

Job ID: 240-162542-1

## Client Sample ID: TRIP BLANK\_72

Lab Sample ID: 240-162542-1

No Detections.

## Client Sample ID: MW-18\_020722

Lab Sample ID: 240-162542-2

No Detections.

## Client Sample ID: MW-21\_020722

Lab Sample ID: 240-162542-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	11		4.0	1.7	ug/L	2		8260B SIM	Total/NA
cis-1,2-Dichloroethene	1100		33	15	ug/L	33.333		8260B	Total/NA
Vinyl chloride	870		33	15	ug/L	33.333		8260B	Total/NA

## Client Sample ID: MW-49\_020722

Lab Sample ID: 240-162542-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	27		2.0	0.86	ug/L	1		8260B SIM	Total/NA
cis-1,2-Dichloroethene	58000		1000	460	ug/L	1000		8260B	Total/NA
Vinyl chloride	9500		1000	450	ug/L	1000		8260B	Total/NA

## Client Sample ID: DUP-04

Lab Sample ID: 240-162542-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	11		4.0	1.7	ug/L	2		8260B SIM	Total/NA
cis-1,2-Dichloroethene	1300		50	23	ug/L	50		8260B	Total/NA
Vinyl chloride	1000		50	23	ug/L	50		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

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

Job ID: 240-162542-1

**Client Sample ID: TRIP BLANK\_72**

**Lab Sample ID: 240-162542-1**

**Date Collected: 02/07/22 00:00**

**Matrix: Water**

**Date Received: 02/09/22 12:55**

**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			02/10/22 12:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/10/22 12:47	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/10/22 12:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/10/22 12:47	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/10/22 12:47	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/10/22 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		62 - 137		02/10/22 12:47	1
4-Bromofluorobenzene (Surr)	92		56 - 136		02/10/22 12:47	1
Toluene-d8 (Surr)	95		78 - 122		02/10/22 12:47	1
Dibromofluoromethane (Surr)	100		73 - 120		02/10/22 12:47	1



# Client Sample Results

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

Job ID: 240-162542-1

**Client Sample ID: MW-18\_020722**

**Lab Sample ID: 240-162542-2**

**Date Collected: 02/07/22 14:40**

**Matrix: Water**

**Date Received: 02/09/22 12:55**

**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			02/10/22 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		66 - 120		02/10/22 20:03	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			02/10/22 14:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/10/22 14:22	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/10/22 14:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/10/22 14:22	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/10/22 14:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/10/22 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137		02/10/22 14:22	1
4-Bromofluorobenzene (Surr)	94		56 - 136		02/10/22 14:22	1
Toluene-d8 (Surr)	95		78 - 122		02/10/22 14:22	1
Dibromofluoromethane (Surr)	102		73 - 120		02/10/22 14:22	1

# Client Sample Results

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

Job ID: 240-162542-1

**Client Sample ID: MW-21\_020722**

**Lab Sample ID: 240-162542-3**

Date Collected: 02/07/22 12:15

Matrix: Water

Date Received: 02/09/22 12:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	11		4.0	1.7	ug/L			02/10/22 20:28	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		66 - 120					02/10/22 20:28	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	33	U	33	16	ug/L			02/10/22 17:08	33.333
cis-1,2-Dichloroethene	1100		33	15	ug/L			02/10/22 17:08	33.333
Tetrachloroethene	33	U	33	15	ug/L			02/10/22 17:08	33.333
trans-1,2-Dichloroethene	33	U	33	17	ug/L			02/10/22 17:08	33.333
Trichloroethene	33	U	33	15	ug/L			02/10/22 17:08	33.333
Vinyl chloride	870		33	15	ug/L			02/10/22 17:08	33.333
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137					02/10/22 17:08	33.333
4-Bromofluorobenzene (Surr)	100		56 - 136					02/10/22 17:08	33.333
Toluene-d8 (Surr)	107		78 - 122					02/10/22 17:08	33.333
Dibromofluoromethane (Surr)	110		73 - 120					02/10/22 17:08	33.333

# Client Sample Results

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

Job ID: 240-162542-1

**Client Sample ID: MW-49\_020722**

**Lab Sample ID: 240-162542-4**

Date Collected: 02/07/22 10:40

Matrix: Water

Date Received: 02/09/22 12:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>27</b>		2.0	0.86	ug/L			02/10/22 20:53	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	78		66 - 120					02/10/22 20:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1000	U	1000	490	ug/L			02/10/22 15:10	1000
<b>cis-1,2-Dichloroethene</b>	<b>58000</b>		1000	460	ug/L			02/10/22 15:10	1000
Tetrachloroethene	1000	U	1000	440	ug/L			02/10/22 15:10	1000
trans-1,2-Dichloroethene	1000	U	1000	510	ug/L			02/10/22 15:10	1000
Trichloroethene	1000	U	1000	440	ug/L			02/10/22 15:10	1000
<b>Vinyl chloride</b>	<b>9500</b>		1000	450	ug/L			02/10/22 15:10	1000
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	90		62 - 137					02/10/22 15:10	1000
4-Bromofluorobenzene (Surr)	93		56 - 136					02/10/22 15:10	1000
Toluene-d8 (Surr)	95		78 - 122					02/10/22 15:10	1000
Dibromofluoromethane (Surr)	102		73 - 120					02/10/22 15:10	1000

# Client Sample Results

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

Job ID: 240-162542-1

**Client Sample ID: DUP-04**

**Lab Sample ID: 240-162542-5**

**Date Collected: 02/07/22 00:00**

**Matrix: Water**

**Date Received: 02/09/22 12:55**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>11</b>		4.0	1.7	ug/L			02/10/22 21:18	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		66 - 120		02/10/22 21:18	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	50	U	50	25	ug/L			02/10/22 15:33	50
<b>cis-1,2-Dichloroethene</b>	<b>1300</b>		50	23	ug/L			02/10/22 15:33	50
Tetrachloroethene	50	U	50	22	ug/L			02/10/22 15:33	50
trans-1,2-Dichloroethene	50	U	50	26	ug/L			02/10/22 15:33	50
Trichloroethene	50	U	50	22	ug/L			02/10/22 15:33	50
<b>Vinyl chloride</b>	<b>1000</b>		50	23	ug/L			02/10/22 15:33	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137		02/10/22 15:33	50
4-Bromofluorobenzene (Surr)	102		56 - 136		02/10/22 15:33	50
Toluene-d8 (Surr)	106		78 - 122		02/10/22 15:33	50
Dibromofluoromethane (Surr)	109		73 - 120		02/10/22 15:33	50

# Surrogate Summary

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

Job ID: 240-162542-1

## 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)
240-162542-1	TRIP BLANK_72	89	92	95	100
240-162542-2	MW-18_020722	91	94	95	102
240-162542-3	MW-21_020722	95	100	107	110
240-162542-3 MS	MW-21_020722	98	105	107	110
240-162542-3 MSD	MW-21_020722	100	105	109	111
240-162542-4	MW-49_020722	90	93	95	102
240-162542-5	DUP-04	96	102	106	109
LCS 240-517755/5	Lab Control Sample	88	99	103	101
MB 240-517755/7	Method Blank	91	98	101	103

**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)
240-162541-F-2 MS	Matrix Spike	76
240-162541-F-2 MSD	Matrix Spike Duplicate	80
240-162542-2	MW-18_020722	78
240-162542-3	MW-21_020722	79
240-162542-4	MW-49_020722	78
240-162542-5	DUP-04	81
LCS 240-517810/4	Lab Control Sample	80
MB 240-517810/5	Method Blank	80

**Surrogate Legend**  
DCA = 1,2-Dichloroethane-d4 (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 (10-150)
MRL 240-517810/6	Lab Control Sample	77

**Surrogate Legend**  
DCA = 1,2-Dichloroethane-d4 (Surr)

# QC Sample Results

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

Job ID: 240-162542-1

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

**Lab Sample ID: MB 240-517755/7**  
**Matrix: Water**  
**Analysis Batch: 517755**

**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			02/10/22 11:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/10/22 11:59	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/10/22 11:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/10/22 11:59	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/10/22 11:59	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/10/22 11:59	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	91		62 - 137		02/10/22 11:59	1
4-Bromofluorobenzene (Surr)	98		56 - 136		02/10/22 11:59	1
Toluene-d8 (Surr)	101		78 - 122		02/10/22 11:59	1
Dibromofluoromethane (Surr)	103		73 - 120		02/10/22 11:59	1

**Lab Sample ID: LCS 240-517755/5**  
**Matrix: Water**  
**Analysis Batch: 517755**

**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	25.0	27.9		ug/L		111	63 - 134
cis-1,2-Dichloroethene	25.0	25.4		ug/L		101	77 - 123
Tetrachloroethene	25.0	26.8		ug/L		107	76 - 123
trans-1,2-Dichloroethene	25.0	26.5		ug/L		106	75 - 124
Trichloroethene	25.0	25.2		ug/L		101	70 - 122
Vinyl chloride	25.0	22.9		ug/L		92	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	88		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

**Lab Sample ID: 240-162542-3 MS**  
**Matrix: Water**  
**Analysis Batch: 517755**

**Client Sample ID: MW-21\_020722**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	33	U	833	898		ug/L		108	56 - 135
cis-1,2-Dichloroethene	1100		833	1910		ug/L		103	66 - 128
Tetrachloroethene	33	U	833	842		ug/L		101	62 - 131
trans-1,2-Dichloroethene	33	U	833	844		ug/L		101	56 - 136
Trichloroethene	33	U	833	833		ug/L		100	61 - 124
Vinyl chloride	870		833	1570		ug/L		83	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	105		56 - 136
Toluene-d8 (Surr)	107		78 - 122

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# QC Sample Results

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

Job ID: 240-162542-1

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

**Lab Sample ID: 240-162542-3 MS**  
**Matrix: Water**  
**Analysis Batch: 517755**

**Client Sample ID: MW-21\_020722**  
**Prep Type: Total/NA**

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	110		73 - 120

**Lab Sample ID: 240-162542-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 517755**

**Client Sample ID: MW-21\_020722**  
**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	33	U	833	940		ug/L		113	56 - 135	5	26
cis-1,2-Dichloroethene	1100		833	1900		ug/L		102	66 - 128	0	14
Tetrachloroethene	33	U	833	847		ug/L		102	62 - 131	1	20
trans-1,2-Dichloroethene	33	U	833	866		ug/L		104	56 - 136	3	15
Trichloroethene	33	U	833	860		ug/L		103	61 - 124	3	15
Vinyl chloride	870		833	1600		ug/L		87	43 - 157	2	24

  

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	105		56 - 136
Toluene-d8 (Surr)	109		78 - 122
Dibromofluoromethane (Surr)	111		73 - 120

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

**Lab Sample ID: MB 240-517810/5**  
**Matrix: Water**  
**Analysis Batch: 517810**

**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			02/10/22 17:07	1

  

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		66 - 120		02/10/22 17:07	1

**Lab Sample ID: LCS 240-517810/4**  
**Matrix: Water**  
**Analysis Batch: 517810**

**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	9.38		ug/L		94	80 - 122

  

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		66 - 120

**Lab Sample ID: MRL 240-517810/6**  
**Matrix: Water**  
**Analysis Batch: 517810**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.00100	0.0020	U	ng/uL		83	10 - 150

Eurofins Canton

# QC Sample Results

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

Job ID: 240-162542-1

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

<i>Surrogate</i>	<i>MRL %Recovery</i>	<i>MRL Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	77		10 - 150

**Lab Sample ID: 240-162541-F-2 MS**  
**Matrix: Water**  
**Analysis Batch: 517810**

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

<b>Analyte</b>	<b>Sample Result</b>	<b>Sample Qualifier</b>	<b>Spike Added</b>	<b>MS Result</b>	<b>MS Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>%Rec. Limits</b>
1,4-Dioxane	2.0	U	10.0	10.1		ug/L		101	51 - 153

<i>Surrogate</i>	<i>MS %Recovery</i>	<i>MS Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	76		66 - 120

**Lab Sample ID: 240-162541-F-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 517810**

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

<b>Analyte</b>	<b>Sample Result</b>	<b>Sample Qualifier</b>	<b>Spike Added</b>	<b>MSD Result</b>	<b>MSD Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>%Rec. Limits</b>	<b>RPD</b>	<b>RPD Limit</b>
1,4-Dioxane	2.0	U	10.0	9.91		ug/L		99	51 - 153	2	16

<i>Surrogate</i>	<i>MSD %Recovery</i>	<i>MSD Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	80		66 - 120



# QC Association Summary

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

Job ID: 240-162542-1

## GC/MS VOA

### Analysis Batch: 517755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-162542-1	TRIP BLANK_72	Total/NA	Water	8260B	
240-162542-2	MW-18_020722	Total/NA	Water	8260B	
240-162542-3	MW-21_020722	Total/NA	Water	8260B	
240-162542-4	MW-49_020722	Total/NA	Water	8260B	
240-162542-5	DUP-04	Total/NA	Water	8260B	
MB 240-517755/7	Method Blank	Total/NA	Water	8260B	
LCS 240-517755/5	Lab Control Sample	Total/NA	Water	8260B	
240-162542-3 MS	MW-21_020722	Total/NA	Water	8260B	
240-162542-3 MSD	MW-21_020722	Total/NA	Water	8260B	

### Analysis Batch: 517810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-162542-2	MW-18_020722	Total/NA	Water	8260B SIM	
240-162542-3	MW-21_020722	Total/NA	Water	8260B SIM	
240-162542-4	MW-49_020722	Total/NA	Water	8260B SIM	
240-162542-5	DUP-04	Total/NA	Water	8260B SIM	
MB 240-517810/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-517810/4	Lab Control Sample	Total/NA	Water	8260B SIM	
MRL 240-517810/6	Lab Control Sample	Total/NA	Water	8260B SIM	
240-162541-F-2 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-162541-F-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

# Lab Chronicle

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

Job ID: 240-162542-1

**Client Sample ID: TRIP BLANK\_72**

**Lab Sample ID: 240-162542-1**

Date Collected: 02/07/22 00:00

Matrix: Water

Date Received: 02/09/22 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	517755	02/10/22 12:47	SAM	TAL CAN

**Client Sample ID: MW-18\_020722**

**Lab Sample ID: 240-162542-2**

Date Collected: 02/07/22 14:40

Matrix: Water

Date Received: 02/09/22 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	517755	02/10/22 14:22	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	517810	02/10/22 20:03	CS	TAL CAN

**Client Sample ID: MW-21\_020722**

**Lab Sample ID: 240-162542-3**

Date Collected: 02/07/22 12:15

Matrix: Water

Date Received: 02/09/22 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		33.333	517755	02/10/22 17:08	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		2	517810	02/10/22 20:28	CS	TAL CAN

**Client Sample ID: MW-49\_020722**

**Lab Sample ID: 240-162542-4**

Date Collected: 02/07/22 10:40

Matrix: Water

Date Received: 02/09/22 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1000	517755	02/10/22 15:10	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	517810	02/10/22 20:53	CS	TAL CAN

**Client Sample ID: DUP-04**

**Lab Sample ID: 240-162542-5**

Date Collected: 02/07/22 00:00

Matrix: Water

Date Received: 02/09/22 12:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	517755	02/10/22 15:33	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		2	517810	02/10/22 21:18	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 - On-Site

Job ID: 240-162542-1

## 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 / 810-229-2763

<b>Client Contact</b> Company Name: Arcadis Address: 28550 Cabot Drive, Suite 500 City/State/Zip: Novi, MI, 48377 Phone: 248-994-2240		<b>Regulatory program:</b> <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other	
<b>Client Project Manager: Kris Hinskey</b> Telephone: 248-994-2240 Email: kristoffer.hinskey@arcadis.com		<b>Lab Contact: Mike DelMonico</b> Telephone: 330-497-9396	
<b>Project Name: Ford LTP On-Site</b> Project Number: 30080642.401.03 PO # 30080642.401.03		<b>Site Contact: Julia McClafferty</b> Telephone: 734-644-5131	
<b>Sampler Name: Seth Turner</b> Method of Shipment/Carrier: Shipping/Tracking No:		<b>Analysis Turnaround Time</b> TAT if different from below: <input type="checkbox"/> 3 weeks <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day	
<b>Sample Identification</b> TRIP BLANK_72 MW-18-020722 MW-21-020722 MW-49-020722 DUF-04		<b>Containers &amp; Preservatives</b> H2SO4 HNO3 HCl NaOH ZnAc Other: X AH X AH X AH X AH X AH	
<b>Sample Date</b> 2/7/22 1440 2/7/22 1215 2/7/22 1040 2/7/22		<b>Matrix</b> Air Aqueous Sediment Solid Other: X X X X X	
<b>Sample Specific Notes / Special Instructions:</b> 1 Trip Blank 3 VOAs for 8260B 3 VOAs for 8260B SIM		<b>Filtered Sample (Y/N)</b> Composite=C / Grab=G 1-DCE 8260B X cis-1,2-DCE 8260B X Trans-1,2-DCE 8260B X PCE 8260B X TCE 8260B X Vinyl Chloride 8260B X 1,4-Dioxane 8260B SIM X	
<b>Possible Hazard Identification</b> <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
<b>Special Instructions/QC Requirements &amp; Comments:</b> Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728 Level IV Reporting requested.			
Relinquished by: Seth Turner Relinquished by: NOV Cold Storage Relinquished by: Duff		Received by: NOV Cold Storage Received by: Duff Received in Laboratory by: Amy Logan	
Company: Arcadis Company: Arcadis Company: Eurofins		Date/Time: 2/7/22 1530 Date/Time: 2/8/22 1000 Date/Time: 2-8-22 1310	
Company: Arcadis Company: Eurofins Company: EETNC		Date/Time: 2/7/22/1530 Date/Time: 2-8-22 1000 Date/Time: 2-9-22 1255	

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**Eurofins TestAmerica Canton Sample Receipt Form/Narrative** Login # : 162542  
**Canton Facility**

Client Arcadis Site Name \_\_\_\_\_ Cooler unpacked by: Nancy Boye  
Cooler Received on 2-9-22 Opened on 2-9-22  
FedEx: 1<sup>st</sup> Grd  Exp  UPS  FAS  Clipper  Client Drop Off  TestAmerica Courier  Other

**Receipt After-hours:** Drop-off Date/Time \_\_\_\_\_ Storage Location \_\_\_\_\_

TestAmerica Cooler # IA 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

- Cooler temperature upon receipt  See Multiple Cooler Form  
IR GUN# IR-14 (CF +0.1 °C) Observed Cooler Temp. 1.2 °C Corrected Cooler Temp. 1.3 °C  
IR GUN #IR-15 (CF +0.2°C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C
- 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  
-Were tamper/custody seals intact and uncompromised? Yes No NA
- Shippers' packing slip attached to the cooler(s)? Yes No
- Did custody papers accompany the sample(s)? Yes No
- Were the custody papers relinquished & signed in the appropriate place? Yes No
- Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
- Did all bottles arrive in good condition (Unbroken)? Yes No
- Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
- For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
- Were correct bottle(s) used for the test(s) indicated? Yes No
- Sufficient quantity received to perform indicated analyses? Yes No
- 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.

- Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC157842
- Were VOAs on the COC? Yes No
- Were air bubbles >6 mm in any VOA vials?  Larger than this. Yes No NA
- Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 60358 Yes No
- Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other \_\_\_\_\_  
Concerning \_\_\_\_\_

Tests that are not checked for pH by Receiving:  
VOAs  
Oil and Grease  
TOC

**18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES**  additional next page Samples processed by: \_\_\_\_\_

The TB is not logged for SIM due to insufficient volume.  
The samples were logged for SIM per client. 2/9/22

**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: \_\_\_\_\_

## Chain of Custody Record



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

Client Contact		Regulatory program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other _____														TestAmerica Laboratories, Inc.																																					
Company Name: Arcadis		Client Project Manager: Kris Hinsky				Site Contact: Julia McClafferty				Lab Contact: Mike DelMonico				COC No: _____																																							
Address: 28550 Cabot Drive, Suite 500		Telephone: 248-994-2240				Telephone: 734-644-5131				Telephone: 330-497-9396				_____ of _____ COCs																																							
City/State/Zip: Novi, MI, 48377		Email: kristoffer.hinsky@arcadis.com				Analysis Turnaround Time				Analyses				For lab use only																																							
Phone: 248-994-2240		Sampler Name: <b>Seth Turner</b>				TAT if different from below <b>10 day</b> <input type="checkbox"/> 3 weeks <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day				Filtered Sample (Y/N) Composite=C / Grab=G 1,1-DCE 8260B cis-1,2-DCE 8260B Trans-1,2-DCE 8260B PCE 8260B TCE 8260B Vinyl Chloride 8260B 1,4-Dioxane 8260B SIM				Walk-in client																																							
Project Name: Ford LTP On-Site														Method of Shipment/Carrier:				Job/SDG No: _____																																			
Project Number: 30080642.401.03		Shipping/Tracking No:				Sample Identification				Sample Date				Sample Time				Matrix				Containers & Preservatives				Sample Specific Notes / Special Instructions:																											
PO # 30080642.401.03		Air																												Aqueous				Sediment				Solid				Other:				H2SO4				HNO3			
TRIP BLANK_72		---				---				X																				1 Trip Blank																							
MW-18_020722		2/7/22				1440				X								NG												3 VOAs for 8260B 3 VOAs for 8260B SIM																							
MW-21_020722		2/7/22				1215				X								NG																																			
MW-49_020722		2/7/22				1040				X								NG																																			
DUF-04		2/7/22				---				X								NG																																			
Possible Hazard Identification		<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown														Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																	
Special Instructions/QC Requirements & Comments:																																																					
Submit all results through Cadena at <a href="mailto:jtornalia@cadenaco.com">jtornalia@cadenaco.com</a> . Cadena #E203728 Level IV Reporting requested.																																																					
Relinquished by: <b>Seth Turner</b>						Company: Arcadis						Date/Time: 2/7/22/1530						Received by: <b>Novi Cold Storage</b>						Company: Arcadis						Date/Time: 2/7/22/1530																							
Relinquished by: <b>Novi Cold Storage</b>						Company: Arcadis						Date/Time: 2/8/22 1000						Received by: <b>Dufel</b>						Company: Kuratins						Date/Time: 2-8-22 1000																							
Relinquished by:						Company:						Date/Time:						Received in Laboratory by:						Company:						Date/Time:																							

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# Chain of Custody Record

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

<b>Client Contact</b>		<b>Regulatory program:</b> <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other										TestAmerica Laboratories, Inc.												
Company Name: Arcadis		Client Project Manager: Kris Hinskey			Site Contact: Julia McClafferty			Lab Contact: Mike DelMonico				COC No:												
Address: 28550 Cabot Drive, Suite 500		Telephone: 248-994-2240			Telephone: 734-644-5131			Telephone: 330-497-9396				1 of 1 COCs												
City/State/Zip: Novi, MI, 48377		Email: kristoffer.hinskey@arcadis.com			Analysis Turnaround Time			Analyses				For lab use only												
Phone: 248-994-2240		Sampler Name: <i>Christen Gumbel</i>			TAT if different from below <b>10 day</b>							Walk-in client												
Project Name: Ford LTP Off-Site												Method of Shipment/Carrier:		Lab sampling										
Project Number: 30080642.402.04		Shipping/Tracking No:										Job/SDG No:												
PO # 30080642.402.04																								
Sample Identification		Sample Date	Sample Time	Matrix				Containers & Preservatives				Sample Specific Notes / Special Instructions:												
			Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH			ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite-C / Grab-G	1,1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride 8260B
TRIP BLANK_01	02/07/22			X							1				N	G	X	X	X	X	X	X		1 Trip Blank
MW-74D_020722	2/7/22	1025		X							6				N	G	X	X	X	X	X	X		3 VOAs for 8260B 3 VOAs for 8260B SIM
MW-74SR_020722	2/7/22	1146		X							6				N	G	X	X	X	X	X	X		
MW-74_020722	2/7/22	1317		X							6				N	G	X	X	X	X	X	X		
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																						
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																						
Special Instructions/QC Requirements & Comments: Sample Address: <i>Belden Ct. New</i> Submit all results through Cadena at <a href="mailto:jtomalia@cadenaco.com">jtomalia@cadenaco.com</a> . Cadena #E203631 Level IV Reporting requested.																								
Relinquished by: <i>Christen Gumbel</i>		Company: <i>Arcadis</i>		Date/Time: <i>2/7/22 1420</i>		Received by: <i>Novi cold storage</i>		Company: <i>Arcadis</i>		Date/Time: <i>2/7/22 1420</i>														
Relinquished by: <i>Novi cold storage</i>		Company: <i>Arcadis</i>		Date/Time: <i>2/8/22 1000</i>		Received by: <i>[Signature]</i>		Company: <i>Eurofin's</i>		Date/Time: <i>2-8-22 1000</i>														
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:		Date/Time:														

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