

ANALYTICAL REPORT

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Tel: (330)497-9396

Laboratory Job ID: 240-149241-1
Client Project/Site: Ford LTP - On Site

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

Attn: Kristoffer Hinskey



Authorized for release by:
5/26/2021 2:19:23 PM

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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: 240-149241-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

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

Job ID: 240-149241-1

Job ID: 240-149241-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-149241-1

Comments

No additional comments.

Receipt

The samples were received on 5/12/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.6° C and 1.7° C.

GC/MS VOA

Method 8260B: The continuing calibration verification (CCV) associated with batch 486521 recovered above the upper control limit for Vinyl Chloride. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: TRIP BLANK_58 (240-149241-1), MW-25_051021 (240-149241-4) and MW-224S_051021 (240-149241-5).

Method 8260B: No MS/MSD in batch 486699 due to an incorrect dilution: MW-200S_051021 (240-149241-3).

Method 8260B: The continuing calibration verification (CCV) associated with batch 486912 recovered above the upper control limit for Vinyl chloride and 1,1-Dichloroethene. The samples associated with this CCV were non-detect for the affected analytes; therefore, the data have been reported. The associated sample is impacted: MW-200_051021 (240-149241-2).

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: 240-149241-1

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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- 10
- 11
- 12
- 13
- 14

Sample Summary

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

Job ID: 240-149241-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-149241-1	TRIP BLANK_58	Water	05/10/21 00:00	05/12/21 08:00	
240-149241-2	MW-200_051021	Water	05/10/21 10:25	05/12/21 08:00	
240-149241-3	MW-200S_051021	Water	05/10/21 11:15	05/12/21 08:00	
240-149241-4	MW-25_051021	Water	05/10/21 12:22	05/12/21 08:00	
240-149241-5	MW-224S_051021	Water	05/10/21 14:03	05/12/21 08:00	

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- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

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

Job ID: 240-149241-1

Client Sample ID: TRIP BLANK_58

Lab Sample ID: 240-149241-1

No Detections.

Client Sample ID: MW-200_051021

Lab Sample ID: 240-149241-2

No Detections.

Client Sample ID: MW-200S_051021

Lab Sample ID: 240-149241-3

No Detections.

Client Sample ID: MW-25_051021

Lab Sample ID: 240-149241-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3.0		2.0	0.86	ug/L	1		8260B SIM	Total/NA

Client Sample ID: MW-224S_051021

Lab Sample ID: 240-149241-5

No Detections.

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: 240-149241-1

Client Sample ID: TRIP BLANK_58

Lab Sample ID: 240-149241-1

Date Collected: 05/10/21 00:00

Matrix: Water

Date Received: 05/12/21 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			05/19/21 18:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/19/21 18:11	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/19/21 18:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/19/21 18:11	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/19/21 18:11	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/19/21 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		75 - 130		05/19/21 18:11	1
4-Bromofluorobenzene (Surr)	65		47 - 134		05/19/21 18:11	1
Toluene-d8 (Surr)	84		69 - 122		05/19/21 18:11	1
Dibromofluoromethane (Surr)	107		78 - 129		05/19/21 18:11	1

Client Sample Results

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

Job ID: 240-149241-1

Client Sample ID: MW-200_051021

Lab Sample ID: 240-149241-2

Date Collected: 05/10/21 10:25

Matrix: Water

Date Received: 05/12/21 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			05/14/21 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 133		05/14/21 19:25	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			05/21/21 12:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/21/21 12:01	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/21/21 12:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/21/21 12:01	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/21/21 12:01	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/21/21 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	127		75 - 130		05/21/21 12:01	1
4-Bromofluorobenzene (Surr)	79		47 - 134		05/21/21 12:01	1
Toluene-d8 (Surr)	93		69 - 122		05/21/21 12:01	1
Dibromofluoromethane (Surr)	98		78 - 129		05/21/21 12:01	1

Client Sample Results

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

Job ID: 240-149241-1

Client Sample ID: MW-200S_051021

Lab Sample ID: 240-149241-3

Date Collected: 05/10/21 11:15

Matrix: Water

Date Received: 05/12/21 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			05/14/21 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 133		05/14/21 19:49	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			05/20/21 15:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/20/21 15:22	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/20/21 15:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/20/21 15:22	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/20/21 15:22	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/20/21 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		75 - 130		05/20/21 15:22	1
4-Bromofluorobenzene (Surr)	83		47 - 134		05/20/21 15:22	1
Toluene-d8 (Surr)	92		69 - 122		05/20/21 15:22	1
Dibromofluoromethane (Surr)	96		78 - 129		05/20/21 15:22	1

Client Sample Results

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

Job ID: 240-149241-1

Client Sample ID: MW-25_051021

Lab Sample ID: 240-149241-4

Date Collected: 05/10/21 12:22

Matrix: Water

Date Received: 05/12/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.0		2.0	0.86	ug/L			05/14/21 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 133		05/14/21 20:14	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			05/19/21 19:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/19/21 19:16	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/19/21 19:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/19/21 19:16	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/19/21 19:16	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/19/21 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		75 - 130		05/19/21 19:16	1
4-Bromofluorobenzene (Surr)	63		47 - 134		05/19/21 19:16	1
Toluene-d8 (Surr)	84		69 - 122		05/19/21 19:16	1
Dibromofluoromethane (Surr)	110		78 - 129		05/19/21 19:16	1

Client Sample Results

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

Job ID: 240-149241-1

Client Sample ID: MW-224S_051021

Lab Sample ID: 240-149241-5

Date Collected: 05/10/21 14:03

Matrix: Water

Date Received: 05/12/21 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			05/14/21 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 133		05/14/21 20:39	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			05/19/21 19:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/19/21 19:38	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/19/21 19:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/19/21 19:38	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/19/21 19:38	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/19/21 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	127		75 - 130		05/19/21 19:38	1
4-Bromofluorobenzene (Surr)	66		47 - 134		05/19/21 19:38	1
Toluene-d8 (Surr)	85		69 - 122		05/19/21 19:38	1
Dibromofluoromethane (Surr)	110		78 - 129		05/19/21 19:38	1

Surrogate Summary

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

Job ID: 240-149241-1

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)
240-149235-A-2 MS	Matrix Spike	99	97	97	92
240-149235-C-2 MSD	Matrix Spike Duplicate	98	97	100	89
240-149241-1	TRIP BLANK_58	122	65	84	107
240-149241-2	MW-200_051021	127	79	93	98
240-149241-3	MW-200S_051021	83	83	92	96
240-149241-4	MW-25_051021	123	63	84	110
240-149241-5	MW-224S_051021	127	66	85	110
240-149244-A-2 MS	Matrix Spike	109	97	100	89
240-149244-G-2 MSD	Matrix Spike Duplicate	111	94	99	92
LCS 240-486521/4	Lab Control Sample	96	98	96	90
LCS 240-486699/4	Lab Control Sample	79	84	90	95
LCS 240-486912/4	Lab Control Sample	111	96	101	93
MB 240-486521/7	Method Blank	111	70	86	99
MB 240-486699/6	Method Blank	77	81	89	91
MB 240-486912/7	Method Blank	122	81	94	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 (70-133)
240-149111-H-2 MS	Matrix Spike	99
240-149111-N-2 MSD	Matrix Spike Duplicate	95
240-149241-2	MW-200_051021	96
240-149241-3	MW-200S_051021	98
240-149241-4	MW-25_051021	97
240-149241-5	MW-224S_051021	104
LCS 240-485808/4	Lab Control Sample	95
MB 240-485808/5	Method Blank	98

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-149241-1

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

Lab Sample ID: MB 240-486521/7
Matrix: Water
Analysis Batch: 486521

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	0.19	ug/L			05/19/21 12:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/19/21 12:25	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/19/21 12:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/19/21 12:25	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/19/21 12:25	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/19/21 12:25	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	111		75 - 130		05/19/21 12:25	1
4-Bromofluorobenzene (Surr)	70		47 - 134		05/19/21 12:25	1
Toluene-d8 (Surr)	86		69 - 122		05/19/21 12:25	1
Dibromofluoromethane (Surr)	99		78 - 129		05/19/21 12:25	1

Lab Sample ID: LCS 240-486521/4
Matrix: Water
Analysis Batch: 486521

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	10.7		ug/L		107	73 - 129
cis-1,2-Dichloroethene	10.0	9.35		ug/L		93	75 - 124
Tetrachloroethene	10.0	9.52		ug/L		95	70 - 125
trans-1,2-Dichloroethene	10.0	10.1		ug/L		101	74 - 130
Trichloroethene	10.0	8.56		ug/L		86	71 - 121
Vinyl chloride	10.0	11.9		ug/L		119	61 - 134

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		75 - 130
4-Bromofluorobenzene (Surr)	98		47 - 134
Toluene-d8 (Surr)	96		69 - 122
Dibromofluoromethane (Surr)	90		78 - 129

Lab Sample ID: 240-149235-A-2 MS
Matrix: Water
Analysis Batch: 486521

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	1.0	U F2 F1	10.0	14.4	F1	ug/L		144	64 - 132
cis-1,2-Dichloroethene	1.0	U	10.0	8.81		ug/L		88	68 - 121
Tetrachloroethene	1.0	U	10.0	9.26		ug/L		93	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	9.20		ug/L		92	69 - 126
Trichloroethene	1.0	U	10.0	8.08		ug/L		81	56 - 124
Vinyl chloride	1.0	U	10.0	12.8		ug/L		128	49 - 136

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		75 - 130
4-Bromofluorobenzene (Surr)	97		47 - 134
Toluene-d8 (Surr)	97		69 - 122

QC Sample Results

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

Job ID: 240-149241-1

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

Lab Sample ID: 240-149235-A-2 MS
Matrix: Water
Analysis Batch: 486521

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>	92		78 - 129

Lab Sample ID: 240-149235-C-2 MSD
Matrix: Water
Analysis Batch: 486521

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 F2 F1	10.0	7.87	F2	ug/L		79	64 - 132	58	35
cis-1,2-Dichloroethene	1.0	U	10.0	8.69		ug/L		87	68 - 121	1	35
Tetrachloroethene	1.0	U	10.0	9.15		ug/L		92	52 - 129	1	35
trans-1,2-Dichloroethene	1.0	U	10.0	9.21		ug/L		92	69 - 126	0	35
Trichloroethene	1.0	U	10.0	8.16		ug/L		82	56 - 124	1	35
Vinyl chloride	1.0	U	10.0	11.1		ug/L		111	49 - 136	14	35

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	98		75 - 130
<i>4-Bromofluorobenzene (Surr)</i>	97		47 - 134
<i>Toluene-d8 (Surr)</i>	100		69 - 122
<i>Dibromofluoromethane (Surr)</i>	89		78 - 129

Lab Sample ID: MB 240-486699/6
Matrix: Water
Analysis Batch: 486699

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			05/20/21 10:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/20/21 10:55	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/20/21 10:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/20/21 10:55	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/20/21 10:55	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/20/21 10:55	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>	77		75 - 130		05/20/21 10:55	1
<i>4-Bromofluorobenzene (Surr)</i>	81		47 - 134		05/20/21 10:55	1
<i>Toluene-d8 (Surr)</i>	89		69 - 122		05/20/21 10:55	1
<i>Dibromofluoromethane (Surr)</i>	91		78 - 129		05/20/21 10:55	1

Lab Sample ID: LCS 240-486699/4
Matrix: Water
Analysis Batch: 486699

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	11.6		ug/L		116	73 - 129
cis-1,2-Dichloroethene	10.0	10.8		ug/L		108	75 - 124
Tetrachloroethene	10.0	10.2		ug/L		102	70 - 125
trans-1,2-Dichloroethene	10.0	10.8		ug/L		108	74 - 130
Trichloroethene	10.0	9.77		ug/L		98	71 - 121

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-149241-1

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

Lab Sample ID: LCS 240-486699/4
Matrix: Water
Analysis Batch: 486699

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	7.93		ug/L		79	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	79		75 - 130
4-Bromofluorobenzene (Surr)	84		47 - 134
Toluene-d8 (Surr)	90		69 - 122
Dibromofluoromethane (Surr)	95		78 - 129

Lab Sample ID: MB 240-486912/7
Matrix: Water
Analysis Batch: 486912

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			05/21/21 11:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/21/21 11:39	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/21/21 11:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/21/21 11:39	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/21/21 11:39	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/21/21 11:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		75 - 130		05/21/21 11:39	1
4-Bromofluorobenzene (Surr)	81		47 - 134		05/21/21 11:39	1
Toluene-d8 (Surr)	94		69 - 122		05/21/21 11:39	1
Dibromofluoromethane (Surr)	96		78 - 129		05/21/21 11:39	1

Lab Sample ID: LCS 240-486912/4
Matrix: Water
Analysis Batch: 486912

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	9.06		ug/L		91	73 - 129
cis-1,2-Dichloroethene	10.0	10.2		ug/L		102	75 - 124
Tetrachloroethene	10.0	10.2		ug/L		102	70 - 125
trans-1,2-Dichloroethene	10.0	10.0		ug/L		100	74 - 130
Trichloroethene	10.0	9.46		ug/L		95	71 - 121
Vinyl chloride	10.0	10.8		ug/L		108	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		75 - 130
4-Bromofluorobenzene (Surr)	96		47 - 134
Toluene-d8 (Surr)	101		69 - 122
Dibromofluoromethane (Surr)	93		78 - 129

QC Sample Results

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

Job ID: 240-149241-1

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

Lab Sample ID: 240-149244-A-2 MS

Matrix: Water

Analysis Batch: 486912

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	12.0		ug/L		120	64 - 132
cis-1,2-Dichloroethene	1.0	U	10.0	8.95		ug/L		89	68 - 121
Tetrachloroethene	1.0	U	10.0	9.03		ug/L		90	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	9.00		ug/L		90	69 - 126
Trichloroethene	1.0	U	10.0	8.18		ug/L		82	56 - 124
Vinyl chloride	1.0	U F1	10.0	11.2		ug/L		112	49 - 136

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	109		75 - 130
4-Bromofluorobenzene (Surr)	97		47 - 134
Toluene-d8 (Surr)	100		69 - 122
Dibromofluoromethane (Surr)	89		78 - 129

Lab Sample ID: 240-149244-G-2 MSD

Matrix: Water

Analysis Batch: 486912

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	8.53		ug/L		85	64 - 132	34	35
cis-1,2-Dichloroethene	1.0	U	10.0	9.53		ug/L		95	68 - 121	6	35
Tetrachloroethene	1.0	U	10.0	9.50		ug/L		95	52 - 129	5	35
trans-1,2-Dichloroethene	1.0	U	10.0	9.41		ug/L		94	69 - 126	4	35
Trichloroethene	1.0	U	10.0	8.60		ug/L		86	56 - 124	5	35
Vinyl chloride	1.0	U F1	10.0	14.8	F1	ug/L		148	49 - 136	28	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	111		75 - 130
4-Bromofluorobenzene (Surr)	94		47 - 134
Toluene-d8 (Surr)	99		69 - 122
Dibromofluoromethane (Surr)	92		78 - 129

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

Lab Sample ID: MB 240-485808/5

Matrix: Water

Analysis Batch: 485808

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/14/21 12:23	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 133		05/14/21 12:23	1

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-149241-1

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

Lab Sample ID: LCS 240-485808/4
Matrix: Water
Analysis Batch: 485808

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	10.4		ug/L		104	80 - 135
Surrogate							
	%Recovery	LCS Qualifier	LCS Limits				
1,2-Dichloroethane-d4 (Surr)	95		70 - 133				

Lab Sample ID: 240-149111-H-2 MS
Matrix: Water
Analysis Batch: 485808

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	2.6		10.0	13.1		ug/L		105	46 - 170
Surrogate									
	%Recovery	MS Qualifier	MS Limits						
1,2-Dichloroethane-d4 (Surr)	99		70 - 133						

Lab Sample ID: 240-149111-N-2 MSD
Matrix: Water
Analysis Batch: 485808

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
1,4-Dioxane	2.6		10.0	13.1		ug/L		105	46 - 170	0	26
Surrogate											
	%Recovery	MSD Qualifier	MSD Limits								
1,2-Dichloroethane-d4 (Surr)	95		70 - 133								

QC Association Summary

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

Job ID: 240-149241-1

GC/MS VOA

Analysis Batch: 485808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149241-2	MW-200_051021	Total/NA	Water	8260B SIM	
240-149241-3	MW-200S_051021	Total/NA	Water	8260B SIM	
240-149241-4	MW-25_051021	Total/NA	Water	8260B SIM	
240-149241-5	MW-224S_051021	Total/NA	Water	8260B SIM	
MB 240-485808/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-485808/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-149111-H-2 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-149111-N-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 486521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149241-1	TRIP BLANK_58	Total/NA	Water	8260B	
240-149241-4	MW-25_051021	Total/NA	Water	8260B	
240-149241-5	MW-224S_051021	Total/NA	Water	8260B	
MB 240-486521/7	Method Blank	Total/NA	Water	8260B	
LCS 240-486521/4	Lab Control Sample	Total/NA	Water	8260B	
240-149235-A-2 MS	Matrix Spike	Total/NA	Water	8260B	
240-149235-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 486699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149241-3	MW-200S_051021	Total/NA	Water	8260B	
MB 240-486699/6	Method Blank	Total/NA	Water	8260B	
LCS 240-486699/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 486912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149241-2	MW-200_051021	Total/NA	Water	8260B	
MB 240-486912/7	Method Blank	Total/NA	Water	8260B	
LCS 240-486912/4	Lab Control Sample	Total/NA	Water	8260B	
240-149244-A-2 MS	Matrix Spike	Total/NA	Water	8260B	
240-149244-G-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Lab Chronicle

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

Job ID: 240-149241-1

Client Sample ID: TRIP BLANK_58

Lab Sample ID: 240-149241-1

Date Collected: 05/10/21 00:00

Matrix: Water

Date Received: 05/12/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	486521	05/19/21 18:11	LEE	TAL CAN

Client Sample ID: MW-200_051021

Lab Sample ID: 240-149241-2

Date Collected: 05/10/21 10:25

Matrix: Water

Date Received: 05/12/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	486912	05/21/21 12:01	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	485808	05/14/21 19:25	CS	TAL CAN

Client Sample ID: MW-200S_051021

Lab Sample ID: 240-149241-3

Date Collected: 05/10/21 11:15

Matrix: Water

Date Received: 05/12/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	486699	05/20/21 15:22	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	485808	05/14/21 19:49	CS	TAL CAN

Client Sample ID: MW-25_051021

Lab Sample ID: 240-149241-4

Date Collected: 05/10/21 12:22

Matrix: Water

Date Received: 05/12/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	486521	05/19/21 19:16	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	485808	05/14/21 20:14	CS	TAL CAN

Client Sample ID: MW-224S_051021

Lab Sample ID: 240-149241-5

Date Collected: 05/10/21 14:03

Matrix: Water

Date Received: 05/12/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	486521	05/19/21 19:38	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	485808	05/14/21 20:39	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: 240-149241-1

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.



Chain of Custody Record

MICHIGAN
190

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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 Hinsky
 Telephone: 248-994-2240
 Email: kristoffer.hinsky@arcadis.com

Site Contact: Julia McClafferty
 Telephone: 330-497-9396

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

Company Name: Arcadis
 Address: 24550 Cabot Drive, Suite 500
 City/State/Zip: Novi, MI, 48377

Project Name: Ford LTP On-Site
 Project Number: 30080642.401.03
 PO #: 30080642.401.03

Sampler Name: **CHRISTINA WEAVER**
 Method of Shipment/Carrier:
 Shipping/Tracking No:

Analysis Turnaround Time
 TAT if different from below: 3 weeks 2 weeks 1 week 2 days 1 day
40 day

Containers & Preservatives
 HCl HNO3 H2SO4 NaOH LiOH Other:

Matrix
 Air Aqueous Sediment Solid Other:

Filtered Sample (Y/N) Composite=C / Grab=G

Analyses
 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

Sample Specific Notes / Special Instructions:
 1 Trip Blank
 3 VOAs for 8260B
 3 VOAs for 8260B SIM
 " " " " " "

Possible Hazard Identification
 Non-Hazard Irritable Skin Irritant Unknown

Special Instructions/QC Requirements & Comments:
 Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728
 Level IV Reporting requested.

Relinquished by: *Christina Weaver*
 Relinquished by: *Christina Weaver*
 Relinquished by: *Christina Weaver*

Received by: *NOVI COOL STORAGE*
 Received by: *ETA*
 Received by: *ETA*

Date/Time: 5/10/21 / 1550
 Date/Time: 5/11/21 / 953
 Date/Time: 5/11/21 / 1456

Company: ARCADIS
 Company: ARCADIS
 Company: ETA

Date/Time: 5/10/21 / 1550
 Date/Time: 5/11/21 / 953
 Date/Time: 5/11/21 / 1456

Company: ARCADIS
 Company: ARCADIS
 Company: ETA

Date/Time: 5/10/21 / 1550
 Date/Time: 5/11/21 / 953
 Date/Time: 5/11/21 / 1456

Company: ARCADIS
 Company: ARCADIS
 Company: ETA



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Canton Facility

Client Arcadis Site Name _____ Cooler unpacked by: Matt Snyder

Cooler Received on 5-12-21 Opened on 5-12-21

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

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

TestAmerica Cooler # YA 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-11 (CF +0.1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN #IR-12 (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 _____ Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
 If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# 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 # NA 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: _____

Eurofins TestAmerica Canton Sample Receipt Multiple Cooler Form

Cooler Description (Circle)				IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
TA	Client	Box	Other	IR-12 IR-12	1.5	1.6	Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-12 IR-12	1.6	1.7	Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
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TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None
TA	Client	Box	Other	IR-11 IR-12			Wet Ice Blue Ice Dry Ice Water None

See Temperature Excursion Form

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