

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Kristoffer Hinskey
ARCADIS U.S., Inc.
28550 Cabot Drive
Suite 500
Novi Michigan 48377

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JOB DESCRIPTION

Ford LTP - On Site

JOB NUMBER

240-175783-1



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Definitions/Glossary

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

Job ID: 240-175783-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
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: 240-175783-1

Job ID: 240-175783-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-175783-1

Comments

No additional comments.

Receipt

The samples were received on 11/3/2022 9:45 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 0.8° C and 1.3° C.

GC/MS VOA

Method 8260D SIM: Surrogate recovery for the following samples was outside the upper control limit: MW-01_110222 (240-175783-2). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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: 240-175783-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CAN
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET CAN
5030C	Purge and Trap	SW846	EET CAN

Protocol References:

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

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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- 11
- 12
- 13
- 14
- 15

Sample Summary

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

Job ID: 240-175783-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-175783-1	TRIP BLANK_71	Water	11/02/22 00:00	11/03/22 09:45
240-175783-2	MW-01_110222	Water	11/02/22 08:25	11/03/22 09:45
240-175783-3	MW-24_110222	Water	11/02/22 09:25	11/03/22 09:45
240-175783-4	MW-200S_110222	Water	11/02/22 10:35	11/03/22 09:45
240-175783-5	MW-200_110222	Water	11/02/22 11:40	11/03/22 09:45

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Detection Summary

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

Job ID: 240-175783-1

Client Sample ID: TRIP BLANK_71

Lab Sample ID: 240-175783-1

No Detections.

Client Sample ID: MW-01_110222

Lab Sample ID: 240-175783-2

No Detections.

Client Sample ID: MW-24_110222

Lab Sample ID: 240-175783-3

No Detections.

Client Sample ID: MW-200S_110222

Lab Sample ID: 240-175783-4

No Detections.

Client Sample ID: MW-200_110222

Lab Sample ID: 240-175783-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Canton



Client Sample Results

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

Job ID: 240-175783-1

Client Sample ID: TRIP BLANK_71

Lab Sample ID: 240-175783-1

Date Collected: 11/02/22 00:00

Matrix: Water

Date Received: 11/03/22 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/14/22 12:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/14/22 12:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/14/22 12:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/14/22 12:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/14/22 12:53	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/14/22 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137		11/14/22 12:53	1
4-Bromofluorobenzene (Surr)	94		56 - 136		11/14/22 12:53	1
Toluene-d8 (Surr)	106		78 - 122		11/14/22 12:53	1
Dibromofluoromethane (Surr)	96		73 - 120		11/14/22 12:53	1

Client Sample Results

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

Job ID: 240-175783-1

Client Sample ID: MW-01_110222

Lab Sample ID: 240-175783-2

Date Collected: 11/02/22 08:25

Matrix: Water

Date Received: 11/03/22 09:45

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/13/22 07:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121	S1+	66 - 120		11/13/22 07:07	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/14/22 13:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/14/22 13:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/14/22 13:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/14/22 13:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/14/22 13:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/14/22 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137		11/14/22 13:17	1
4-Bromofluorobenzene (Surr)	94		56 - 136		11/14/22 13:17	1
Toluene-d8 (Surr)	106		78 - 122		11/14/22 13:17	1
Dibromofluoromethane (Surr)	100		73 - 120		11/14/22 13:17	1

Client Sample Results

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

Job ID: 240-175783-1

Client Sample ID: MW-24_110222

Lab Sample ID: 240-175783-3

Date Collected: 11/02/22 09:25

Matrix: Water

Date Received: 11/03/22 09:45

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/11/22 23:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		66 - 120					11/11/22 23:15	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/14/22 13:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/14/22 13:40	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/14/22 13:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/14/22 13:40	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/14/22 13:40	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/14/22 13:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137					11/14/22 13:40	1
4-Bromofluorobenzene (Surr)	94		56 - 136					11/14/22 13:40	1
Toluene-d8 (Surr)	104		78 - 122					11/14/22 13:40	1
Dibromofluoromethane (Surr)	101		73 - 120					11/14/22 13:40	1

Client Sample Results

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

Job ID: 240-175783-1

Client Sample ID: MW-200S_110222

Lab Sample ID: 240-175783-4

Date Collected: 11/02/22 10:35

Matrix: Water

Date Received: 11/03/22 09:45

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/12/22 00:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		66 - 120					11/12/22 00:28	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/14/22 15:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/14/22 15:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/14/22 15:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/14/22 15:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/14/22 15:12	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/14/22 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137					11/14/22 15:12	1
4-Bromofluorobenzene (Surr)	91		56 - 136					11/14/22 15:12	1
Toluene-d8 (Surr)	104		78 - 122					11/14/22 15:12	1
Dibromofluoromethane (Surr)	98		73 - 120					11/14/22 15:12	1

Client Sample Results

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

Job ID: 240-175783-1

Client Sample ID: MW-200_110222

Lab Sample ID: 240-175783-5

Date Collected: 11/02/22 11:40

Matrix: Water

Date Received: 11/03/22 09:45

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/12/22 00:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		66 - 120		11/12/22 00:53	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/14/22 15:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/14/22 15:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/14/22 15:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/14/22 15:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/14/22 15:36	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/14/22 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137		11/14/22 15:36	1
4-Bromofluorobenzene (Surr)	96		56 - 136		11/14/22 15:36	1
Toluene-d8 (Surr)	103		78 - 122		11/14/22 15:36	1
Dibromofluoromethane (Surr)	99		73 - 120		11/14/22 15:36	1

Surrogate Summary

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

Job ID: 240-175783-1

Method: 8260D - Volatile Organic Compounds by 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)
240-175783-1	TRIP BLANK_71	105	94	106	96
240-175783-2	MW-01_110222	107	94	106	100
240-175783-3	MW-24_110222	106	94	104	101
240-175783-3 MS	MW-24-MS_110222	99	102	107	96
240-175783-3 MSD	MW-24-MSD_110222	102	102	110	99
240-175783-4	MW-200S_110222	106	91	104	98
240-175783-5	MW-200_110222	106	96	103	99
LCS 240-551772/5	Lab Control Sample	98	101	106	96
MB 240-551772/8	Method Blank	104	92	105	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260D 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)
240-175783-2	MW-01_110222	121 S1+
240-175783-3	MW-24_110222	114
240-175783-3 MS	MW-24-MS_110222	106
240-175783-3 MSD	MW-24-MSD_110222	106
240-175783-4	MW-200S_110222	115
240-175783-5	MW-200_110222	110
240-175891-G-8 MS	Matrix Spike	106
240-175891-O-8 MSD	Matrix Spike Duplicate	112
LCS 240-551642/3	Lab Control Sample	119
LCS 240-551689/3	Lab Control Sample	119
MB 240-551642/4	Method Blank	111
MB 240-551689/4	Method Blank	118

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-175783-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-551772/8
Matrix: Water
Analysis Batch: 551772

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/14/22 10:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/14/22 10:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/14/22 10:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/14/22 10:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/14/22 10:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/14/22 10:58	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	104		62 - 137		11/14/22 10:58	1
4-Bromofluorobenzene (Surr)	92		56 - 136		11/14/22 10:58	1
Toluene-d8 (Surr)	105		78 - 122		11/14/22 10:58	1
Dibromofluoromethane (Surr)	98		73 - 120		11/14/22 10:58	1

Lab Sample ID: LCS 240-551772/5
Matrix: Water
Analysis Batch: 551772

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1-Dichloroethene	20.0	17.1		ug/L		86	63 - 134
cis-1,2-Dichloroethene	20.0	17.1		ug/L		85	77 - 123
Tetrachloroethene	20.0	18.8		ug/L		94	76 - 123
trans-1,2-Dichloroethene	20.0	17.1		ug/L		86	75 - 124
Trichloroethene	20.0	17.1		ug/L		86	70 - 122
Vinyl chloride	20.0	16.4		ug/L		82	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	106		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Lab Sample ID: 240-175783-3 MS
Matrix: Water
Analysis Batch: 551772

Client Sample ID: MW-24-MS_110222
Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	1.0	U	20.0	17.9		ug/L		90	56 - 135
cis-1,2-Dichloroethene	1.0	U	20.0	17.3		ug/L		86	66 - 128
Tetrachloroethene	1.0	U	20.0	19.5		ug/L		97	62 - 131
trans-1,2-Dichloroethene	1.0	U	20.0	17.7		ug/L		89	56 - 136
Trichloroethene	1.0	U	20.0	17.5		ug/L		88	61 - 124
Vinyl chloride	1.0	U	20.0	17.4		ug/L		87	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	107		78 - 122

QC Sample Results

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

Job ID: 240-175783-1

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

Lab Sample ID: 240-175783-3 MS
Matrix: Water
Analysis Batch: 551772

Client Sample ID: MW-24-MS_110222
Prep Type: Total/NA

Surrogate	%Recovery	MS MS Qualifier	Limits
Dibromofluoromethane (Surr)	96		73 - 120

Lab Sample ID: 240-175783-3 MSD
Matrix: Water
Analysis Batch: 551772

Client Sample ID: MW-24-MSD_110222
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	20.0	18.4		ug/L		92	56 - 135	3	26
cis-1,2-Dichloroethene	1.0	U	20.0	17.5		ug/L		87	66 - 128	1	14
Tetrachloroethene	1.0	U	20.0	19.8		ug/L		99	62 - 131	2	20
trans-1,2-Dichloroethene	1.0	U	20.0	18.1		ug/L		90	56 - 136	2	15
Trichloroethene	1.0	U	20.0	17.6		ug/L		88	61 - 124	0	15
Vinyl chloride	1.0	U	20.0	17.8		ug/L		89	43 - 157	2	24

Surrogate	%Recovery	MSD MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	110		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

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

Lab Sample ID: MB 240-551642/4
Matrix: Water
Analysis Batch: 551642

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/11/22 17:29	1

Surrogate	%Recovery	MB MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		66 - 120		11/11/22 17:29	1

Lab Sample ID: LCS 240-551642/3
Matrix: Water
Analysis Batch: 551642

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

Analyte	Spike Added	LCS LCS Result Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	10.0	9.82	ug/L		98	80 - 122

Surrogate	%Recovery	LCS LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	119		66 - 120

Lab Sample ID: 240-175783-3 MS
Matrix: Water
Analysis Batch: 551642

Client Sample ID: MW-24-MS_110222
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS Result Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.0	U	10.0	9.98	ug/L		100	51 - 153

Eurofins Canton

QC Sample Results

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

Job ID: 240-175783-1

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

<i>Surrogate</i>	<i>MS</i> <i>%Recovery</i>	<i>MS</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	106		66 - 120

Lab Sample ID: 240-175783-3 MSD
Matrix: Water
Analysis Batch: 551642

Client Sample ID: MW-24-MSD_110222
Prep Type: Total/NA

<i>Analyte</i>	<i>Sample</i> <i>Result</i>	<i>Sample</i> <i>Qualifier</i>	<i>Spike</i> <i>Added</i>	<i>MSD</i> <i>Result</i>	<i>MSD</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i> <i>Limits</i>	<i>RPD</i>	<i>RPD</i> <i>Limit</i>
1,4-Dioxane	2.0	U	10.0	9.47		ug/L		95	51 - 153	5	16

<i>Surrogate</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	106		66 - 120

Lab Sample ID: MB 240-551689/4
Matrix: Water
Analysis Batch: 551689

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

<i>Analyte</i>	<i>MB</i> <i>Result</i>	<i>MB</i> <i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/13/22 05:54	1

<i>Surrogate</i>	<i>MB</i> <i>%Recovery</i>	<i>MB</i> <i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	118		66 - 120		11/13/22 05:54	1

Lab Sample ID: LCS 240-551689/3
Matrix: Water
Analysis Batch: 551689

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

<i>Analyte</i>	<i>Spike</i> <i>Added</i>	<i>LCS</i> <i>Result</i>	<i>LCS</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i> <i>Limits</i>
1,4-Dioxane	10.0	9.78		ug/L		98	80 - 122

<i>Surrogate</i>	<i>LCS</i> <i>%Recovery</i>	<i>LCS</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	119		66 - 120

Lab Sample ID: 240-175891-G-8 MS
Matrix: Water
Analysis Batch: 551689

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

<i>Analyte</i>	<i>Sample</i> <i>Result</i>	<i>Sample</i> <i>Qualifier</i>	<i>Spike</i> <i>Added</i>	<i>MS</i> <i>Result</i>	<i>MS</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i> <i>Limits</i>
1,4-Dioxane	2.1		10.0	11.7		ug/L		96	51 - 153

<i>Surrogate</i>	<i>MS</i> <i>%Recovery</i>	<i>MS</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	106		66 - 120

Lab Sample ID: 240-175891-O-8 MSD
Matrix: Water
Analysis Batch: 551689

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

<i>Analyte</i>	<i>Sample</i> <i>Result</i>	<i>Sample</i> <i>Qualifier</i>	<i>Spike</i> <i>Added</i>	<i>MSD</i> <i>Result</i>	<i>MSD</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i> <i>Limits</i>	<i>RPD</i>	<i>RPD</i> <i>Limit</i>
1,4-Dioxane	2.1		10.0	11.5		ug/L		94	51 - 153	1	16

QC Sample Results

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

Job ID: 240-175783-1

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

Lab Sample ID: 240-175891-O-8 MSD

Matrix: Water

Analysis Batch: 551689

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

<i>Surrogate</i>	<i>MSD</i>	<i>MSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
1,2-Dichloroethane-d4 (Surr)	112		66 - 120

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QC Association Summary

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

Job ID: 240-175783-1

GC/MS VOA

Analysis Batch: 551642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175783-3	MW-24_110222	Total/NA	Water	8260D SIM	
240-175783-4	MW-200S_110222	Total/NA	Water	8260D SIM	
240-175783-5	MW-200_110222	Total/NA	Water	8260D SIM	
MB 240-551642/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-551642/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-175783-3 MS	MW-24-MS_110222	Total/NA	Water	8260D SIM	
240-175783-3 MSD	MW-24-MSD_110222	Total/NA	Water	8260D SIM	

Analysis Batch: 551689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175783-2	MW-01_110222	Total/NA	Water	8260D SIM	
MB 240-551689/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-551689/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-175891-G-8 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-175891-O-8 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 551772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-175783-1	TRIP BLANK_71	Total/NA	Water	8260D	
240-175783-2	MW-01_110222	Total/NA	Water	8260D	
240-175783-3	MW-24_110222	Total/NA	Water	8260D	
240-175783-4	MW-200S_110222	Total/NA	Water	8260D	
240-175783-5	MW-200_110222	Total/NA	Water	8260D	
MB 240-551772/8	Method Blank	Total/NA	Water	8260D	
LCS 240-551772/5	Lab Control Sample	Total/NA	Water	8260D	
240-175783-3 MS	MW-24-MS_110222	Total/NA	Water	8260D	
240-175783-3 MSD	MW-24-MSD_110222	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 240-175783-1

Client Sample ID: TRIP BLANK_71

Lab Sample ID: 240-175783-1

Date Collected: 11/02/22 00:00

Matrix: Water

Date Received: 11/03/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	551772	TJL1	EET CAN	11/14/22 12:53

Client Sample ID: MW-01_110222

Lab Sample ID: 240-175783-2

Date Collected: 11/02/22 08:25

Matrix: Water

Date Received: 11/03/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	551772	TJL1	EET CAN	11/14/22 13:17
Total/NA	Analysis	8260D SIM		1	551689	CS	EET CAN	11/13/22 07:07

Client Sample ID: MW-24_110222

Lab Sample ID: 240-175783-3

Date Collected: 11/02/22 09:25

Matrix: Water

Date Received: 11/03/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	551772	TJL1	EET CAN	11/14/22 13:40
Total/NA	Analysis	8260D SIM		1	551642	CS	EET CAN	11/11/22 23:15

Client Sample ID: MW-200S_110222

Lab Sample ID: 240-175783-4

Date Collected: 11/02/22 10:35

Matrix: Water

Date Received: 11/03/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	551772	TJL1	EET CAN	11/14/22 15:12
Total/NA	Analysis	8260D SIM		1	551642	CS	EET CAN	11/12/22 00:28

Client Sample ID: MW-200_110222

Lab Sample ID: 240-175783-5

Date Collected: 11/02/22 11:40

Matrix: Water

Date Received: 11/03/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	551772	TJL1	EET CAN	11/14/22 15:36
Total/NA	Analysis	8260D SIM		1	551642	CS	EET CAN	11/12/22 00:53

Laboratory References:

EET 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: 240-175783-1

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	02-27-23
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-27-23
Illinois	NELAP	200004	07-31-23
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23
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	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-27-23
Ohio VAP	State	CL0024	02-27-23
Oregon	NELAP	4062	02-27-23
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

MICHIGAN
190

0.1/0.8

0.6/1.3

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Client Contact Company Name: Arcadis Address: 28550 Cabot Drive, Suite 500 City/State/Zip: Novi, MI, 48377 Phone: 248-994-2240		Regulatory program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other	
Client Project Manager: Kris Hinskey Telephone: 248-994-2240 Email: kristoffer.hinskey@arcadis.com		Site Contact: Christina Weaver Telephone: 248-994-2293	
Sampler Name: Sommer Guy Method of Shipment/Carrier: Shipping/Tracking No:		Analysis Turnaround Time TAT if different from below <input checked="" 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	
Sample Identification TRIP BLANK_71 MW-01-110222 MW-24-110222 MW-24-MS-110222 MW-24-MSD-110222 MW-200S-110222 MW-200-110222		Matrix Air: 1 Aqueous: 6 Sediment: 6 Solid: 6 Other: 6 H2SO4: 6 HNO3: 6 HCl: 6 NaOH: 6 ZnAc: 6 NaOH: 6 Other: 6	
Sample Date --- 11/2/22 11/2/22 11/2/22 11/2/22 11/2/22 11/2/22		Sample Time --- 0825 0925 0925 0925 1035 1140	
Filtered Sample (Y/N) NG NG NG NG NG NG		Composite=C / Grab=G X X X X X X	
1,1-DCE 8260B Trans-1,2-DCE 8260B PCE 8260B TCE 8260B Vinyl Chloride 8260B 1,4-Dioxane 8260B SIM		Analyses X X X X X X	
Containers & Preservatives H2SO4 HNO3 HCl NaOH ZnAc NaOH Other:		Disposal By Lab <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab	
Sample Specific Notes / Special Instructions: 1 Trip Blank 3 VOAs for 8260B 3 VOAs for 8260B SIM Run MS MSD Run MS MSD		COC No.: of COC's	



240-175783 Chain of Custody

Relinquished by: Sommer Guy	Company: Arcadis	Date/Time: 11/2/22 1440	Received by: [Signature]	Company: [Signature]	Date/Time: 11/3/22 0945
Relinquished by: [Signature]	Company: Arcadis	Date/Time: 11/2/22 1530	Received by: [Signature]	Company: [Signature]	Date/Time: 11/3/22 0945
Relinquished by: [Signature]	Company: Arcadis	Date/Time: 11/2/22 1530	Received by: [Signature]	Company: [Signature]	Date/Time: 11/3/22 0945

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Eurofins - Canton Sample Receipt Form/Narrative Login #: 175783
Barberton Facility

Client Arcadis Site Name _____ Cooler unpacked by: OMG
Cooler Received on 11-3-22 Opened on 11-3-22
FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off Eurofins Courier Other _____

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

Eurofins Cooler # EC 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-13 (CF +0.7°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
IR GUN #IR-15 (CF 0.0°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Lea 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 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)?
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# HC286797
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? Yes ← 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

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: _____

19. SAMPLE CONDITION
Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) 2x40mL for MW 24MSMS 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 Canton

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



Generated
11/16/2022 3:08:33 PM

Authorized for release by
Michael DeMonico, Project Manager I
Michael.DeMonico@et.eurofinsus.com
(330)497-9396

DATA VERIFICATION REPORT



November 16, 2022

Kris Hinskey
Arcadis of Michigan
28550 Cabot Drive
Suite 500
Novi, MI US 48377

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - ON-SITE -Soil Gas, Ground water and Soil

Project number: 30146655.401.03- onsite groundwater

Event Specific Scope of Work References: Sample COC

Laboratory: Eurofins Environment Testing LLC - Barberton

Laboratory submittal: 175783-1

Sample date: 2022-11-02

Report received by CADENA: 2022-11-16

Initial Data Verification completed by CADENA: 2022-11-16

Number of Samples:5

Sample Matrices:Water

Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

SIM GCMS VOC sample -002 surrogate recovery outliers did not result in qualification of client sample data.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, MS/MSD Recovery, MS/MSD RPD, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at <http://clms.cadenaco.com/index.cfm>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
E	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Barberton

Laboratory Submittal: 175783-1

Analyte	Cas No.	Sample Name: TRIP BLANK_71				Sample Name: MW-01_110222				Sample Name: MW-24_110222				Sample Name: MW-2005_110222				Sample Name: MW-200_110222			
		Result	Limit	Units	Valid	Result	Limit	Units	Valid	Result	Limit	Units	Valid	Result	Limit	Units	Valid	Result	Limit	Units	Valid
GC/MS VOC																					
<u>OSW-8260D</u>																					
1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
<u>OSW-8260DSIM</u>																					
1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---