

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

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JOB DESCRIPTION

Ford LTP - On Site

JOB NUMBER

240-200747-1

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Job Notes

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Authorization



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Definitions/Glossary

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

Job ID: 240-200747-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

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

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Job Narrative 240-200747-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/8/2024 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 2.3°C and 3.3°C.

GC/MS VOA

Method 8260D: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: MW-36_030624 (240-200747-2).

Method 8260D_SIM: An MS/MSD was prepared and analyzed with batch 240-605892, but is not reported due to the MS sample having a bad purge.

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

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Method Summary

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

Job ID: 240-200747-1

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

Protocol References:

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

Laboratory References:

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



Sample Summary

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

Job ID: 240-200747-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-200747-1	TRIP BLANK_14	Water	03/06/24 00:00	03/08/24 08:00
240-200747-2	MW-36_030624	Water	03/06/24 09:35	03/08/24 08:00
240-200747-3	MW-38_030624	Water	03/06/24 11:10	03/08/24 08:00
240-200747-4	MW-219S_030624	Water	03/06/24 12:30	03/08/24 08:00

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Detection Summary

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

Job ID: 240-200747-1

Client Sample ID: TRIP BLANK_14

Lab Sample ID: 240-200747-1

No Detections.

Client Sample ID: MW-36_030624

Lab Sample ID: 240-200747-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.0	J	2.0	0.86	ug/L	1		8260D SIM	Total/NA

Client Sample ID: MW-38_030624

Lab Sample ID: 240-200747-3

No Detections.

Client Sample ID: MW-219S_030624

Lab Sample ID: 240-200747-4

No Detections.

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: 240-200747-1

Client Sample ID: TRIP BLANK_14

Lab Sample ID: 240-200747-1

Date Collected: 03/06/24 00:00

Matrix: Water

Date Received: 03/08/24 08:00

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			03/13/24 22:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/13/24 22:14	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/13/24 22:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/13/24 22:14	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/13/24 22:14	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/13/24 22:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137		03/13/24 22:14	1
4-Bromofluorobenzene (Surr)	90		56 - 136		03/13/24 22:14	1
Toluene-d8 (Surr)	98		78 - 122		03/13/24 22:14	1
Dibromofluoromethane (Surr)	96		73 - 120		03/13/24 22:14	1

Client Sample Results

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

Job ID: 240-200747-1

Client Sample ID: MW-36_030624

Lab Sample ID: 240-200747-2

Date Collected: 03/06/24 09:35

Matrix: Water

Date Received: 03/08/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.0	J	2.0	0.86	ug/L			03/15/24 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		68 - 127					03/15/24 15:56	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			03/14/24 03:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/14/24 03:38	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/14/24 03:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/14/24 03:38	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/14/24 03:38	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/14/24 03:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137					03/14/24 03:38	1
4-Bromofluorobenzene (Surr)	90		56 - 136					03/14/24 03:38	1
Toluene-d8 (Surr)	97		78 - 122					03/14/24 03:38	1
Dibromofluoromethane (Surr)	96		73 - 120					03/14/24 03:38	1

Client Sample Results

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

Job ID: 240-200747-1

Client Sample ID: MW-38_030624

Lab Sample ID: 240-200747-3

Date Collected: 03/06/24 11:10

Matrix: Water

Date Received: 03/08/24 08:00

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			03/13/24 17:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		68 - 127					03/13/24 17:05	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			03/14/24 04:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/14/24 04:03	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/14/24 04:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/14/24 04:03	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/14/24 04:03	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/14/24 04:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137					03/14/24 04:03	1
4-Bromofluorobenzene (Surr)	91		56 - 136					03/14/24 04:03	1
Toluene-d8 (Surr)	95		78 - 122					03/14/24 04:03	1
Dibromofluoromethane (Surr)	99		73 - 120					03/14/24 04:03	1

Client Sample Results

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

Job ID: 240-200747-1

Client Sample ID: MW-219S_030624

Lab Sample ID: 240-200747-4

Date Collected: 03/06/24 12:30

Matrix: Water

Date Received: 03/08/24 08:00

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			03/13/24 17:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		68 - 127					03/13/24 17:29	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			03/14/24 04:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/14/24 04:28	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/14/24 04:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/14/24 04:28	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/14/24 04:28	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/14/24 04:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137					03/14/24 04:28	1
4-Bromofluorobenzene (Surr)	91		56 - 136					03/14/24 04:28	1
Toluene-d8 (Surr)	96		78 - 122					03/14/24 04:28	1
Dibromofluoromethane (Surr)	98		73 - 120					03/14/24 04:28	1

Surrogate Summary

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

Job ID: 240-200747-1

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)
240-200747-1	TRIP BLANK_14	102	90	98	96
240-200747-2	MW-36_030624	104	90	97	96
240-200747-2 MS	MW-36-MS_030624	100	108	102	97
240-200747-2 MSD	MW-36-MSD_030624	99	106	100	96
240-200747-3	MW-38_030624	104	91	95	99
240-200747-4	MW-219S_030624	106	91	96	98
LCS 240-606002/5	Lab Control Sample	96	106	102	97
MB 240-606002/7	Method Blank	101	92	98	95

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	DCA
		(68-127)
240-200747-2	MW-36_030624	109
240-200747-2 MS	MW-36-MS_030624	110
240-200747-2 MSD	MW-36-MSD_030624	109
240-200747-3	MW-38_030624	105
240-200747-4	MW-219S_030624	112
LCS 240-605892/5	Lab Control Sample	109
LCS 240-606196/5	Lab Control Sample	109
MB 240-605892/7	Method Blank	107
MB 240-606196/7	Method Blank	105

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-200747-1

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

Lab Sample ID: MB 240-606002/7

Matrix: Water

Analysis Batch: 606002

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			03/13/24 20:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/13/24 20:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/13/24 20:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/13/24 20:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/13/24 20:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/13/24 20:09	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	101		62 - 137		03/13/24 20:09	1
4-Bromofluorobenzene (Surr)	92		56 - 136		03/13/24 20:09	1
Toluene-d8 (Surr)	98		78 - 122		03/13/24 20:09	1
Dibromofluoromethane (Surr)	95		73 - 120		03/13/24 20:09	1

Lab Sample ID: LCS 240-606002/5

Matrix: Water

Analysis Batch: 606002

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	21.4		ug/L		85	63 - 134
cis-1,2-Dichloroethene	25.0	24.6		ug/L		99	77 - 123
Tetrachloroethene	25.0	23.5		ug/L		94	76 - 123
trans-1,2-Dichloroethene	25.0	24.1		ug/L		96	75 - 124
Trichloroethene	25.0	23.8		ug/L		95	70 - 122
Vinyl chloride	12.5	13.8		ug/L		110	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	106		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: 240-200747-2 MS

Matrix: Water

Analysis Batch: 606002

Client Sample ID: MW-36-MS_030624

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	25.0	22.9		ug/L		92	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	24.4		ug/L		98	66 - 128
Tetrachloroethene	1.0	U	25.0	23.9		ug/L		95	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	24.1		ug/L		96	56 - 136
Trichloroethene	1.0	U	25.0	23.4		ug/L		94	61 - 124
Vinyl chloride	1.0	U	12.5	11.9		ug/L		95	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	108		56 - 136
Toluene-d8 (Surr)	102		78 - 122

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QC Sample Results

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

Job ID: 240-200747-1

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

Lab Sample ID: 240-200747-2 MS
Matrix: Water
Analysis Batch: 606002

Client Sample ID: MW-36-MS_030624
Prep Type: Total/NA

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: 240-200747-2 MSD
Matrix: Water
Analysis Batch: 606002

Client Sample ID: MW-36-MSD_030624
Prep Type: Total/NA

Analyte	Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
1,1-Dichloroethene	1.0	U	25.0	23.0		ug/L		92	56 - 135	0	26	
cis-1,2-Dichloroethene	1.0	U	25.0	24.6		ug/L		99	66 - 128	1	14	
Tetrachloroethene	1.0	U	25.0	23.5		ug/L		94	62 - 131	2	20	
trans-1,2-Dichloroethene	1.0	U	25.0	24.6		ug/L		98	56 - 136	2	15	
Trichloroethene	1.0	U	25.0	23.6		ug/L		94	61 - 124	1	15	
Vinyl chloride	1.0	U	12.5	13.6		ug/L		109	43 - 157	13	24	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	106		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

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

Lab Sample ID: MB 240-605892/7
Matrix: Water
Analysis Batch: 605892

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	2.0	U	2.0	0.86	ug/L		03/13/24 10:20	1	

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	107		68 - 127		03/13/24 10:20	1

Lab Sample ID: LCS 240-605892/5
Matrix: Water
Analysis Batch: 605892

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	RPD
1,4-Dioxane	10.0	8.28		ug/L		83	75 - 121	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	109		68 - 127

Lab Sample ID: MB 240-606196/7
Matrix: Water
Analysis Batch: 606196

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	2.0	U	2.0	0.86	ug/L		03/15/24 11:45	1	

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QC Sample Results

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

Job ID: 240-200747-1

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	105		68 - 127		03/15/24 11:45	1

Lab Sample ID: LCS 240-606196/5
Matrix: Water
Analysis Batch: 606196

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>
1,4-Dioxane	10.0	10.1		ug/L		101	75 - 121

<i>Surrogate</i>	<i>%Recovery</i>	<i>LCS LCS Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	109		68 - 127

Lab Sample ID: 240-200747-2 MS
Matrix: Water
Analysis Batch: 606196

Client Sample ID: MW-36-MS_030624
Prep Type: Total/NA

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MS Result</i>	<i>MS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
1,4-Dioxane	1.0	J	10.0	10.8		ug/L		97	20 - 180

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	110		68 - 127

Lab Sample ID: 240-200747-2 MSD
Matrix: Water
Analysis Batch: 606196

Client Sample ID: MW-36-MSD_030624
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>
1,4-Dioxane	1.0	J	10.0	10.0		ug/L		90	20 - 180	7	20

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	109		68 - 127

QC Association Summary

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

Job ID: 240-200747-1

GC/MS VOA

Analysis Batch: 605892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200747-3	MW-38_030624	Total/NA	Water	8260D SIM	
240-200747-4	MW-219S_030624	Total/NA	Water	8260D SIM	
MB 240-605892/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-605892/5	Lab Control Sample	Total/NA	Water	8260D SIM	

Analysis Batch: 606002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200747-1	TRIP BLANK_14	Total/NA	Water	8260D	
240-200747-2	MW-36_030624	Total/NA	Water	8260D	
240-200747-3	MW-38_030624	Total/NA	Water	8260D	
240-200747-4	MW-219S_030624	Total/NA	Water	8260D	
MB 240-606002/7	Method Blank	Total/NA	Water	8260D	
LCS 240-606002/5	Lab Control Sample	Total/NA	Water	8260D	
240-200747-2 MS	MW-36-MS_030624	Total/NA	Water	8260D	
240-200747-2 MSD	MW-36-MSD_030624	Total/NA	Water	8260D	

Analysis Batch: 606196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200747-2	MW-36_030624	Total/NA	Water	8260D SIM	
MB 240-606196/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-606196/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-200747-2 MS	MW-36-MS_030624	Total/NA	Water	8260D SIM	
240-200747-2 MSD	MW-36-MSD_030624	Total/NA	Water	8260D SIM	

Lab Chronicle

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

Job ID: 240-200747-1

Client Sample ID: TRIP BLANK_14

Lab Sample ID: 240-200747-1

Date Collected: 03/06/24 00:00

Matrix: Water

Date Received: 03/08/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	606002	CDG	EET CLE	03/13/24 22:14

Client Sample ID: MW-36_030624

Lab Sample ID: 240-200747-2

Date Collected: 03/06/24 09:35

Matrix: Water

Date Received: 03/08/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	606002	CDG	EET CLE	03/14/24 03:38
Total/NA	Analysis	8260D SIM		1	606196	MDH	EET CLE	03/15/24 15:56

Client Sample ID: MW-38_030624

Lab Sample ID: 240-200747-3

Date Collected: 03/06/24 11:10

Matrix: Water

Date Received: 03/08/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	606002	CDG	EET CLE	03/14/24 04:03
Total/NA	Analysis	8260D SIM		1	605892	MDH	EET CLE	03/13/24 17:05

Client Sample ID: MW-219S_030624

Lab Sample ID: 240-200747-4

Date Collected: 03/06/24 12:30

Matrix: Water

Date Received: 03/08/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	606002	CDG	EET CLE	03/14/24 04:28
Total/NA	Analysis	8260D SIM		1	605892	MDH	EET CLE	03/13/24 17:29

Laboratory References:

EET CLE = Eurofins Cleveland, 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: 240-200747-1

Laboratory: Eurofins Cleveland

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	02-27-24 *
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	06-30-24
New York	NELAP	10975	04-01-24
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

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

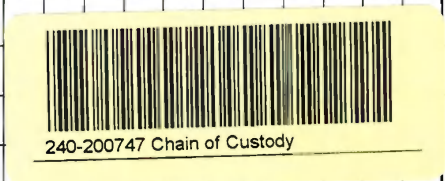


Chain of Custody Record

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

4115

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 Hinsley					Site Contact: Christina Weaver					Lab Contact: Mike DelMonico					COC No:							
Address: 28550 Cabot Drive, Suite 500			Telephone: 248-994-2240					Telephone: 248-994-2240					Telephone: 330-497-9396					1 of 1 COCs							
City/State/Zip: Novi, MI, 48377			Email: kris@arcadis.com					Analysis Turnaround Time					Analyses					For lab use only							
Phone: 248-994-2240			Sampler Name: Garrett Link					TAT if different from below										Walk-in client							
Project Name: Ford LTP On-Site			Method of Shipment/Carrier:					10 day <input checked="" type="checkbox"/>										Lab sampling							
Project Number: 30167538.401.03			Shipping/Tracking No:															Job/SDG No:							
PO # 30167538.401.03																									
Sample Identification	Sample Date	Sample Time	Matrix					Containers & Preservatives										Sample Specific Notes / Special Instructions:							
			Aliq	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH	Upret	Other:	Filtered Sample (Y/N)	Composite=C/ Grab=G		1,1-DCE 82600	cis-1,2-DCE 82600	Trans-1,2-DCE 82600	PCE 82600	TCE 82600	Vinyl Chloride 82600	1,4-Dioxane 82600 SIM
TRIP BLANK_14	---	---	X						1							NG	X	X	X	X	X	X			1 Trip Blank
MW-36_030624	3/6/24	935	6						6							NG	X	X	X	X	X	X			3 VOAs for 82600 3 VOAs for 82600 SIM
MW-36-MS_030624	3/6/24	935	6						6							NG	X	X	X	X	X	X			Run MS/MSD
MW-36-MSD_030624	3/6/24	935	6						6							NG	X	X	X	X	X	X			
MW-38_030624	3/6/24	1110	6						6							NG	X	X	X	X	X	X			
MW-2195_030624	3/6/24	1230	6						6							NG	X	X	X	X	X	X			



Possible Hazard Identification: Non-Hazard Irritable Poison B Inflammable Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return to Client Disposal By Lab Archive For 1 Month

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

Relinquished by: <i>[Signature]</i>	Company: ARCADIS	Date/Time: 3/6/24 14:30	Received by: Novi Cold Storage	Company: ARCADIS	Date/Time: 3/6/24 14:30
Relinquished by: <i>[Signature]</i>	Company: Arcadis	Date/Time: 3/7/24 1530	Received by: <i>[Signature]</i>	Company: EETA	Date/Time: 3/7/24 1530
Relinquished by: <i>[Signature]</i>	Company: EETA	Date/Time: 3/7/24 1600	Received in Laboratory by: <i>[Signature]</i>	Company: EETNC	Date/Time: 3/7/24 8:00

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Platinum = Cleveland Sample Receipt Form/Narrative
 Harborton Facility
 Client Arada's Site Name _____
 Login # _____
 Cooler unpacked by: [Signature]

Cooler Received on 3/18/24 Opened on 3/18/24
 FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____
 Eurofins Cooler # EC Roam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Board Plastic Bag None Other _____
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt: _____ °C
 IR GUN # 92 (OF 0.0 °C) Observed Cooler Temp. _____ °C
 See Multiple Cooler Form

2 Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1
 -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 (LIHg/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 NA
 4. Did custody papers accompany the sample(s)? Yes No NA

5 Were the custody papers relinquished & signed in the appropriate place? Yes No NA
 6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No NA

7 Did all bottles arrive in good condition (Unbroken)? Yes No NA
 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No NA

9 For each sample, does the COC specify preservatives (N), # of containers (N), and sample type of grab/com (N)? Yes No NA
 10 Were correct bottle(s) used for the test(s) indicated? Yes No NA

11 Sufficient quantity received to perform indicated analyses? Yes No NA
 12. Are these work share samples and all listed on the COC? Yes No NA

13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HE316715
 14 Were VOAs on the COC? Yes No NA
 15 Were air bubbles >6 mm in any VOA vials? Yes No NA Larger than this. Hc 329089
 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 603024
 17 Was a LI, Hg or Me Hg trip blank present? Yes No NA

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 _____

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

Login # _____

Eurofins - Canton Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
IC Client Box Other	IR GUN #: 22	3.3	3.3	Wet Ice Blue Ice Dry Ice
IC Client Box Other	IR GUN #: 22	2.3	2.3	Wet Ice Blue Ice Dry Ice
IC Client Box Other	IR GUN #: _____	_____	_____	Wet Ice Blue Ice Dry Ice
IC Client Box Other	IR GUN #: _____	_____	_____	Wet Ice Blue Ice Dry Ice
IC Client Box Other	IR GUN #: _____	_____	_____	Wet Ice Blue Ice Dry Ice
IC Client Box Other	IR GUN #: _____	_____	_____	Wet Ice Blue Ice Dry Ice
IC Client Box Other	IR GUN #: _____	_____	_____	Wet Ice Blue Ice Dry Ice
IC Client Box Other	IR GUN #: _____	_____	_____	Wet Ice Blue Ice Dry Ice
IC Client Box Other	IR GUN #: _____	_____	_____	Wet Ice Blue Ice Dry Ice
IC Client Box Other	IR GUN #: _____	_____	_____	Wet Ice Blue Ice Dry Ice
IC Client Box Other	IR GUN #: _____	_____	_____	Wet Ice Blue Ice Dry Ice
IC Client Box Other	IR GUN #: _____	_____	_____	Wet Ice Blue Ice Dry Ice
IC Client Box Other	IR GUN #: _____	_____	_____	Wet Ice Blue Ice Dry Ice
IC Client Box Other	IR GUN #: _____	_____	_____	Wet Ice Blue Ice Dry Ice
IC Client Box Other	IR GUN #: _____	_____	_____	Wet Ice Blue Ice Dry Ice
IC Client Box Other	IR GUN #: _____	_____	_____	Wet Ice Blue Ice Dry Ice
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IC Client Box Other	IR GUN #: _____	_____	_____	Wet Ice Blue Ice Dry Ice
IC Client Box Other	IR GUN #: _____	_____	_____	Wet Ice Blue Ice Dry Ice
IC Client Box Other	IR GUN #: _____	_____	_____	Wet Ice Blue Ice Dry Ice
IC Client Box Other	IR GUN #: _____	_____	_____	Wet Ice Blue Ice Dry Ice
IC Client Box Other	IR GUN #: _____	_____	_____	Wet Ice Blue Ice Dry Ice
IC Client Box Other	IR GUN #: _____	_____	_____	Wet Ice Blue Ice Dry Ice

540 Temperature Excursion Form

M:\APC\89 Cooler Receipt Form Page 2 - Multiple Cans

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 240-200747-1

Login Number: 200747

List Number: 1

Creator: Loar, Malissa

List Source: Eurofins Cleveland

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		



DATA VERIFICATION REPORT



March 20, 2024

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: 30167538.401.03

Event Specific Scope of Work References: Sample COC

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 200747-1

Sample date: 2024-03-06

Report received by CADENA: 2024-03-20

Initial Data Verification completed by CADENA: 2024-03-20

Number of Samples:4

Sample Matrices: Water and trip blank

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:

GCMS VOC-SIM QC batch 605892 did not include MS/MSD analysis results due to a bad purge on the instrument according to the laboratory submittal case narrative.

HTQ - GCMS VOC preservation was outside of referenced criteria (pH greater than 2) for the following client water matrix samples. VOC GCMS analyses for these samples were NOT analyzed within the holding time for unpreserved GCMS VOC water samples (7 days) so qualification was required for the following sample results. GCMS VOC sample -02 - UJ flags - all results.

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.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

Qualifiers added during verification have been added to the electronic data which is available for download from the CADENA CLMS. Refer to the attached table of analytical results that have been qualified during verification.

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.

Qualified Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 200747-1

Sample Name: MW-36_030624

Lab Sample ID: 2402007472

Sample Date: 3/6/2024

Analyte	Cas No.	Result	Report		Valid	
			Limit	Units	Qualifier	
GC/MS VOC						
<u>OSW-8260D</u>						
1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	UJ	
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	UJ	
Tetrachloroethene	127-18-4	ND	1.0	ug/l	UJ	
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	UJ	
Trichloroethene	79-01-6	ND	1.0	ug/l	UJ	
Vinyl chloride	75-01-4	ND	1.0	ug/l	UJ	

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 200747-1

Analyte	Cas No.	Sample Name: TRIP BLANK_14				Sample Name: MW-36_030624				Sample Name: MW-38_030624				Sample Name: MW-219S_030624			
		Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier

GC/MS VOC

OSW-8260D

1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	1.0	ug/l	UJ	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	UJ	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.0	ug/l	UJ	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	UJ	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	1.0	ug/l	UJ	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	UJ	ND	1.0	ug/l	---	ND	1.0	ug/l	---

OSW-8260DSIM

1,4-Dioxane	123-91-1					1.0	2.0	ug/l	J	ND	2.0	ug/l	---	ND	2.0	ug/l	---
-------------	----------	--	--	--	--	-----	-----	------	---	----	-----	------	-----	----	-----	------	-----