🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Canton 4101 Shuffel Street NW North Canton, OH 44720 Tel: (330)497-9396

Laboratory Job ID: 240-135262-1

Client Project/Site: Ford LTP Off-Site

For:

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

Attn: Kristoffer Hinskey

Authorized for release by: 8/31/2020 3:40:33 PM Jessica Rigdon, Project Management Assistant I (330)966-9268 Jessica.Rigdon@Eurofinset.com

Designee for Michael DelMonico, Project Manager I (330)497-9396 Michael.DelMonico@Eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

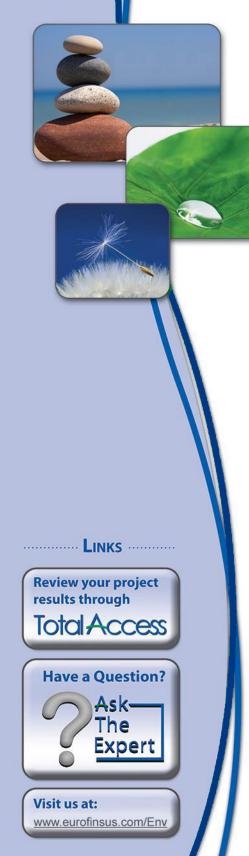


Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	14
Lab Chronicle	15
Certification Summary	16
Chain of Custody	17

Qualifiers

Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	
Glossary		5
Abbreviation	These commonly used abbreviations may or may not be present in this report.	6
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	. 7
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	ð
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	9
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	10
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	11
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	12
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	13
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	11
ML	Minimum Level (Dioxin)	14
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	

Job ID: 240-135262-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP Off-Site

Report Number: 240-135262-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Eurofins TestAmerica, Canton attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to 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.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

RECEIPT

The samples were received on 8/20/2020 9:20 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.8° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TRIP BLANK (240-135262-1) and MW-184S_081820 (240-135262-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/27/2020.

Method 8260B: The continuing calibration verification (CCV) associated with batch 448975 recovered above the upper control limit for Vinyl Chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: TRIP BLANK (240-135262-1) and MW-184S_081820 (240-135262-2).

Method 8260B: No MS/MSD in batch 448975 due to a re-analysis needed.

TRIP BLANK (240-135262-1) and MW-184S_081820 (240-135262-2)

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

Eurofins TestAmerica, Canton 8/31/2020

Job ID: 240-135262-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Sample MW-184S_081820 (240-135262-2) was analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 08/27/2020.

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

Method Summary

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

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

Protocol References:

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

Laboratory References:

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

Sample Summary

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

Lab Sample ID Client Sample ID Matrix Col	ected Received Asset ID
240-135262-1 TRIP BLANK Water 08/18/	0 00:00 08/20/20 09:20
240-135262-2 MW-184S_081820 Water 08/18/	20 16:09 08/20/20 09:20

Detection Sur	nmary
----------------------	-------

Client Sample ID: TRIP BLANK

No Detections.

Client Sample ID: MW-184S_081820

No Detections.

Lab Sample ID: 240-135262-2

Client Sample ID: TRIP BLANK Date Collected: 08/18/20 00:00 Date Received: 08/20/20 09:20

Lab Sample ID: 240-135262-1 Matrix: Water

5 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/27/20 20:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.38	ug/L			08/27/20 20:00	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/27/20 20:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.43	ug/L			08/27/20 20:00	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/27/20 20:00	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/27/20 20:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 130					08/27/20 20:00	1
4-Bromofluorobenzene (Surr)	103		47 - 134					08/27/20 20:00	1
Toluene-d8 (Surr)	101		69 - 122					08/27/20 20:00	1
Dibromofluoromethane (Surr)	113		78 - 129					08/27/20 20:00	

Client Sample ID: MW-184S_081820 Date Collected: 08/18/20 16:09 Date Received: 08/20/20 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/27/20 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		70 - 133					08/27/20 12:56	1
_ Method: 8260B - Volatile O	organic Compo	unds (GC/	MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/27/20 20:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.38	ug/L			08/27/20 20:24	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/27/20 20:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.43	ug/L			08/27/20 20:24	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/27/20 20:24	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/27/20 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 130					08/27/20 20:24	1

Surrogate	%Recovery	Qualifier	Limits	P	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 130			08/27/20 20:24	1
4-Bromofluorobenzene (Surr)	106		47 - 134			08/27/20 20:24	1
Toluene-d8 (Surr)	101		69 - 122			08/27/20 20:24	1
Dibromofluoromethane (Surr)	112		78 - 129			08/27/20 20:24	1

Lab Sample ID: 240-135262-2

Matrix: Water

Surrogate Summary

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

Matrix: Water

Prep Type: Total/NA

			Pe	ercent Surr	ogate Recover	y (Acceptance Limits)	
		DCA	BFB	TOL	DBFM		
Lab Sample ID	Client Sample ID	(75-130)	(47-134)	(69-122)	(78-129)		5
240-135262-1	TRIP BLANK	101	103	101	113		
240-135262-2	MW-184S_081820	103	106	101	112		
LCS 240-448975/5	Lab Control Sample	93	109	104	104		
MB 240-448975/8	Method Blank	102	105	103	109		
Surrogate Legend							
DCA = 1,2-Dichloroet	()						Ö
BFB = 4-Bromofluorol	benzene (Surr)						
TOL = Toluene-d8 (Su	urr)						9
DBFM = Dibromofluor	romethane (Surr)						
Method: 8260B S	SIM - Volatile Organic	Compoun	ds (GC/	MS)			
Matrix: Water				- /		Prep Type: Total/NA	
_			Pe	ercent Surr	ogate Recover	y (Acceptance Limits)	
		DCA					
Lab Sample ID	Client Sample ID	(70-133)					
240-135204-B-3 MS	Matrix Spike	85					
240-135204-B-3 MSD	Matrix Spike Duplicate	87					
240-135262-2	MW-184S_081820	88					
LCS 240-448902/4	Lab Control Sample	85					

85

Surrogate Legend

MB 240-448902/5

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

Method Blank

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/27/20 13:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.38	ug/L			08/27/20 13:48	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/27/20 13:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.43	ug/L			08/27/20 13:48	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/27/20 13:48	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/27/20 13:48	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 130		08/27/20 13:48	1
4-Bromofluorobenzene (Surr)	105		47 - 134		08/27/20 13:48	1
Toluene-d8 (Surr)	103		69 - 122		08/27/20 13:48	1
Dibromofluoromethane (Surr)	109		78 - 129		08/27/20 13:48	1

Lab Sample ID: LCS 240-448975/5 Matrix: Water Analysis Batch: 448975

	Spike	LCS LCS			%Rec.	
Analyte	Added	Result Qualifier	Unit	D %Rec	Limits	
1,1-Dichloroethene	20.0	17.3	ug/L	87	73 - 129	
cis-1,2-Dichloroethene	20.0	16.7	ug/L	84	75 - 124	
Tetrachloroethene	20.0	18.5	ug/L	93	70 - 125	
trans-1,2-Dichloroethene	20.0	17.2	ug/L	86	74 - 130	
Trichloroethene	20.0	17.3	ug/L	87	71 ₋ 121	
Vinyl chloride	20.0	23.8	ug/L	119	61 - 134	
L	.CS LCS					

	203	203	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		75 - 130
4-Bromofluorobenzene (Surr)	109		47 - 134
Toluene-d8 (Surr)	104		69 - 122
Dibromofluoromethane (Surr)	104		78_129

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

Lab Sample ID: MB 240-44890 Matrix: Water Analysis Batch: 448902	2/5						Client Sam	ple ID: Method Prep Type: To	
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/27/20 06:20	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		70 - 133					08/27/20 06:20	1

Prep Type: Total/NA

5 10 **Client Sample ID: Lab Control Sample**

Eurofins TestAmerica, Canton

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

Lab Sample ID: LCS 240- Matrix: Water	-448902/4					Clie	nt Sai	mple ID	: Lab Cor Prep Ty		
Analysis Batch: 448902									Prep Ty	pe. 101	ai/INA
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane			10.0	10.6		ug/L		106	80 - 135		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	85		70 - 133								
Lab Sample ID: 240-1352	04-B-3 MS						CI	lient Sa	mple ID: I	Matrix S	Spike
Matrix: Water									· Prep Ty		
Analysis Batch: 448902											
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	4.4		10.0	13.7		ug/L		94	46 - 170		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	85		70 - 133								
Lab Sample ID: 240-1352	04-B-3 MSD					Client	Samp	le ID: N	latrix Spil	ke Dup	licate
Matrix: Water									Prep Ty		
Analysis Batch: 448902											
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	4.4		10.0	12.9		ug/L		85	46 - 170	6	26
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	87		70 - 133								

GC/MS VOA

Analysis Batch: 448902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
240-135262-2	MW-184S_081820	Total/NA	Water	8260B SIM	·	
MB 240-448902/5	Method Blank	Total/NA	Water	8260B SIM		
LCS 240-448902/4	Lab Control Sample	Total/NA	Water	8260B SIM		
240-135204-B-3 MS	Matrix Spike	Total/NA	Water	8260B SIM		
240-135204-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM		
Analysis Batch: 4489	75					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Bato	:h
240-135262-1	TRIP BLANK	Total/NA	Water	8260B	
240-135262-2	MW-184S_081820	Total/NA	Water	8260B	
MB 240-448975/8	Method Blank	Total/NA	Water	8260B	
LCS 240-448975/5	Lab Control Sample	Total/NA	Water	8260B	

8/31/2020

Lab Sample ID: 240-135262-1

Client Sample ID: TRIP BLANK Date Collected: 08/18/20 00:00 Date Re

Date Collecte Date Receive									Matrix: Water
Pren Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab	
Prep Type Total/NA	Analysis	8260B				08/27/20 20:00		TAL CAN	
Client Sam	ple ID: MW	-184S_0818	20				Lab Sa	mple ID:	240-135262-2
Date Collecte	d: 08/18/20 1	6:09						_	Matrix: Water

Date Collected: 08/18/20 16:09 Date Received: 08/20/20 09:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	448975	08/27/20 20:24	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	448902	08/27/20 12:56	TJL2	TAL CAN

Laboratory References:

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

8/31/2020

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP Off-Site Job ID: 240-135262-1

Laboratory: Eurofins TestAmerica, Canton

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-21
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21
llinois	NELAP	004498	07-31-20 *
owa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21
Kentucky (WW)	State	KY98016	12-31-20
Vinnesota	NELAP	OH00048	12-31-20
Vinnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	06-05-21
Dregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-20
Texas	NELAP	T104704517-18-10	08-31-20
JSDA	US Federal Programs	P330-18-00281	09-17-21
/irginia	NELAP	010101	09-14-20
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

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

L90 TestAmer	TestAmerica Laboratory location: Brighton	1	10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	8116 / 810-229-:	2763			THE LEADER IN ENVIRONMENTAL TESTIC
Client Contact Company Name: Arcadis	Regulatory program:	DW	- NPDES - RCRA	Other			1	Tart American Laboratoria Tar
Addaments of the American State 200	Client Project Manager: Kris Hinskey	linskey	Site Contact: Julia McClafferty		Lab Contact: Mike DelMonico	Mike DelMo	nico	COC No:
Autress, 20500 Capot DTVC, 2016 500	Telephone: 248-994-2240		Telephone: 734-644-5131		Telephone: 330-497-9396	0-497-9396		
	Email: kristoffer.hinskey@arcadis.com	adis.com	Analysis Turnaround Time			Ana	Analyses	For lab use only
			TAT if different from below					Walk-in client
Project Name: Ford LTP Off-Site Project Number: 30050315.402.04	Andrew Method of Shipment/Carrier:	Banitt	10 day C 2 weeks				W	Lab sampling
PO#30050315,402.04	Shipping/Tracking No:		☐ 2 days ☐ 1 day	ederado				Job/SDG No.
Sample Identification	Sample Date Sample Time	Adneous Adneous Adneous Air	Other: Contributes Contribute	Filtered Samp	12-DCE 8	LCE 95008	8 ansxoiO-4, l 8 ansxoiO-4, l	Sample Specific Notes / Special Instructions:
Trip Blank			1	NGX	×	×	XX	1 Trir Blank
MW-1845-081820	8/18/20 1609	6	9	NGX	× ×	XX	XX	52
				240-	240-135262 Chain of Custody	ain of Cus	Nbo	
					-	-		
Possible Hazard Identification	- Poison B		Sample Disposal (A fee muy be assessed if samples are retained longer than 1 month) Return to Client Disposal BV Jab	assessed if samp Disnosal Bv Lab	es are retaine	d longer tha	u 1 month) Months	
ø/QC Requirements & Comment through Cadena at jtomalia@				and forman from			critic (craz)	
evel IV Reporting requested.								
Relinquished by South / Andrew Ban H	Compary	Bate/Time \$/15/20	1717 Received by	Cold St.	Storage	Compar	Compary Scadis	Bate Time B/16/20 1717
Judie Mayberg	Company Ancali's	S/19/2	100 Received by W	2		Compar	Company. ENAL M/	Date The 20 11:00
remaining the man .	ENA MI		11201 Received in Laboratory by	Com	then	Company	Et A	Bate Time: 8-20 900
Protomers & Residences Law Automatics for All Protomers and accounties, free				2	þ		7	
1								

8/31/2020

lient Ariadis Site Name	Cooler unpacked by:
	(And)
edEx: 1 st Grd (Exp) UPS FAS Clipper Client Drop Off TestAmerica Courier	
Receipt After-hours: Drop-off Date/Time Storage Location	the second se
 Packing material used: Buble Wrap Foam Plastic Bag None Other COOLANT: Wether Blue Ice Dry Ice Water None Cooler temperature upon receipt See Multiple Cooler IR GUN# IR-10 (CF +0.7 °C) Observed Cooler Temp. °C Corrected Cooler IR GUN #IR-11 (CF +0.9 °C) Observed Cooler Temp. °C Corrected Cooler. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity - Were the seals on the outside of the cooler(s) signed & dated? Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Were tamper/custody seals intact and uncompromised? Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)? Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC? Did all bottle labels be reconciled with the COC? Were correct bottle(s) used for the test(s) indicated? Were these work share samples? If yes, Questions 12-16 have been checked at the originating laboratory. Were VOAs on the COC? 	er Temp. °C er Temp. 3.5 °C es No res No
5. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Ves AND NA Ces_No Ves (Pro)
5. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	(es_No Ves (No)
5. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # A 6. Was a LL Hg or Me Hg trip blank present? Y Contacted PM Date by via Verbal	(es_No Ves (No)
 5. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 6. Was a LL Hg or Me Hg trip blank present? 	(es_No Ves (No)
5. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # &	Voice Mail Other
5. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # A 6. Was a LL Hg or Me Hg trip blank present? Y Contacted PM Date by via Verbal	(es_No Ves (No)
5. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # & 6. Was a LL Hg or Me Hg trip blank present? Y Contacted PM Date by via Verbal Concerning 7. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	Voice Mail Other Samples processed by:
5. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # A 6. Was a LL Hg or Me Hg trip blank present? Y Contacted PM Date by via Verbal Concerning 7. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	Voice Mail Other Samples processed by:
5. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # & 6. Was a LL Hg or Me Hg trip blank present? Y Contacted PM Date by via Verbal Concerning 7. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	Voice Mail Other Samples processed by:
5. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # & 6. Was a LL Hg or Me Hg trip blank present? Y Contacted PM Date by via Verbal Concerning 7. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	Voice Mail Other Samples processed by:
5. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # A 6. Was a LL Hg or Me Hg trip blank present? Y Contacted PM Date by via Verbal Concerning 7. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	Voice Mail Other Samples processed by:
5. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # & 6. Was a LL Hg or Me Hg trip blank present? Y Contacted PM Date by via Verbal Concerning 7. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	Voice Mail Other Samples processed by:
5. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # & 6. Was a LL Hg or Me Hg trip blank present? Y Contacted PM Date by via Verbal Concerning 7. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES 8. SAMPLE CONDITION	Voice Mail Other Samples processed by:
5. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # & 6. Was a LL Hg or Me Hg trip blank present? Y Contacted PM Date by via Verbal Concerning 7. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES 8. SAMPLE CONDITION Example(s) were received after the recommended ho	Voice Mail Other Samples processed by:
5. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # & 6. Was a LL Hg or Me Hg trip blank present? Y Contacted PM Date by via Verbal Concerning 7. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES 8. SAMPLE CONDITION Cample(s) were received after the recommended ho Cample(s)	Voice Mail Other Samples processed by: Olding time had expired. Ved in a broken container.
5. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # & 6. Was a LL Hg or Me Hg trip blank present? Y Contacted PM Date by via Verbal Concerning 7. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES 8. SAMPLE CONDITION Example(s) were received after the recommended ho	Voice Mail Other Samples processed by: Olding time had expired. Ved in a broken container.
5. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # & 6. Was a LL Hg or Me Hg trip blank present? Y Contacted PM Date by via Verbal Concerning 7. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES 8. SAMPLE CONDITION Cample(s) were received after the recommended ho Cample(s)	Voice Mail Other Samples processed by: Olding time had expired. Ved in a broken container.
5. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #Y 6. Was a LL Hg or Me Hg trip blank present?Y Contacted PM Date by via Verbal Concerning 7. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES 8. SAMPLE CONDITION Comple(s) were received after the recommended ho Comple(s) were received with bubble >6 mr Comple(s)	Voice Mail Other Samples processed by: Olding time had expired. Ved in a broken container.
5. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #Y 6. Was a LL Hg or Me Hg trip blank present?Y Contacted PM Date by via Verbal Concerning 7. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES 8. SAMPLE CONDITION Comple(s) were received after the recommended ho Comple(s) were received with bubble >6 mr Comple(s)	Voice Mail Other Samples processed by: Olding time had expired. Ved in a broken container. m in diameter. (Notify PM)

WI-NC-099

DATA VERIFICATION REPORT



August 31, 2020

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631 Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater Project number: 30050315.0402.04 off site Event Specific Scope of Work References: Sample COC Laboratory: TestAmerica - North Canton Laboratory submittal: 135262-1 Sample date: 2020-08-18 Report received by CADENA: 2020-08-31 Initial Data Verification completed by CADENA: 2020-08-31 Number of Samples:2 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.

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, 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 <u>http://clms.cadenaco.com/index.cfm</u>.

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.
В	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 contaminates) 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.
Е	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
ЛН	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 contaminates) 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: E203631 Laboratory: TestAmerica - North Canton Laboratory Submittal: 135262-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401352 8/18/20	2621			MW-184S_081820 2401352622 8/18/2020			
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-8260</u>	<u>)B</u>									
	1,1-Dichloroethene	75-35-4	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	
	Tetrachloroethene	127-18-4	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	
	Trichloroethene	79-01-6	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	
<u>OSW-8260</u>)BBSim									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

DATA REVIEW

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-135262-1 CADENA Verification Report: 2020-08-31

Analyses Performed By: TestAmerica Edison, New Jersey

Report #38148R Review Level: Tier III Project: 30050315.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-135262-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) includes a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

				Sample		ļ	Analysis	
SDG	Sample ID	Lab ID	Matrix	Collection Date	Parent Sample	VOC (Full Scan)	VOC (SIM)	MISC
040 405000 4	TRIP BLANK	240-135262-1	Water	8/18/2020		х		
240-135262-1	MW-184S_081820	240-135262-2	Water	8/18/2020		Х	Х	

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

		Rep	orted		mance ptable	Not
	Items Reviewed	No	Yes	No	Yes	Required
1. San	nple receipt condition		Х		Х	
2. Rec	quested analyses and sample results		Х		Х	
3. Mas	ster tracking list		Х		Х	
4. Met	hods of analysis		Х		Х	
5. Rep	porting limits		Х		Х	
6. San	nple collection date		Х		Х	
7. Lab	oratory sample received date		Х		Х	
8. San	nple preservation verification (as applicable)		Х		Х	
9. San	nple preparation/extraction/analysis dates		Х		Х	
10. Full	y executed Chain-of-Custody (COC) form		Х		Х	
	rative summary of Quality Assurance or sample blems provided		х		Х	
12. Data	a Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260B and 8260B SIM. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/8260B-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
TRIP BLANK MW-184S_081820	CCV %D	Vinyl chloride	+20.6%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

DATA REVIEW

Initial/Continuing	Criteria	Sample Result	Qualification
	RRF <0.05	Non-detect	R
		Detect	J
Initial and Continuing	RRF <0.01 ¹	Non-detect	R
Calibration		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
	KKF 20.03 01 KKF 20.01	Detect	NO ACION
	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
Initial Calibration		Detect	J
Initial Calibration	%RSD >90%	Non-detect	R
	%R3D >90 %	Detect	J
		Non-detect	No Action
	%D >20% (increase in sensitivity)	Detect	J
Continuing Colibration		Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
		Non-detect	R
	%D >90% (increase/decrease in sensitivity)	Detect	J

Note:

¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate was not performed on a sample within this SDG.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

DATA REVIEW

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260B/8260B-SIM	Re	eported		ormance eptable	Not
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMET	RY (GC/I	MS)			
Tier II Validation					
Holding times/Preservation		X		X	
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	Х		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Field Duplicate RPD		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		X		х	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE:

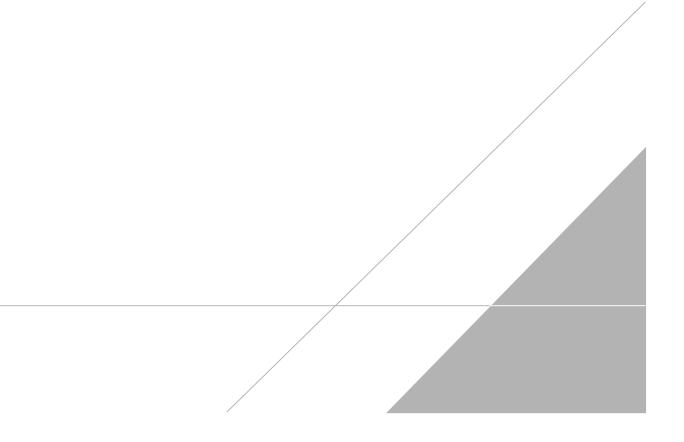
Jough c. House

DATE: September 8, 2020

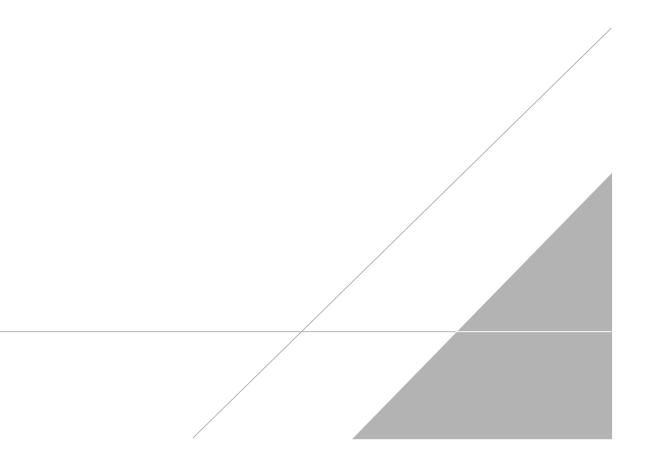
PEER REVIEW: Andrew Korycinski

DATE: September 9, 2020

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



Client Sample ID: TRIP BLANK Date Collected: 08/18/20 00:00 Date Received: 08/20/20 09:20

Lab Sample ID: 240-135262-1 Matrix: Water

5 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/27/20 20:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.38	ug/L			08/27/20 20:00	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/27/20 20:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.43	ug/L			08/27/20 20:00	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/27/20 20:00	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/27/20 20:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 130					08/27/20 20:00	1
4-Bromofluorobenzene (Surr)	103		47 - 134					08/27/20 20:00	1
Toluene-d8 (Surr)	101		69 - 122					08/27/20 20:00	1
Dibromofluoromethane (Surr)	113		78 - 129					08/27/20 20:00	1

Client Sample ID: MW-184S_081820 Date Collected: 08/18/20 16:09 Date Received: 08/20/20 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/27/20 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		70 - 133					08/27/20 12:56	1
_ Method: 8260B - Volatile O	rganic Compo	unds (GC/	MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/27/20 20:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.38	ug/L			08/27/20 20:24	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/27/20 20:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.43	ug/L			08/27/20 20:24	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/27/20 20:24	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/27/20 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 130					08/27/20 20:24	1

Surrogate	%Recovery	Qualifier	Limits	P	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 130			08/27/20 20:24	1
4-Bromofluorobenzene (Surr)	106		47 - 134			08/27/20 20:24	1
Toluene-d8 (Surr)	101		69 - 122			08/27/20 20:24	1
Dibromofluoromethane (Surr)	112		78 - 129			08/27/20 20:24	1

Lab Sample ID: 240-135262-2

Matrix: Water

190 TestAmer	TestAmerica Laboratory location: Brighton	1	10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	8116 / 810-229-	2763			THE LEADER IN ENVIRONMENTAL TESTIN
Client Contact Commany Name: Arcadie	Regulatory program:	DW -	- NPDES - RCRA	Other			1	T and a standard to a strand standard to a strand standard to a strand standard to a strand standard standard s
addama sume stands	Client Project Manager: Kris Hinskey	linskey	Site Contact: Julia McClafferty		Lab Contact: Mike DelMonico	Mike DelM	onico	COC No:
Autress, 20500 Capot DTVC, Julie 200	Telephone: 248-994-2240		Telephone: 734-644-5131		Telephone: 330-497-9396	60-497-9396		20100 P
	Email: kristoffer.hinskey@arcadis.com	adis.com	Analysis Turnaround Time			Ana	Analyses	oniy
1000 - 2000 - 2000			TAT if different from below					Walk-in client
	And Nethod of Shipment/Carrier:	Bantt	10 day 5 weeks 10 day 7 2 weeks 1 week		E		WI	Lab sampling
PO#30050315,402.04	Shipping/Tracking No:		☐ 2 days ☐ 1 day	-deraD \				Job/SDG No:
Sample Identification	Sample Date Sample Time	Air Sediment Sediment Matrix Aqueous Air Air Air	Office: Dubies Anoth Zanoth Naioh HCI HROJ Onthere Contributes Anoth Contributes HROJ Disconting HROJ HROJ	†,†-DCE 8260 Composite≕C	cis-1,2-DCE 8	LCE 95608	Vinyl Chloride 8 ansxoiC-4,†	Sample Specific Notes / Special Instructions:
Trip Blank	8/18/20 -	1		NGX	××	×	XX	1 Trir Blank
MW-1845-081820	8/18/20 1609	6	9	NGX	××	XX	XX	3 VOAS FOR \$260B
				240-	240-135262 Chain of Custody	ain of Cus	tody + + + + + + + + + + + + + + + + + + +	
						-		
Possible Hazard Identification ∇ Non-Hazard ∇ 'lammable $ \nabla$ an Imitant	Poison B	□ Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	assessed if samp Disposal By Lab	es are retaine	d longer tha	n 1 month) Months	
Comment								
Relinquish of B. A. I. A. A. R. A. H.	Company:	Date/Time:	1717 Received by:			Compar	Comparty:	1.
all Maller	Company Cong 15	5/15/20 Date/Time	- 0	*	570(296	Compar	Company. ENAL M/	Date Type 20 11:00
Relinquipted by My "	Company ENA MI		11:01 Received in Laboratory by	topy by:	then	Compage	Ett	BaterTime: 920
Percent Landonecca Landonece. In: All physicianeced accentores. Inc.				4	þ		P	
1								

8/31/2020