Transmittal Letter



то
Robert / Sharon Toth
Shawn Collins
Jeanne Schlaufman (EGLE)
Todd Walton (Ford)
Chuck Pinter (Ford)
Rob Boley (Schiff Hardin LLP)

FROM Kris Hinskey 248-994-2240

DATE April 15, 2022

PROJECT NUMBER 30080642

COPIES TO

SUBJECT Shallow Groundwater Assessment Data Package – 11845 Boston Post

We are sending you:

Copies	Date	Drawing No.	Rev.	Description	Action*
1	4/15/2022			Figure	
1	4/15/2022			Analytical Results	
1	4/15/2022			Field Notes	

Action*

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Certified/Registered Mail	United Parcel Service (UPS)	SedEx Standard Overnight	FedEx Economy
🛛 Other:Email			

Comments:

Thank you for cooperating with the groundwater sampling at your property on February 16, 2022. Attached is your data package.



CITY: NOVI DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY TM: A. PAULSON TR: M.WACKSMAN PROJECT NUMBER: MI001454.000300001 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Z: (GISProjects)_ENVNovBrighton_MI/FordUvonia/GIS\docs/2019-03\MW_Locations/11845BostonPostMW-1765.mxd PLOTTED: 3/15/2019 12:00:12 PM BY: msmiller

🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 240-162956-1

Client Project/Site: Ford LTP - Off-Site

For:

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

Attn: Kristoffer Hinskey

Mole Del your

Authorized for release by: 2/28/2022 1:37:55 PM

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.



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Qualifiers

GC/MS VOA	
Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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)

- TEQ Toxicity Equivalent Quotient (Dioxin)
- TNTC Too Numerous To Count

Job ID: 240-162956-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-162956-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 2/23/2022 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 0.4° C and 4.1° C.

GC/MS VOA

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

VOA Prep

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

Job ID: 240-162956-1

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

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-162956-1	TRIP BLANK_25	Water	02/16/22 00:00	02/23/22 08:00
240-162956-2	MW-176S_021622	Water	02/16/22 10:36	02/23/22 08:00

Detection Summary

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

Client Sample ID: TRIP BLANK_25

No Detections.

Client Sample ID: MW-176S_021622

No Detections.

Job ID: 240-162956-1

Lab Sample ID: 240-162956-1

Lab Sample ID: 240-162956-2

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK_25 Date Collected: 02/16/22 00:00 Date Received: 02/23/22 08:00

Job	ID:	240-	1629	56-1
000	ıD.	270-	1020	00-1

Lab Sample ID: 240-162956-1

Matrix: Water

5

8 9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/24/22 16:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/22 16:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/22 16:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/22 16:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/22 16:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/24/22 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137			-		02/24/22 16:42	1
4-Bromofluorobenzene (Surr)	100		56 - 136					02/24/22 16:42	1
Toluene-d8 (Surr)	85		78 - 122					02/24/22 16:42	1
Dibromofluoromethane (Surr)	87		73 - 120					02/24/22 16:42	1

Client Sample ID: MW-176S_021622 Date Collected: 02/16/22 10:36 Date Received: 02/23/22 08:00

Job ID: 240-162956-1	
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Lab Sample ID: 240-162956-2 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	5
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/24/22 02:46	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	81		66 - 120					02/24/22 02:46	1	
Method: 8260B - Volatile O	rganic Compo	unds (GC/	MS)							
Analyte	-	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	8
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/24/22 17:04	1	
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/22 17:04	1	9
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/22 17:04	1	
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/22 17:04	1	
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/22 17:04	1	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/24/22 17:04	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	94		62 - 137					02/24/22 17:04	1	
4-Bromofluorobenzene (Surr)	105		56 - 136					02/24/22 17:04	1	
Toluene-d8 (Surr)	90		78 - 122					02/24/22 17:04	1	
Dibromofluoromethane (Surr)	91		73 - 120					02/24/22 17:04	1	

Surrogate Summary

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

Percent Surrogate Recovery (Acceptance Limits) DCA BFB DBFM TOL (62-137) (73-120) Lab Sample ID **Client Sample ID** (56-136) (78-122) 240-162944-A-2 MS Matrix Spike 87 88 97 90 240-162944-F-2 MSD Matrix Spike Duplicate 100 90 86 88 240-162956-1 TRIP BLANK 25 91 100 85 87 240-162956-2 MW-176S 021622 94 105 90 91 LCS 240-518641/5 Lab Control Sample 79 105 85 82 Method Blank MB 240-518641/8 79 95 80 79 Surrogate Legend DCA = 1,2-Dichloroethane-d4 (Surr) BFB = 4-Bromofluorobenzene (Surr) TOL = Toluene-d8 (Surr) DBFM = Dibromofluoromethane (Surr) Method: 8260B SIM - Volatile Organic Compounds (GC/MS) Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)	
		DCA		13
Lab Sample ID	Client Sample ID	(66-120)		
240-162956-2	MW-176S_021622	81		
240-162970-G-3 MS	Matrix Spike	81		
240-162970-M-3 MSD	Matrix Spike Duplicate	80		
LCS 240-518602/3	Lab Control Sample	79		
MB 240-518602/4	Method Blank	79		
Surrogate Legend				

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

Prep Type: Total/NA

5

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

Lab Sample ID: MB 240-518641/8 Matrix: Water

Analysis Batch: 518641

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/24/22 11:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/22 11:31	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/22 11:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/22 11:31	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/22 11:31	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/24/22 11:31	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		62 - 137		02/24/22 11:31	1
4-Bromofluorobenzene (Surr)	95		56 - 136		02/24/22 11:31	1
Toluene-d8 (Surr)	80		78 - 122		02/24/22 11:31	1
Dibromofluoromethane (Surr)	79		73 - 120		02/24/22 11:31	1

Lab Sample ID: LCS 240-518641/5 Matrix: Water Analysis Batch: 518641

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	19.5		ug/L		97	63 - 134	
cis-1,2-Dichloroethene	20.0	18.7		ug/L		94	77 - 123	
Tetrachloroethene	20.0	18.7		ug/L		93	76 - 123	
trans-1,2-Dichloroethene	20.0	19.2		ug/L		96	75 - 124	
Trichloroethene	20.0	18.0		ug/L		90	70 - 122	
Vinyl chloride	20.0	18.7		ug/L		93	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	79		62 - 137
4-Bromofluorobenzene (Surr)	105		56 - 136
Toluene-d8 (Surr)	85		78 - 122
Dibromofluoromethane (Surr)	82		73 - 120

90

Lab Sample ID: 240-162944-A-2 MS **Matrix: Water** Analysis Batch: 518641

Toluene-d8 (Surr)

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	20.0	19.0		ug/L		95	56 - 135
cis-1,2-Dichloroethene	1.0	U	20.0	18.6		ug/L		93	66 - 128
Tetrachloroethene	1.0	U	20.0	18.3		ug/L		92	62 - 131
trans-1,2-Dichloroethene	1.0	U	20.0	18.6		ug/L		93	56 - 136
Trichloroethene	1.0	U	20.0	17.5		ug/L		87	61 - 124
Vinyl chloride	1.0	U	20.0	18.6		ug/L		93	43 - 157
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	88		62 - 137						
4-Bromofluorobenzene (Surr)	97		56 - 136						

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Job ID: 240-162956-1

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

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QC Sample Results

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

Lab Sample ID: 240-162944-A-2 MS **Client Sample ID: Matrix Spike** Matrix: Water Prep Type: Total/NA Analysis Batch: 518641 MS MS %Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 87 73 - 120 **Client Sample ID: Matrix Spike Duplicate** Lab Sample ID: 240-162944-F-2 MSD Matrix: Water Prep Type: Total/NA Analysis Batch: 518641 Sample Sample Spike MSD MSD %Rec. RPD **Result Qualifier** Added Limits RPD Limit Analyte **Result Qualifier** Unit D %Rec 1.0 U 1,1-Dichloroethene 20.0 18.8 ug/L 94 56 - 135 1 26 cis-1,2-Dichloroethene 1.0 U 20.0 184 ug/L 92 66 - 128 14 1 Tetrachloroethene 1.0 U 20.0 18.7 ug/L 94 62 - 131 2 20 trans-1.2-Dichloroethene 1.0 U 20.0 18.9 94 15 ug/L 56 - 136 1 Trichloroethene 1.0 U 20.0 17.6 ug/L 88 61 - 124 1 15 Vinyl chloride 1.0 U 20.0 18.9 ug/L 95 43 - 157 2 24 MSD MSD %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 88 62 - 137 4-Bromofluorobenzene (Surr) 100 56 - 136 Toluene-d8 (Surr) 90 78 - 122 Dibromofluoromethane (Surr) 86 73 - 120 Method: 8260B SIM - Volatile Organic Compounds (GC/MS) Lab Sample ID: MB 240-518602/4 **Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA** Analysis Batch: 518602 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 02/23/22 19:41 1 MB MB Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 79 66 - 120 02/23/22 19:41 1 Lab Sample ID: LCS 240-518602/3 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Analysis Batch: 518602 Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit D %Rec 1,4-Dioxane 10.0 9.02 ug/L 90 80 - 122 LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 79 **Client Sample ID: Matrix Spike** Lab Sample ID: 240-162970-G-3 MS Prep Type: Total/NA Matrix: Water Analysis Batch: 518602 Sample Sample Spike MS MS %Rec. **Result Qualifier** Added **Result Qualifier** Limits Analyte Unit D %Rec 1,4-Dioxane 2.0 U 10.0 10.5 ug/L 105 51 - 153

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

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	81		66 - 120									
 Lab Sample ID: 240-1629	70-M-3 MSD					Client	Samn		latrix Spil	ke Dun	licate	
Matrix: Water						Unorth	oump		Prep Ty			
Analysis Batch: 518602												
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
1,4-Dioxane	2.0	U	10.0	10.2		ug/L		102	51 - 153	3	16	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	80		66 - 120									Ē

QC Association Summary

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

GC/MS VOA

Analysis Batch: 518602

Lab Sample ID 240-162956-2	Client Sample ID MW-176S_021622	Prep Type Total/NA	Matrix Water	Method 8260B SIM	Prep Batch
MB 240-518602/4	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-518602/3	Lab Control Sample	Total/NA	Water	8260B SIM	
240-162970-G-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-162970-M-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	
Analysis Batch: 5186	41				

Lab Sample ID 240-162956-1	Client Sample ID TRIP BLANK_25	Prep Type Total/NA	Matrix Water	Method 8260B	Prep Batch
240-162956-2	MW-176S_021622	Total/NA	Water	8260B	
MB 240-518641/8	Method Blank	Total/NA	Water	8260B	
LCS 240-518641/5	Lab Control Sample	Total/NA	Water	8260B	
240-162944-A-2 MS	Matrix Spike	Total/NA	Water	8260B	
240-162944-F-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Matrix: Water

Lab Sample ID: 240-162956-1

Client Sample ID: TRIP BLANK_25 Date Collected: 02/16/22 00:00 Date Received: 02/23/22 08:00

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8260B		1	518641	02/24/22 16:42	TJL1	TAL CAN	
Client Samp	ole ID: MW	-176S_0216	22				Lab Sa	mple ID:	240-16295
Date Collected	d: 02/16/22 1	0:36							Matrix: Wa
Date Collected									Μ

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	518641	02/24/22 17:04	TJL1	TAL CAN
Total/NA	Analysis	8260B SIM		1	518602	02/24/22 02:46	CS	TAL CAN

Laboratory References:

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

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off-Site Job ID: 240-162956-1

Laboratory: Eurofins Canton

accreditations/certifications held b	canton by this laboratory are listed. Not all ac	ccreditations/certifications are applicable to	o this report.	!
Authority	Program	Identification Number	Expiration Date	
California	State	2927	02-23-22 *	
Connecticut	State	PH-0590	12-31-21 *	
Florida	NELAP	E87225	06-30-22	
Georgia	State	4062	02-23-22 *	
Illinois	NELAP	200004	07-31-22	
lowa	State	421	06-01-23	
Kansas	NELAP	E-10336	04-30-22	
Kentucky (UST)	State	112225	02-23-22 *	
Kentucky (WW)	State	KY98016	12-31-22	
Minnesota	NELAP	039-999-348	12-31-22	
Minnesota (Petrofund)	State	3506	08-01-23	
New Jersey	NELAP	OH001	11-06-22	
New York	NELAP	10975	03-31-22	
Ohio	State	8303	02-23-23	
Ohio VAP	State	CL0024	12-21-23	
Pennsylvania	NELAP	68-00340	08-31-22	
Texas	NELAP	T104704517-21-14	08-31-22	
Virginia	NELAP	11570	09-14-22	i i i i i i i i i i i i i i i i i i i
Washington	State	C971	01-12-23	
West Virginia DEP	State	210	12-31-22	

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

Client Context Regulatory program: DN MDA International context International context <thint< th=""><th>Client Catest Regulatory program: DWIS RCRA. Other 10 Andre Solution Table NCC Solution NMIS RCRA. Other 10 Hith. Solution Table NCC Solution NMIS RCRA. Other 11 Hith. Solution Table NCC Solution Table NCC Solution Analysis 11 Hith. Solution Table NCC Solution Table NCC Solution Analysis 11 Hith. Solution Solution Table NCC Solution Analysis 12 Solution None Solution Analysis 12 Solution Solution Analysis Analysis 13 Solution Solution Analysis Analysis 14 Analysis Solution Analysis Analysis 14 Analysis Solution Analysis Analysis 14 Analysis Analysis Analysis Analysis 14 Analysis Analysis Analysis Analysis 14 Anal</th><th>Interf Regulatory program: DN MDBS ICODA Dotation ICODA<th></th><th>TestAmerica Laboratory location: Brighton — 10448 Citati</th><th>Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763</th><th>-2763</th><th></th></th></thint<>	Client Catest Regulatory program: DWIS RCRA. Other 10 Andre Solution Table NCC Solution NMIS RCRA. Other 10 Hith. Solution Table NCC Solution NMIS RCRA. Other 11 Hith. Solution Table NCC Solution Table NCC Solution Analysis 11 Hith. Solution Table NCC Solution Table NCC Solution Analysis 11 Hith. Solution Solution Table NCC Solution Analysis 12 Solution None Solution Analysis 12 Solution Solution Analysis Analysis 13 Solution Solution Analysis Analysis 14 Analysis Solution Analysis Analysis 14 Analysis Solution Analysis Analysis 14 Analysis Analysis Analysis Analysis 14 Analysis Analysis Analysis Analysis 14 Anal	Interf Regulatory program: DN MDBS ICODA Dotation ICODA <th></th> <th>TestAmerica Laboratory location: Brighton — 10448 Citati</th> <th>Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763</th> <th>-2763</th> <th></th>		TestAmerica Laboratory location: Brighton — 10448 Citati	Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	-2763	
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Date/Time/2 1737 Reverved by Cold Storage Company, Compan	Journal achadur Company Compan						

2/28/2022

Eurofins TestAmerica Canton Sample Receipt Form/Narrative	Login # : 162456
lient Ford LTP, Site Name	Cooler unpacked by:
	DAG
poler Received on 2/33/22 Opened on 2/33/22	
edEx: 1 st Grd Exp UPS FAS (Clipper) Client Drop Off l TestAmerica Courier	Other
eceipt After-hours: Drop-off Date/TimeStorage Location	
estAmerica Cooler # Foam Box Client Cooler Box Other	
COOLANT: Wet Ice Blue Ice Dry Ice Water None Cooler temperature upon receipt	
IR GUN# IR-14 (CF -0.2 °C) Observed Cooler Temp. °C Corrected Cooler IR GUN #IR-15 (CF -0.7°C) Observed Cooler Temp. °C Corrected Cooler	Temp. °C
	No No
	Tests that are not
	Checked for pri by
	S No NA Receiving:
Shippers' packing slip attached to the cooler(s)?	voAs
	Oil and Grease
Were the custody papers relinquished & signed in the appropriate place?	TOC TOC
	No
	No
	No
For each sample, does the COC specify preservatives (Y), # of containers (Y)N), and s	ample type of grab/comp(Y)N)?
0. Were correct bottle(s) used for the test(s) indicated? 33^{33}	s No
1. Sufficient quantity received to perform indicated analyses?	No
2. Are these work share samples and all listed on the COC? Ye	s No
If yes, Questions 13-17 have been checked at the originating laboratory.	
If yes, Questions 13-17 have been checked at the originating laboratory.3. Were all preserved sample(s) at the correct pH upon receipt?Ye	s No NA pH Strip Lot# HC15784
If yes, Questions 13-17 have been checked at the originating laboratory. 3. Were all preserved sample(s) at the correct pH upon receipt? 4. Were VOAs on the COC?	s No (NA) pH Strip Lot# <u>HC15784</u> 5) No
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Login #: 162956

Cooler Description	IR Gun #	Observed	Corrected	Coolant
(Circle)	(Circle)	Temp °C	Temp °C	(Circle)
TA Client Box Other	IR-14 IR-15	4.3	4.1	Water None
TA Client Box Other	IR-14 IR-15	0.6	0.4	Wet Ice Blue Ice Dry Water None
TA Client Box Other	IR-14 JR-15			Wet ice Blue ice Dry I Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry I Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry I Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry I Water None
TA Client Box Other	IR-14 IR-15			Wetice Blueice Dry I Water None
TA Client Box Other	IR-14 IR-15		 A second sec second second sec	Wet Ice Blue Ice Dry I Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry I Water None
TA Client Box Other	IR-14 IR-15		· · · · · · · · · · · · · · · · · · ·	Wetice Blue ice Dry I Water None
TA Client Box Other	IR-14 IR-15			Wetice Blue ice Dry I Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry I Water None
TA Client Box Other	IR-14 IR-15			Wetice Blueice Dry I Water None
TA Client Box Other	IR-14 IR-15			Wetice Sive ice Dry I Water None
TA Client Box Other	IR-14 IR-15			Wetice Blueice Dry i Water None
TA Client Box Other	IR-14 IR-15			Wetice Blueice Dry H Water None
TA Client Box Other	IR-14 IR-15			Wetice Blueice Dry I Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry I Water None
TA Client Box Other	1R-14 IR-15			Wet Ice Blue Ice Dry & Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry & Water None
TA Client Box Other	IR-14 IR-15			Wetice Blueice Dry is Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry is Water None
TA Client Box Other	IR-14 IR-15			Weilce Bluelce Dry k Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry is Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry is Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry is Water None
TA Client Box Other	iR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry k Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry k Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ic Water None
TA Client Box Other	1R-14 IR-15			Wetice Blueice Dry lo Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client Box Other	IR-14 IR-15			Wetice Blueice Dry k Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None

14

WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

DATA VERIFICATION REPORT



February 28, 2022

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: 30080642.402.04 WA04 OFF-SITE GW Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - North Central Laboratory submittal: 162956-1 Sample date: 2022-02-16 Report received by CADENA: 2022-02-28 Initial Data Verification completed by CADENA: 2022-02-28 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 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.
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 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: Eurofins Environment Testing LLC - North Central Laboratory Submittal: 162956-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401629 2/16/20	9561			MW-176 2401629 2/16/20			
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC	-									
<u>OSW-8260</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>	<u>BBSim</u>									
	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 # 240-162956-1 CADENA Verification Report: 2022-02-28

Analyses Performed By: TestAmerica North Canton, Ohio

Report # 44693R Review Level: Tier III Project: 30080642.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-162956-1 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) include 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:

					Analysis					
	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	voc	VOC SIM			
	TRIP BLANK_25	240-162956-1	Water	02/16/2022		х				
-	MW-176S_021622	240-162956-2	Water	02/16/2022		Х	Х			

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance ptable	Not
	No	Yes	No	Yes	Required
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		Х		Х	
3. Master tracking list		Х		Х	
4. Methods of analysis		Х		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
9. Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
11. Narrative summary of Quality Assurance or sample problems provided		х		Х	
12. Data 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.

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 sample was not collected for samples from this SDG.

6. Compound Identification

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

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	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		X	
Tier III Validation					1
System performance and column resolution		Х		X	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
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		Х		Х	
D. Transcription/calculation errors present		Х		Х	
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:	Bhagyashree Fulzele
SIGNATURE:	Bfutzele
DATE:	March 03, 2022

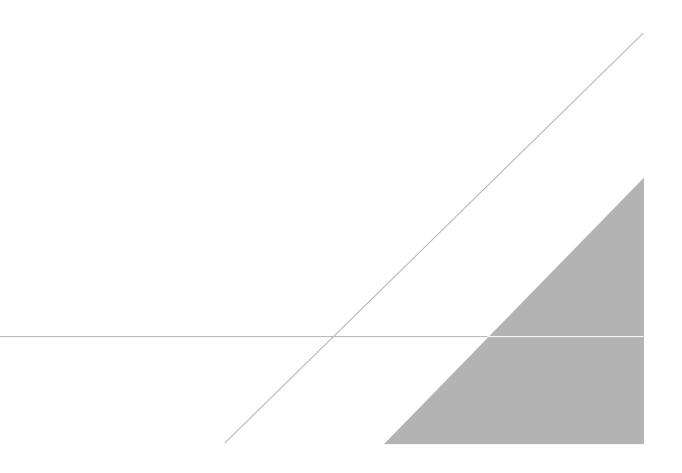
PEER REVIEW: Andrew Korycinski

DATE: March 8, 2022

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record



HONMENTAL TESTING

THE LEADER IN ENVI

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

ompany Name: Arcadis															_										boratories,
ddress: 28550 Cabot Drive, Suite 500	Client Project	Manager: Kris	Hinsk	(ey			Site C	ontact	: Jul	lia Me	Claffe	erty			Lab	Conta	ct: Mi	ike Del	Monic		COC	No:			
	Telephone: 248	-994-2240					Telep	hone:	734-6	644-51	31				Tele	elephone: 330-497-9396									
ity/State/Zip: Novi, MI, 48377	Email: kristof	er.hinskey@ar	cadis	com				nalysis	s Tur	narou	nd Ti	me	T	1	_			A	nalvs	es				1 of 1 use only	COCs
hone: 248-994-2240			caus.							-	_				T	T		T							
roject Name: Ford LTP Off-Site	Sampler Name		2				TAT	differen		3 wc	eks												Walk-i	1 client	
roject Number: 30080642.402.04	Gary Method of Ship	Schat	RY				10	day	-	2 we													Lab sa	npling	
	sternod of Ship	ment/Carrier:							-	l we 2 da		- 1	2 S			8			8	SIM					
O # 30080642.402.04	Shipping/Tracl	ing No:					1		-t-	l da	У	- 1	5	5	60B	826			8260	260B			Job/SD	G No:	
	-				Matrix		(ontain	ers &	Prese	rvativ	es	Iduus	e=C/	E 83	DCE	0		ride	1e 8			1		
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Settiment	Other:	HZSOM	HCI	HOW	ZaAc/ NaOH	Unpres	Other:	Filtered Sample (Y / N)	1,1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride 8260B	1,4-Dioxane 8260B SIM					cific Notes / structions:
TRIP BLANK_ 25				X	T			1	T				NI	6 X	1	-	X	X	X				11	rip Bla	nk
MW-1765-021622	62/1/22	10:36	П	x	+	+	$\uparrow \uparrow$	6					N	+	X	x	X	x	x	X				OAs for	8260B 8260B SIN
	_							+		-		IN THE REAL) 							+		_		
			\vdash		+		++	-	+	+											+				
			\vdash		+			+	+	+	240	-1629	56 C	hain d	of Cu	stody	(1011	_	+		+		
					+	-	+	+	-	+		1	1	1	1	1	1	1					+		
			Ħ		+		††	T	+					-	+-	+					-		+		
Possible Hazard Identification							Sai	nple D	lispos	sal (Á	fee n	ay be as	sessed	1 if sam	iples a	re reta	ined k	onger	han 1	month		<u> </u>			
Non-Hazard Flammable Skin Irr pecial Instructions/QC Requirements & Comments:	itant Pois	on B	Unk	nown		_		Ret	um te	o Clier	1t	- Di	sposal	By Lat	1	Γ.	Archiv	e For	_	Mo	nths				
ample Address: 1/845 Boston Post ubmit all results through Cadena at itomalia@cadena evel IV Reporting requested.	co.com. Cadena i	E203631																							
clinquished by Jary Achalen	Company	dis				2	17.	37	1/	ceived Br	1. 0	colo	ls	stor	49	e		Com	pany	Rac	lis		Date/	ime /22	173
elinquished by:	Company Company: F= E T C	ichi		Date/ Date/	116	22			Rei	Cerved A	Py/	aberator		_	0			Com	pany:	T/4	lis		Date/T 2-1 Date/T	ime:	100
Chundhard of 1	Company.			L'raic/	18.		123		INC	ceived		ADE SIOL	V DV:		-	-	-	I.om	pany:	-	1		Date/l	ume:	

02/28/2022

Client Sample ID: TRIP BLANK_25

Date Collected: 02/16/22 00:00

Date Received: 02/23/22 08:00

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Dibromofluoromethane (Surr)

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	0.49	ug/L			02/24/22 16:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/22 16:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/22 16:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/22 16:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/22 16:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/24/22 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137			-		02/24/22 16:42	1
4-Bromofluorobenzene (Surr)	100		56 - 136					02/24/22 16:42	1

78 - 122

73 - 120

Client Sample ID: MW-176S_021622 Date Collected: 02/16/22 10:36 Date Received: 02/23/22 08:00

85

87

91

Method: 8260B SIM - Volatile Organic Compounds (GC/MS) Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 02/24/22 02:46 0.86 ug/L 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 66 - 120 02/24/22 02:46 81 1 Method: 8260B - Volatile Organic Compounds (GC/MS) Analvte **Result Qualifier** RL MDL Unit Dil Fac D Prepared Analvzed

					•		
1,1-Dichloroethene	1.0	U	1.0	0.49 ug/L		02/24/22 17:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46 ug/L		02/24/22 17:04	1
Tetrachloroethene	1.0	U	1.0	0.44 ug/L		02/24/22 17:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51 ug/L		02/24/22 17:04	1
Trichloroethene	1.0	U	1.0	0.44 ug/L		02/24/22 17:04	1
Vinyl chloride	1.0	U	1.0	0.45 ug/L		02/24/22 17:04	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137			02/24/22 17:04	1
4-Bromofluorobenzene (Surr)	105		56 - 136			02/24/22 17:04	1
Toluene-d8 (Surr)	90		78 - 122			02/24/22 17:04	1

73 - 120

Job ID: 240-162956-1

02/24/22 16:42

02/24/22 16:42

02/24/22 17:04

Lab Sample ID: 240-162956-2

1

1

1

Matrix: Water

Lab Sample ID: 240-162956-1 Matrix: Water

ARCADIS

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1 Project No. 30080642.402.01 Well ID MW-176S Date 2-16-22
 Top of Casing
 Screen Setting (ft-bmp)

 6.86
 Total Depth (ft-bmp)
 Project Name/Location 44.1 degrees F and Cloudy. Well Material Weather Measuring Pt. Description Static Water Level (ft-bmp) 5-10 Casing Diameter (in.) PVC Gallons in Well Sample Method Water Column (ft.) Purge Method 2.43 Low-Flow 9.29 8.36 0.39 Pump Intake (ft-bmp) Grab Well Volumes Purged 5.13 Volume Purged Replicate/Code No. Sample Time: 10:36 2 gallons Sampled by Label Gary Schafer Purge Start 9:43 Dans Purge End 10:48 Dehiefon Flow Rate (mL/min [100-300 mL/min] Depth to Water Total Gallon Purged Appearance Time nutes Elap Cond Turbidity (NTU) [± 10%*] Temp. (°C) [± 3%] pH [± 0.1] Redox (mV) [± 10mV] between (ft) [± 0.3] (mS/cm) [± 3%] (mg/L) [± 10%] Color Readings Clear, Small Brown Particulates Clear, Small Brown 9:45 0 150 6.90 0.00 7.37 0.39 23.00 1.75 8.4 118.7 No Odor Particulate Clear, Sma Brown 9:50 5 150 6.90 0.20 7.58 0.37 12.10 1.26 8.4 91.4 No Odor 9:55 5 150 6.90 0.40 7.68 0.36 6.38 0.92 8.4 75.4 Particulate Clear, Sma No Odor Brown 10:00 5 150 6.90 0.60 7.73 0.34 3.12 0.80 8.4 68.0 Particulate No Odor 10:05 150 6.90 0.80 7.77 0.33 1.07 0.73 8.4 60.9 Clear No Odor 10:10 150 6.90 1.00 7.77 0.33 0.88 0.66 8.4 57.4 Clear No Odor 10:15 150 6.90 1.20 7.79 0.33 0.27 0.88 8.4 52.8 Clear No Odor 10:20 150 6.90 1.40 7.79 0.33 0.11 0.76 8.4 47.4 Clear No Odor 10:25 150 6.90 1.60 7.80 0.33 0.02 0.66 8.4 44.2 Clear No Odor 5 150 7.80 0.33 0.16 0.64 8.4 40.7 Clear No Odor 10:30 5 6.90 1.80 10:35 5 150 6.90 2.00 7.81 0.33 0.10 0.65 8.4 36.7 Clear No Odor Turbidity < 50 NTL JTU of a pr 10 NTL Constituents Sampled 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC Container Number Preservative 40 mL Glass HCL 3 1,4-dioxane 40 mL Glass 3 HCL Comments None Well Casing Volumes Gallons/Foot 1" = 0.04 6" = 1.47 1.5" = 0.09 2.5'' = 0.263.5'' = 0.50Well Information Well Location: Well Locked at Arrival: 11845 Boston Post; front yard yes Condition of Well: Well Locked at Departure: yes

yes

 Condition of Well:
 Good
 Well Locked at De

 Well Completion:
 Flush mount
 Lock Functioning:

SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

 Project No.:
 30080642.402.01
 Page 1
 of 1

 Site Location:
 Ford LTP 11845 Boston Post; front yard
 Image 1
 Image 1

Prepared By: Gary Schafer

Date	Time	Description of Activities			
2/16/2022	9:16	Arrive onsite			
2/16/2022	9:25	Record static depth to water			
2/16/2022	9:43	Begin purging well			
2/16/2022	10:36	Collect sample MW-176S_021622			
2/16/2022	10:48	End purge and turn off pump, begin decon of equipment			
2/16/2022	10:53	Offsite			
		Field staff signature:			
		Harry John			
		Periode			