

From: Wayne Fassbender <wfassbender@enviroforensics.com>
Sent: Tuesday, February 21, 2023 3:20 PM
To: Beggs, Tauren R - DNR
Subject: Jagemann Plating Results BRRTS #02-36-555544
Attachments: Jagemann Plating 1st Quarter 2023 Sampling Results.pdf

Hi Tauren:

Here is a summary of the latest GW sampling results. It is just a summary, and the semi-annual report will be more complete. Good trends!

Wayne Fassbender, Senior Project Manager
EnviroForensics®
Wisconsin Office/P.O. Box 128/Oconomowoc, WI/53066
262-490-6472 | enviroforensics.com

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MEMORANDUM

TO: Mike Jagemann
Jagemann Plating

FROM: Wayne Fassbender

COPY: Tauren Beggs, WDNR as a courtesy

DATE: February 20, 2023

SUBJECT: 1st Quarterly Post-remedial Sampling Results

Attached is a summary table containing the most recent January, 2023 groundwater sampling results. I have also included in the table the latest round of groundwater samples previously collected by Robert E. Lee consultants of the monitoring wells that are part of our current post-remediation monitoring network. This was done to make it easier for us to track future contaminant reductions across all of the wells being monitored. A figure is attached which illustrates the location of injection points and groundwater monitoring wells.

As can be seen in the Table of results and attached laboratory reports, although most wells still contain concentrations of chlorinated volatile organic compounds (CVOCs) above enforcement standards, TCE continues to degrade into the daughter products DCE and vinyl chloride and overall the CVOC concentrations are decreasing. The presence of significant methane indicates that microbial populations are currently strong, and the presence of ethane and ethene indicate that complete biodegradation of vinyl chloride is currently occurring.

Two wells (TW-20 and TW-24) had substantially increased concentrations of various CVOCs and this may be due to initial spreading of more concentrated CVOCs caused by displacement of groundwater during the pressurized injection process. It is anticipated that these concentrations will trend downward over time.

In addition to the groundwater results, one (1) sub-slab sample was collected at the location of SSV-13 shown on the attached figure. The vapor sample contained significant concentrations of CVOCs above vapor risk screening levels as can be seen in the attached laboratory documentation. This sample was collected in one of the more highly impacted areas. It is anticipated that as the soil and groundwater concentrations of CVOCs decrease over time, so will the concentrations of CVOCs in the vapor phase.

Table 1
Groundwater Sampling Results
Jagemann Plating

Monitoring Well Sample ID	Date Sampled	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl chloride	1,1-Dichloroethane	1,1-Dichloroethene	Ethane	Ethene	Methane	Total Organic Carbon (mg/L)
Enforcement Standard		5	70	100	0.2	850	7				
Preventative Action Limit		0.5	7	20	0.02	85	0.7				
MW-1	12/30/2016 Pre	390	148	9.0	125						
	3/28/2019 Pre	703	252	23.6	430						
	6/20/2019 Pre	895	316	24.6	410						
	6/24/2021 Pre	946	400	33.5	697						
	6/16/2022 Pre	902	442	41.6	750	4.9 J	24.8	90.6	26.9	1,090	30
	8/22/2022 Pilot	<3.8	2,140	47	390			37.8	9.58	428	1,380
	10/6/2022 Pilot	0.40	46	99	41			191	3.38	112	406
	1/31/2023 Post	<0.32	1.1	3.2	3.3	8.2	<0.29	33.3	1,170	1,760	514
MW-3	6/24/2021 Pre	67.30	54.7	1.2	3.6	<0.3	1.9				
	1/31/2023 Post	39.8	63.7	2.2	5.2	<0.3	1.6			2.3 J	
MW-8	6/24/2021 Pre	61.2	586	59.3	111	<3.0	<5.8				
	1/31/2023 Post	23.1	377	57.6	98.3	<1.5	<2.9	3.4 J	2.2 J	42.2	
MW-14	12/30/2016 Pre	36,000	31,400	870	5,900						
	3/28/2019 Pre	12,800	14,000	669	5,150						
	6/20/2019 Pre	15,000	16,500	824	5,540						
	6/24/2021 Pre	16,200	17,600	861	6,410						
	6/16/2022 Pre	28,100	32,200	2,530	8,300	<73.9	150 J	5,190	283	2,720	8.98
	8/22/2022 Pilot	4,800	40,000	810	17,000			3,400	249	1,400	1,770
	10/6/2022 Pilot	<190	11,500	880	62,000			3,260	103	391	799
	1/31/2023 Post	58.5 J	9,760	513	41,500	<37.0	<72.8	145	5,520	957	2,600
MW-15	6/24/2021 Pre	370	162	4.7	233	<0.59	73.0				
	1/31/2023 Post	17.3	520	3.9 J	59.7	<1.5	11.6	29.1	31.3	554.0	
TW-20	6/16/2022 Pre	69,200	160,000	2,050	40,100	542 J	687.0				
	1/31/2023 Post	251,000	82,100	482	9,360	<118	838.0	182	919	126	1,600.0
TW-21	2/2/2022 Pre	345	842	129	166	<3.0	14.8				
	1/31/2023 Post	<0.32	421	45.9	104	<0.3	<0.58	19.5	97.2	1,390.0	983.0
TW-22	2/2/2022 Pre	8.1	126	9.9	166	0.94 J	<1.2				
	1/31/2023 Post	3.1	150	15.2	550	0.61 J	<1.2	2.8 J	6.8	40.1	
TW-23	2/2/2022 Pre	109	163	1.3 J	19.9	<0.59	10.9				
	1/31/2023 Post	72.9	197	0.82 J	10.9	<0.3	13.4	1.7 J	0.56 J	25.0	
TW-24	2/2/2022 Pre	125	84.1	4.2	409	<0.3	34.3				
	1/31/2023 Post	1,380	1,750	66.9	692	<7.4	76.7	9.5	158.0	38.6	
SUMP-1	6/14/2022 Pre	23.9	26.2	0.88 J	2.5	<0.3	<0.58				
	1/31/2023 Post	16.5	8.2	<0.53	0.49 J	<0.3	<0.58				
SUMP-2	6/15/2011 Pre	72.0	45.3	2.0	0.31 J	<0.75	<0.57				
	1/31/2023 Post	31.6	17.5	<0.53	<0.17	<0.3	<0.58				

All results are in micrograms per liter µg/l

Pre: the most recent concentrations prior to the start of any remedial injections

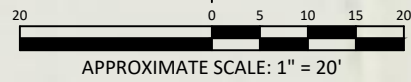
Pilot: concentrations in select wells following remedial pilot study injections






Post: concentrations following full-scale remedial injections

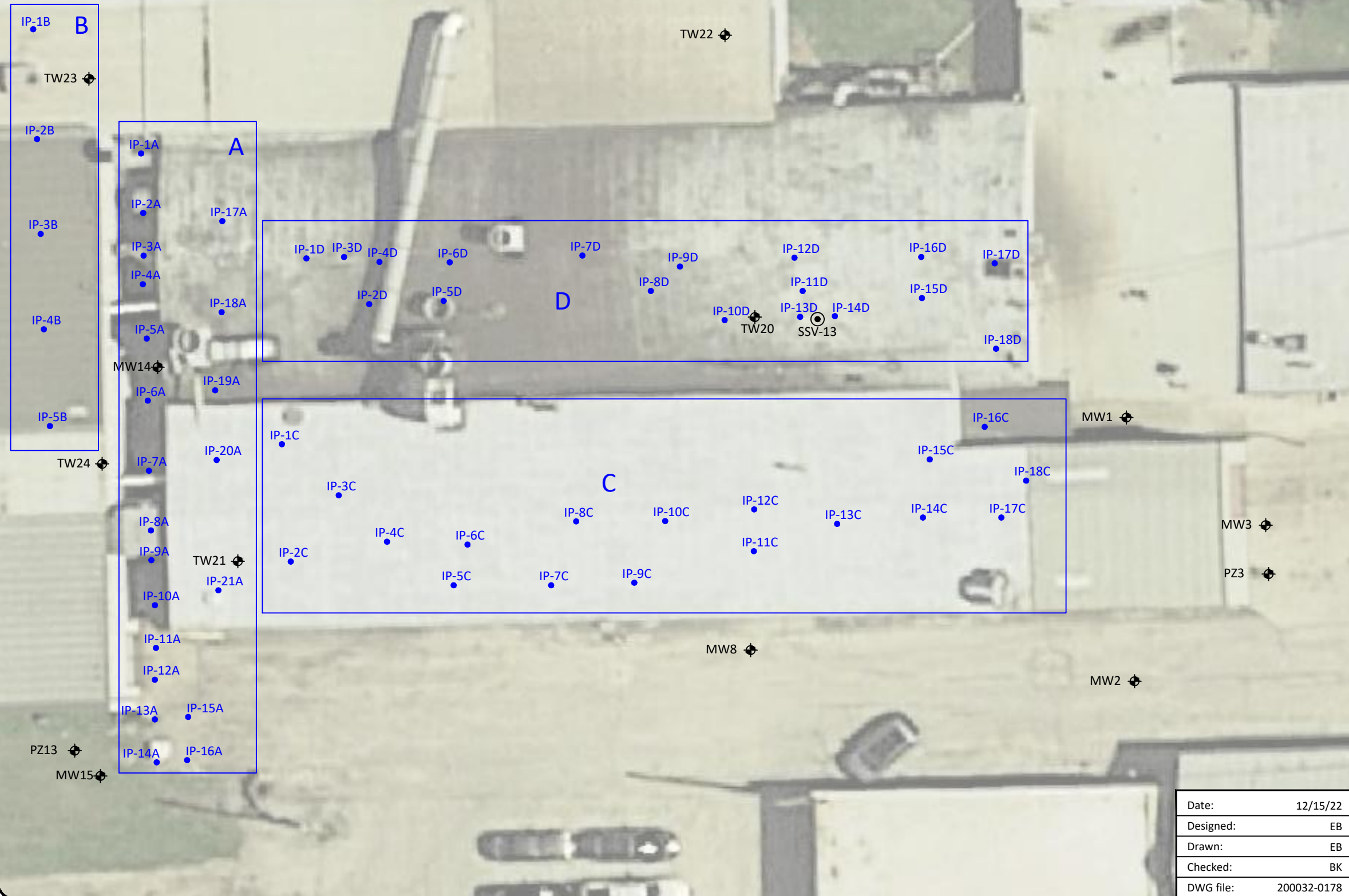
Orange Coloring: Concentration exceeds the groundwater enforcement standard (ES)

Blue Coloring: Concentration exceeds the groundwater preventative action limit (PAL)

"J" Flag: Analyte was detected at a concentration above the detection limits but was below the laboratory limits of quantification




- Legend**
- MW1  Monitoring well
 - TW21  Temporary monitoring well
 - PZ3  Piezometer
 - IP-1A  Injection location
 - SSV-13  Sub-slab vapor sample



INJECTION POINT LAYOUT	
Jagemann Plating Company 1324 South 26th Street Manitowoc, Wisconsin	
	Figure 4
	Project 200032

Date:	12/15/22
Designed:	EB
Drawn:	EB
Checked:	BK
DWG file:	200032-0178



825 North Capital Avenue • Indianapolis, IN 46204
EnviroForensics.com

February 15, 2023

Wayne Fassbender
Enviroforensics
N16 W23390 Stone Ridge Drive
Suite G
Waukesha, WI 53188

RE: Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

Dear Wayne Fassbender:

Enclosed are the analytical results for sample(s) received by the laboratory on February 02, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

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SAMPLE SUMMARY

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40257729001	20032-MW1	Water	01/31/23 13:15	02/02/23 07:35
40257729002	20032-MW3	Water	01/31/23 13:50	02/02/23 07:35
40257729003	20032-MW8	Water	01/31/23 13:40	02/02/23 07:35
40257729004	20032-MW14	Water	01/31/23 11:35	02/02/23 07:35
40257729005	20032-MW15	Water	01/31/23 12:06	02/02/23 07:35
40257729006	20032-TW20	Water	01/31/23 11:05	02/02/23 07:35
40257729007	20032-TW21	Water	01/31/23 14:03	02/02/23 07:35
40257729008	20032-TW22	Water	01/31/23 14:20	02/02/23 07:35
40257729009	20032-TW23	Water	01/31/23 12:40	02/02/23 07:35
40257729010	20032-TW24	Water	01/31/23 12:20	02/02/23 07:35
40257729011	20032-SUMP 1	Water	01/31/23 10:30	02/02/23 07:35
40257729012	20032-SUMP 2	Water	01/31/23 10:45	02/02/23 07:35
40257729013	20032-DUP 1	Water	01/31/23 00:00	02/02/23 07:35
40257729014	20032-DUP 2	Water	01/31/23 00:00	02/02/23 07:35
40257729015	20032-TB1	Water	01/31/23 00:00	02/02/23 07:35

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SAMPLE ANALYTE COUNT

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40257729001	20032-MW1	EPA 8015B Modified	KHB	3	PASI-G
		EPA 8260	EIB	64	PASI-G
		SM 5310C	TJJ	1	PASI-G
40257729002	20032-MW3	EPA 8015B Modified	KHB	3	PASI-G
		EPA 8260	EIB	64	PASI-G
40257729003	20032-MW8	EPA 8015B Modified	KHB	3	PASI-G
		EPA 8260	CXJ	64	PASI-G
40257729004	20032-MW14	EPA 8015B Modified	KHB	3	PASI-G
		EPA 8260	CXJ	64	PASI-G
		SM 5310C	TJJ	1	PASI-G
40257729005	20032-MW15	EPA 8015B Modified	KHB	3	PASI-G
		EPA 8260	EIB	64	PASI-G
40257729006	20032-TW20	EPA 8015B Modified	KHB	3	PASI-G
		EPA 8260	EIB	64	PASI-G
		SM 5310C	TJJ	1	PASI-G
40257729007	20032-TW21	EPA 8015B Modified	KHB	3	PASI-G
		EPA 8260	EIB	64	PASI-G
		SM 5310C	TJJ	1	PASI-G
40257729008	20032-TW22	EPA 8015B Modified	KHB	3	PASI-G
		EPA 8260	EIB	64	PASI-G
40257729009	20032-TW23	EPA 8015B Modified	KHB	3	PASI-G
		EPA 8260	EIB	64	PASI-G
40257729010	20032-TW24	EPA 8015B Modified	KHB	3	PASI-G
		EPA 8260	EIB	64	PASI-G
40257729011	20032-SUMP 1	EPA 8260	EIB	64	PASI-G
40257729012	20032-SUMP 2	EPA 8260	EIB	64	PASI-G
40257729013	20032-DUP 1	EPA 8260	EIB	64	PASI-G
40257729014	20032-DUP 2	EPA 8260	EIB	64	PASI-G
40257729015	20032-TB1	EPA 8260	EIB	64	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40257729001	20032-MW1					
EPA 8015B Modified	Ethane	33.3	ug/L	5.6	02/09/23 09:30	
EPA 8015B Modified	Ethene	1170	ug/L	50.0	02/09/23 12:03	
EPA 8015B Modified	Methane	1760	ug/L	28.0	02/09/23 12:03	
EPA 8260	1,1-Dichloroethane	8.2	ug/L	1.0	02/06/23 10:13	
EPA 8260	cis-1,2-Dichloroethene	1.1	ug/L	1.0	02/06/23 10:13	
EPA 8260	trans-1,2-Dichloroethene	3.2	ug/L	1.0	02/06/23 10:13	
EPA 8260	Vinyl chloride	3.3	ug/L	1.0	02/06/23 10:13	
SM 5310C	Total Organic Carbon	514	mg/L	30.0	02/07/23 12:29	
40257729002	20032-MW3					
EPA 8015B Modified	Methane	2.3J	ug/L	2.8	02/09/23 12:59	
EPA 8260	Dichlorodifluoromethane	5.9	ug/L	5.0	02/03/23 15:02	
EPA 8260	1,1-Dichloroethene	1.6	ug/L	1.0	02/03/23 15:02	
EPA 8260	cis-1,2-Dichloroethene	63.7	ug/L	1.0	02/03/23 15:02	
EPA 8260	trans-1,2-Dichloroethene	2.2	ug/L	1.0	02/03/23 15:02	
EPA 8260	Trichloroethene	39.8	ug/L	1.0	02/03/23 15:02	
EPA 8260	Vinyl chloride	5.2	ug/L	1.0	02/03/23 15:02	
40257729003	20032-MW8					
EPA 8015B Modified	Ethane	3.4J	ug/L	5.6	02/09/23 09:45	pH
EPA 8015B Modified	Ethene	2.2J	ug/L	5.0	02/09/23 09:45	pH
EPA 8015B Modified	Methane	42.2	ug/L	2.8	02/09/23 09:45	pH
EPA 8260	cis-1,2-Dichloroethene	377	ug/L	5.0	02/03/23 17:37	
EPA 8260	trans-1,2-Dichloroethene	57.6	ug/L	5.0	02/03/23 17:37	
EPA 8260	Trichloroethene	23.1	ug/L	5.0	02/03/23 17:37	
EPA 8260	Vinyl chloride	98.3	ug/L	5.0	02/03/23 17:37	
40257729004	20032-MW14					
EPA 8015B Modified	Ethane	145	ug/L	5.6	02/09/23 09:51	pH
EPA 8015B Modified	Ethene	5520	ug/L	125	02/09/23 14:22	pH
EPA 8015B Modified	Methane	957	ug/L	28.0	02/09/23 13:12	pH
EPA 8260	cis-1,2-Dichloroethene	9760	ug/L	125	02/03/23 17:18	
EPA 8260	trans-1,2-Dichloroethene	513	ug/L	125	02/03/23 17:18	
EPA 8260	Trichloroethene	58.5J	ug/L	125	02/03/23 17:18	
EPA 8260	Vinyl chloride	41500	ug/L	400	02/06/23 10:53	pH
SM 5310C	Total Organic Carbon	2600	mg/L	500	02/07/23 12:45	
40257729005	20032-MW15					
EPA 8015B Modified	Ethane	29.1	ug/L	5.6	02/09/23 09:59	
EPA 8015B Modified	Ethene	31.3	ug/L	5.0	02/09/23 09:59	
EPA 8015B Modified	Methane	554	ug/L	11.2	02/09/23 13:19	
EPA 8260	Dichlorodifluoromethane	2.8J	ug/L	25.0	02/03/23 18:28	
EPA 8260	1,1-Dichloroethene	11.6	ug/L	5.0	02/03/23 18:28	
EPA 8260	cis-1,2-Dichloroethene	520	ug/L	5.0	02/03/23 18:28	
EPA 8260	trans-1,2-Dichloroethene	3.9J	ug/L	5.0	02/03/23 18:28	
EPA 8260	Trichloroethene	17.3	ug/L	5.0	02/03/23 18:28	
EPA 8260	Vinyl chloride	59.7	ug/L	5.0	02/03/23 18:28	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40257729006	20032-TW20					
EPA 8015B Modified	Ethane	182	ug/L	5.6	02/09/23 10:06	
EPA 8015B Modified	Ethene	919	ug/L	20.0	02/09/23 13:26	
EPA 8015B Modified	Methane	126	ug/L	2.8	02/09/23 10:06	
EPA 8260	1,1-Dichloroethene	838	ug/L	400	02/03/23 17:06	
EPA 8260	cis-1,2-Dichloroethene	82100	ug/L	400	02/03/23 17:06	
EPA 8260	trans-1,2-Dichloroethene	482	ug/L	400	02/03/23 17:06	
EPA 8260	Trichloroethene	251000	ug/L	1000	02/06/23 11:15	
EPA 8260	Vinyl chloride	9360	ug/L	400	02/03/23 17:06	
SM 5310C	Total Organic Carbon	1600	mg/L	500	02/07/23 12:59	
40257729007	20032-TW21					
EPA 8015B Modified	Ethane	19.5	ug/L	5.6	02/09/23 10:13	
EPA 8015B Modified	Ethene	97.2	ug/L	5.0	02/09/23 10:13	
EPA 8015B Modified	Methane	1390	ug/L	70.0	02/09/23 13:33	
EPA 8260	cis-1,2-Dichloroethene	421	ug/L	10.0	02/06/23 10:33	
EPA 8260	trans-1,2-Dichloroethene	45.9	ug/L	10.0	02/06/23 10:33	
EPA 8260	Vinyl chloride	104	ug/L	10.0	02/06/23 10:33	
SM 5310C	Total Organic Carbon	983	mg/L	500	02/07/23 13:12	
40257729008	20032-TW22					
EPA 8015B Modified	Ethane	2.8J	ug/L	5.6	02/09/23 10:20	
EPA 8015B Modified	Ethene	6.8	ug/L	5.0	02/09/23 10:20	
EPA 8015B Modified	Methane	40.1	ug/L	2.8	02/09/23 10:20	
EPA 8260	Dichlorodifluoromethane	2.4J	ug/L	10.0	02/03/23 18:49	
EPA 8260	1,1-Dichloroethane	0.61J	ug/L	2.0	02/03/23 18:49	
EPA 8260	cis-1,2-Dichloroethene	150	ug/L	2.0	02/03/23 18:49	
EPA 8260	trans-1,2-Dichloroethene	15.2	ug/L	2.0	02/03/23 18:49	
EPA 8260	Trichloroethene	3.1	ug/L	2.0	02/03/23 18:49	
EPA 8260	Vinyl chloride	550	ug/L	2.0	02/03/23 18:49	
40257729009	20032-TW23					
EPA 8015B Modified	Ethane	1.7J	ug/L	5.6	02/09/23 10:27	
EPA 8015B Modified	Ethene	0.56J	ug/L	5.0	02/09/23 10:27	
EPA 8015B Modified	Methane	25.0	ug/L	2.8	02/09/23 10:27	
EPA 8260	Dichlorodifluoromethane	19.9	ug/L	5.0	02/03/23 16:45	
EPA 8260	1,1-Dichloroethene	13.4	ug/L	1.0	02/03/23 16:45	
EPA 8260	cis-1,2-Dichloroethene	197	ug/L	1.0	02/03/23 16:45	
EPA 8260	trans-1,2-Dichloroethene	0.82J	ug/L	1.0	02/03/23 16:45	
EPA 8260	Trichloroethene	72.9	ug/L	1.0	02/03/23 16:45	
EPA 8260	Vinyl chloride	10.9	ug/L	1.0	02/03/23 16:45	
40257729010	20032-TW24					
EPA 8015B Modified	Ethane	9.5	ug/L	5.6	02/09/23 10:34	
EPA 8015B Modified	Ethene	158	ug/L	5.0	02/09/23 10:34	
EPA 8015B Modified	Methane	38.6	ug/L	2.8	02/09/23 10:34	
EPA 8260	Dichlorodifluoromethane	75.2J	ug/L	125	02/03/23 17:47	
EPA 8260	1,1-Dichloroethene	76.7	ug/L	25.0	02/03/23 17:47	
EPA 8260	cis-1,2-Dichloroethene	1750	ug/L	25.0	02/03/23 17:47	
EPA 8260	trans-1,2-Dichloroethene	66.9	ug/L	25.0	02/03/23 17:47	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40257729010	20032-TW24					
EPA 8260	Trichloroethene	1380	ug/L	25.0	02/03/23 17:47	
EPA 8260	Vinyl chloride	692	ug/L	25.0	02/03/23 17:47	
40257729011	20032-SUMP 1					
EPA 8260	cis-1,2-Dichloroethene	8.2	ug/L	1.0	02/03/23 15:43	
EPA 8260	Trichloroethene	16.5	ug/L	1.0	02/03/23 15:43	
EPA 8260	Vinyl chloride	0.49J	ug/L	1.0	02/03/23 15:43	
40257729012	20032-SUMP 2					
EPA 8260	cis-1,2-Dichloroethene	17.5	ug/L	1.0	02/03/23 16:04	
EPA 8260	Trichloroethene	31.6	ug/L	1.0	02/03/23 16:04	
40257729013	20032-DUP 1					
EPA 8260	cis-1,2-Dichloroethene	11900	ug/L	125	02/03/23 17:26	
EPA 8260	trans-1,2-Dichloroethene	501	ug/L	125	02/03/23 17:26	
EPA 8260	Trichloroethene	276	ug/L	125	02/03/23 17:26	
EPA 8260	Vinyl chloride	48200	ug/L	250	02/06/23 10:54	pH
40257729014	20032-DUP 2					
EPA 8260	1,1-Dichloroethane	8.3	ug/L	1.0	02/06/23 09:52	
EPA 8260	cis-1,2-Dichloroethene	0.53J	ug/L	1.0	02/06/23 09:52	
EPA 8260	trans-1,2-Dichloroethene	1.6	ug/L	1.0	02/06/23 09:52	
EPA 8260	Vinyl chloride	2.1	ug/L	1.0	02/06/23 09:52	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

Sample: 20032-MW1 **Lab ID: 40257729001** Collected: 01/31/23 13:15 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	33.3	ug/L	5.6	0.39	1		02/09/23 09:30	74-84-0	
Ethene	1170	ug/L	50.0	2.5	10		02/09/23 12:03	74-85-1	
Methane	1760	ug/L	28.0	5.8	10		02/09/23 12:03	74-82-8	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		02/06/23 10:13	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		02/06/23 10:13	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		02/06/23 10:13	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		02/06/23 10:13	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		02/06/23 10:13	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		02/06/23 10:13	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		02/06/23 10:13	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		02/06/23 10:13	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		02/06/23 10:13	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		02/06/23 10:13	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		02/06/23 10:13	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		02/06/23 10:13	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		02/06/23 10:13	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		02/06/23 10:13	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/06/23 10:13	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/06/23 10:13	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		02/06/23 10:13	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		02/06/23 10:13	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		02/06/23 10:13	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		02/06/23 10:13	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		02/06/23 10:13	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		02/06/23 10:13	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		02/06/23 10:13	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		02/06/23 10:13	75-71-8	
1,1-Dichloroethane	8.2	ug/L	1.0	0.30	1		02/06/23 10:13	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		02/06/23 10:13	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		02/06/23 10:13	75-35-4	
cis-1,2-Dichloroethene	1.1	ug/L	1.0	0.47	1		02/06/23 10:13	156-59-2	
trans-1,2-Dichloroethene	3.2	ug/L	1.0	0.53	1		02/06/23 10:13	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		02/06/23 10:13	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		02/06/23 10:13	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		02/06/23 10:13	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		02/06/23 10:13	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		02/06/23 10:13	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		02/06/23 10:13	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		02/06/23 10:13	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		02/06/23 10:13	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		02/06/23 10:13	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		02/06/23 10:13	98-82-8	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

Sample: 20032-MW1 **Lab ID: 40257729001** Collected: 01/31/23 13:15 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		02/06/23 10:13	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		02/06/23 10:13	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		02/06/23 10:13	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		02/06/23 10:13	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		02/06/23 10:13	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		02/06/23 10:13	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		02/06/23 10:13	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		02/06/23 10:13	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		02/06/23 10:13	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		02/06/23 10:13	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		02/06/23 10:13	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		02/06/23 10:13	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		02/06/23 10:13	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		02/06/23 10:13	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		02/06/23 10:13	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		02/06/23 10:13	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		02/06/23 10:13	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		02/06/23 10:13	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		02/06/23 10:13	108-67-8	
Vinyl chloride	3.3	ug/L	1.0	0.17	1		02/06/23 10:13	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		02/06/23 10:13	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		02/06/23 10:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		02/06/23 10:13	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		02/06/23 10:13	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		02/06/23 10:13	2037-26-5	
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Green Bay									
Total Organic Carbon	514	mg/L	30.0	8.3	60		02/07/23 12:29	7440-44-0	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

Sample: 20032-MW3 **Lab ID: 40257729002** Collected: 01/31/23 13:50 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<0.39	ug/L	5.6	0.39	1		02/09/23 12:59	74-84-0	
Ethene	<0.25	ug/L	5.0	0.25	1		02/09/23 12:59	74-85-1	
Methane	2.3J	ug/L	2.8	0.58	1		02/09/23 12:59	74-82-8	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		02/03/23 15:02	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		02/03/23 15:02	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		02/03/23 15:02	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		02/03/23 15:02	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		02/03/23 15:02	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		02/03/23 15:02	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		02/03/23 15:02	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		02/03/23 15:02	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		02/03/23 15:02	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		02/03/23 15:02	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		02/03/23 15:02	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		02/03/23 15:02	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		02/03/23 15:02	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		02/03/23 15:02	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/03/23 15:02	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/03/23 15:02	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		02/03/23 15:02	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		02/03/23 15:02	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		02/03/23 15:02	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		02/03/23 15:02	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		02/03/23 15:02	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		02/03/23 15:02	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		02/03/23 15:02	106-46-7	
Dichlorodifluoromethane	5.9	ug/L	5.0	0.46	1		02/03/23 15:02	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		02/03/23 15:02	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		02/03/23 15:02	107-06-2	
1,1-Dichloroethene	1.6	ug/L	1.0	0.58	1		02/03/23 15:02	75-35-4	
cis-1,2-Dichloroethene	63.7	ug/L	1.0	0.47	1		02/03/23 15:02	156-59-2	
trans-1,2-Dichloroethene	2.2	ug/L	1.0	0.53	1		02/03/23 15:02	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		02/03/23 15:02	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		02/03/23 15:02	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		02/03/23 15:02	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		02/03/23 15:02	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		02/03/23 15:02	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		02/03/23 15:02	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		02/03/23 15:02	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		02/03/23 15:02	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		02/03/23 15:02	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		02/03/23 15:02	98-82-8	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

Sample: 20032-MW3 **Lab ID: 40257729002** Collected: 01/31/23 13:50 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		02/03/23 15:02	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		02/03/23 15:02	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		02/03/23 15:02	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		02/03/23 15:02	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		02/03/23 15:02	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		02/03/23 15:02	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		02/03/23 15:02	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		02/03/23 15:02	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		02/03/23 15:02	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		02/03/23 15:02	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		02/03/23 15:02	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		02/03/23 15:02	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		02/03/23 15:02	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		02/03/23 15:02	79-00-5	
Trichloroethene	39.8	ug/L	1.0	0.32	1		02/03/23 15:02	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		02/03/23 15:02	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		02/03/23 15:02	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		02/03/23 15:02	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		02/03/23 15:02	108-67-8	
Vinyl chloride	5.2	ug/L	1.0	0.17	1		02/03/23 15:02	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		02/03/23 15:02	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		02/03/23 15:02	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/03/23 15:02	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		02/03/23 15:02	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		02/03/23 15:02	2037-26-5	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

Sample: 20032-MW8 **Lab ID: 40257729003** Collected: 01/31/23 13:40 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	3.4J	ug/L	5.6	0.39	1		02/09/23 09:45	74-84-0	pH
Ethene	2.2J	ug/L	5.0	0.25	1		02/09/23 09:45	74-85-1	pH
Methane	42.2	ug/L	2.8	0.58	1		02/09/23 09:45	74-82-8	pH
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<1.5	ug/L	5.0	1.5	5		02/03/23 17:37	71-43-2	
Bromobenzene	<1.8	ug/L	5.0	1.8	5		02/03/23 17:37	108-86-1	
Bromochloromethane	<1.8	ug/L	25.0	1.8	5		02/03/23 17:37	74-97-5	
Bromodichloromethane	<2.1	ug/L	5.0	2.1	5		02/03/23 17:37	75-27-4	
Bromoform	<19.0	ug/L	25.0	19.0	5		02/03/23 17:37	75-25-2	
Bromomethane	<6.0	ug/L	25.0	6.0	5		02/03/23 17:37	74-83-9	
n-Butylbenzene	<4.3	ug/L	5.0	4.3	5		02/03/23 17:37	104-51-8	
sec-Butylbenzene	<2.1	ug/L	5.0	2.1	5		02/03/23 17:37	135-98-8	
tert-Butylbenzene	<2.9	ug/L	5.0	2.9	5		02/03/23 17:37	98-06-6	
Carbon tetrachloride	<1.8	ug/L	5.0	1.8	5		02/03/23 17:37	56-23-5	
Chlorobenzene	<4.3	ug/L	5.0	4.3	5		02/03/23 17:37	108-90-7	
Chloroethane	<6.9	ug/L	25.0	6.9	5		02/03/23 17:37	75-00-3	
Chloroform	<5.9	ug/L	25.0	5.9	5		02/03/23 17:37	67-66-3	
Chloromethane	<8.2	ug/L	25.0	8.2	5		02/03/23 17:37	74-87-3	
2-Chlorotoluene	<4.4	ug/L	25.0	4.4	5		02/03/23 17:37	95-49-8	
4-Chlorotoluene	<4.5	ug/L	25.0	4.5	5		02/03/23 17:37	106-43-4	
1,2-Dibromo-3-chloropropane	<11.8	ug/L	25.0	11.8	5		02/03/23 17:37	96-12-8	
Dibromochloromethane	<13.2	ug/L	25.0	13.2	5		02/03/23 17:37	124-48-1	
1,2-Dibromoethane (EDB)	<1.5	ug/L	5.0	1.5	5		02/03/23 17:37	106-93-4	
Dibromomethane	<5.0	ug/L	25.0	5.0	5		02/03/23 17:37	74-95-3	
1,2-Dichlorobenzene	<1.6	ug/L	5.0	1.6	5		02/03/23 17:37	95-50-1	
1,3-Dichlorobenzene	<1.8	ug/L	5.0	1.8	5		02/03/23 17:37	541-73-1	
1,4-Dichlorobenzene	<4.5	ug/L	5.0	4.5	5		02/03/23 17:37	106-46-7	
Dichlorodifluoromethane	<2.3	ug/L	25.0	2.3	5		02/03/23 17:37	75-71-8	
1,1-Dichloroethane	<1.5	ug/L	5.0	1.5	5		02/03/23 17:37	75-34-3	
1,2-Dichloroethane	<1.5	ug/L	5.0	1.5	5		02/03/23 17:37	107-06-2	
1,1-Dichloroethene	<2.9	ug/L	5.0	2.9	5		02/03/23 17:37	75-35-4	
cis-1,2-Dichloroethene	377	ug/L	5.0	2.4	5		02/03/23 17:37	156-59-2	
trans-1,2-Dichloroethene	57.6	ug/L	5.0	2.6	5		02/03/23 17:37	156-60-5	
1,2-Dichloropropane	<2.2	ug/L	5.0	2.2	5		02/03/23 17:37	78-87-5	
1,3-Dichloropropane	<1.5	ug/L	5.0	1.5	5		02/03/23 17:37	142-28-9	
2,2-Dichloropropane	<20.9	ug/L	25.0	20.9	5		02/03/23 17:37	594-20-7	
1,1-Dichloropropene	<2.1	ug/L	5.0	2.1	5		02/03/23 17:37	563-58-6	
cis-1,3-Dichloropropene	<1.8	ug/L	5.0	1.8	5		02/03/23 17:37	10061-01-5	
trans-1,3-Dichloropropene	<17.3	ug/L	25.0	17.3	5		02/03/23 17:37	10061-02-6	
Diisopropyl ether	<5.5	ug/L	25.0	5.5	5		02/03/23 17:37	108-20-3	
Ethylbenzene	<1.6	ug/L	5.0	1.6	5		02/03/23 17:37	100-41-4	
Hexachloro-1,3-butadiene	<13.7	ug/L	25.0	13.7	5		02/03/23 17:37	87-68-3	
Isopropylbenzene (Cumene)	<5.0	ug/L	25.0	5.0	5		02/03/23 17:37	98-82-8	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

Sample: 20032-MW8 **Lab ID: 40257729003** Collected: 01/31/23 13:40 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
p-Isopropyltoluene	<5.2	ug/L	25.0	5.2	5		02/03/23 17:37	99-87-6	
Methylene Chloride	<1.6	ug/L	25.0	1.6	5		02/03/23 17:37	75-09-2	
Methyl-tert-butyl ether	<5.6	ug/L	25.0	5.6	5		02/03/23 17:37	1634-04-4	
Naphthalene	<5.6	ug/L	25.0	5.6	5		02/03/23 17:37	91-20-3	
n-Propylbenzene	<1.7	ug/L	5.0	1.7	5		02/03/23 17:37	103-65-1	
Styrene	<1.8	ug/L	5.0	1.8	5		02/03/23 17:37	100-42-5	
1,1,1,2-Tetrachloroethane	<1.8	ug/L	5.0	1.8	5		02/03/23 17:37	630-20-6	
1,1,2,2-Tetrachloroethane	<1.9	ug/L	5.0	1.9	5		02/03/23 17:37	79-34-5	
Tetrachloroethene	<2.0	ug/L	5.0	2.0	5		02/03/23 17:37	127-18-4	
Toluene	<1.4	ug/L	5.0	1.4	5		02/03/23 17:37	108-88-3	
1,2,3-Trichlorobenzene	<5.1	ug/L	25.0	5.1	5		02/03/23 17:37	87-61-6	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		02/03/23 17:37	120-82-1	
1,1,1-Trichloroethane	<1.5	ug/L	5.0	1.5	5		02/03/23 17:37	71-55-6	
1,1,2-Trichloroethane	<1.7	ug/L	25.0	1.7	5		02/03/23 17:37	79-00-5	
Trichloroethene	23.1	ug/L	5.0	1.6	5		02/03/23 17:37	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	5.0	2.1	5		02/03/23 17:37	75-69-4	
1,2,3-Trichloropropane	<2.8	ug/L	25.0	2.8	5		02/03/23 17:37	96-18-4	
1,2,4-Trimethylbenzene	<2.2	ug/L	5.0	2.2	5		02/03/23 17:37	95-63-6	
1,3,5-Trimethylbenzene	<1.8	ug/L	5.0	1.8	5		02/03/23 17:37	108-67-8	
Vinyl chloride	98.3	ug/L	5.0	0.87	5		02/03/23 17:37	75-01-4	
m&p-Xylene	<3.5	ug/L	10.0	3.5	5		02/03/23 17:37	179601-23-1	
o-Xylene	<1.7	ug/L	5.0	1.7	5		02/03/23 17:37	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		5		02/03/23 17:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		5		02/03/23 17:37	2199-69-1	
Toluene-d8 (S)	105	%	70-130		5		02/03/23 17:37	2037-26-5	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

Sample: 20032-MW14 **Lab ID: 40257729004** Collected: 01/31/23 11:35 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	145	ug/L	5.6	0.39	1		02/09/23 09:51	74-84-0	pH
Ethene	5520	ug/L	125	6.3	25		02/09/23 14:22	74-85-1	pH
Methane	957	ug/L	28.0	5.8	10		02/09/23 13:12	74-82-8	pH
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<36.9	ug/L	125	36.9	125		02/03/23 17:18	71-43-2	
Bromobenzene	<45.1	ug/L	125	45.1	125		02/03/23 17:18	108-86-1	
Bromochloromethane	<44.7	ug/L	625	44.7	125		02/03/23 17:18	74-97-5	
Bromodichloromethane	<51.9	ug/L	125	51.9	125		02/03/23 17:18	75-27-4	
Bromoform	<475	ug/L	625	475	125		02/03/23 17:18	75-25-2	
Bromomethane	<149	ug/L	625	149	125		02/03/23 17:18	74-83-9	
n-Butylbenzene	<107	ug/L	125	107	125		02/03/23 17:18	104-51-8	
sec-Butylbenzene	<53.0	ug/L	125	53.0	125		02/03/23 17:18	135-98-8	
tert-Butylbenzene	<73.3	ug/L	125	73.3	125		02/03/23 17:18	98-06-6	
Carbon tetrachloride	<46.2	ug/L	125	46.2	125		02/03/23 17:18	56-23-5	
Chlorobenzene	<107	ug/L	125	107	125		02/03/23 17:18	108-90-7	
Chloroethane	<172	ug/L	625	172	125		02/03/23 17:18	75-00-3	
Chloroform	<148	ug/L	625	148	125		02/03/23 17:18	67-66-3	
Chloromethane	<204	ug/L	625	204	125		02/03/23 17:18	74-87-3	
2-Chlorotoluene	<111	ug/L	625	111	125		02/03/23 17:18	95-49-8	
4-Chlorotoluene	<112	ug/L	625	112	125		02/03/23 17:18	106-43-4	
1,2-Dibromo-3-chloropropane	<296	ug/L	625	296	125		02/03/23 17:18	96-12-8	
Dibromochloromethane	<330	ug/L	625	330	125		02/03/23 17:18	124-48-1	
1,2-Dibromoethane (EDB)	<38.6	ug/L	125	38.6	125		02/03/23 17:18	106-93-4	
Dibromomethane	<124	ug/L	625	124	125		02/03/23 17:18	74-95-3	
1,2-Dichlorobenzene	<40.7	ug/L	125	40.7	125		02/03/23 17:18	95-50-1	
1,3-Dichlorobenzene	<43.9	ug/L	125	43.9	125		02/03/23 17:18	541-73-1	
1,4-Dichlorobenzene	<112	ug/L	125	112	125		02/03/23 17:18	106-46-7	
Dichlorodifluoromethane	<56.9	ug/L	625	56.9	125		02/03/23 17:18	75-71-8	
1,1-Dichloroethane	<37.0	ug/L	125	37.0	125		02/03/23 17:18	75-34-3	
1,2-Dichloroethane	<36.4	ug/L	125	36.4	125		02/03/23 17:18	107-06-2	
1,1-Dichloroethene	<72.8	ug/L	125	72.8	125		02/03/23 17:18	75-35-4	
cis-1,2-Dichloroethene	9760	ug/L	125	58.9	125		02/03/23 17:18	156-59-2	
trans-1,2-Dichloroethene	513	ug/L	125	66.0	125		02/03/23 17:18	156-60-5	
1,2-Dichloropropane	<56.0	ug/L	125	56.0	125		02/03/23 17:18	78-87-5	
1,3-Dichloropropane	<38.1	ug/L	125	38.1	125		02/03/23 17:18	142-28-9	
2,2-Dichloropropane	<522	ug/L	625	522	125		02/03/23 17:18	594-20-7	
1,1-Dichloropropene	<51.3	ug/L	125	51.3	125		02/03/23 17:18	563-58-6	
cis-1,3-Dichloropropene	<44.8	ug/L	125	44.8	125		02/03/23 17:18	10061-01-5	
trans-1,3-Dichloropropene	<433	ug/L	625	433	125		02/03/23 17:18	10061-02-6	
Diisopropyl ether	<138	ug/L	625	138	125		02/03/23 17:18	108-20-3	
Ethylbenzene	<40.6	ug/L	125	40.6	125		02/03/23 17:18	100-41-4	
Hexachloro-1,3-butadiene	<342	ug/L	625	342	125		02/03/23 17:18	87-68-3	
Isopropylbenzene (Cumene)	<125	ug/L	625	125	125		02/03/23 17:18	98-82-8	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

Sample: 20032-MW14 **Lab ID: 40257729004** Collected: 01/31/23 11:35 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
p-Isopropyltoluene	<130	ug/L	625	130	125		02/03/23 17:18	99-87-6	
Methylene Chloride	<39.9	ug/L	625	39.9	125		02/03/23 17:18	75-09-2	
Methyl-tert-butyl ether	<141	ug/L	625	141	125		02/03/23 17:18	1634-04-4	
Naphthalene	<141	ug/L	625	141	125		02/03/23 17:18	91-20-3	
n-Propylbenzene	<43.2	ug/L	125	43.2	125		02/03/23 17:18	103-65-1	
Styrene	<44.5	ug/L	125	44.5	125		02/03/23 17:18	100-42-5	
1,1,1,2-Tetrachloroethane	<44.4	ug/L	125	44.4	125		02/03/23 17:18	630-20-6	
1,1,2,2-Tetrachloroethane	<47.2	ug/L	125	47.2	125		02/03/23 17:18	79-34-5	
Tetrachloroethene	<51.1	ug/L	125	51.1	125		02/03/23 17:18	127-18-4	
Toluene	<36.0	ug/L	125	36.0	125		02/03/23 17:18	108-88-3	
1,2,3-Trichlorobenzene	<127	ug/L	625	127	125		02/03/23 17:18	87-61-6	
1,2,4-Trichlorobenzene	<119	ug/L	625	119	125		02/03/23 17:18	120-82-1	
1,1,1-Trichloroethane	<37.8	ug/L	125	37.8	125		02/03/23 17:18	71-55-6	
1,1,2-Trichloroethane	<43.1	ug/L	625	43.1	125		02/03/23 17:18	79-00-5	
Trichloroethene	58.5J	ug/L	125	40.0	125		02/03/23 17:18	79-01-6	
Trichlorofluoromethane	<52.3	ug/L	125	52.3	125		02/03/23 17:18	75-69-4	
1,2,3-Trichloropropane	<69.4	ug/L	625	69.4	125		02/03/23 17:18	96-18-4	
1,2,4-Trimethylbenzene	<56.1	ug/L	125	56.1	125		02/03/23 17:18	95-63-6	
1,3,5-Trimethylbenzene	<44.7	ug/L	125	44.7	125		02/03/23 17:18	108-67-8	
Vinyl chloride	41500	ug/L	400	69.8	400		02/06/23 10:53	75-01-4	pH
m&p-Xylene	<87.5	ug/L	250	87.5	125		02/03/23 17:18	179601-23-1	
o-Xylene	<43.5	ug/L	125	43.5	125		02/03/23 17:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		125		02/03/23 17:18	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		125		02/03/23 17:18	2199-69-1	
Toluene-d8 (S)	105	%	70-130		125		02/03/23 17:18	2037-26-5	pH

5310C TOC

Analytical Method: SM 5310C
Pace Analytical Services - Green Bay

Total Organic Carbon	2600	mg/L	500	138	1000		02/07/23 12:45	7440-44-0	
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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

Sample: 20032-MW15 Lab ID: 40257729005 Collected: 01/31/23 12:06 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	29.1	ug/L	5.6	0.39	1		02/09/23 09:59	74-84-0	
Ethene	31.3	ug/L	5.0	0.25	1		02/09/23 09:59	74-85-1	
Methane	554	ug/L	11.2	2.3	4		02/09/23 13:19	74-82-8	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<1.5	ug/L	5.0	1.5	5		02/03/23 18:28	71-43-2	
Bromobenzene	<1.8	ug/L	5.0	1.8	5		02/03/23 18:28	108-86-1	
Bromochloromethane	<1.8	ug/L	25.0	1.8	5		02/03/23 18:28	74-97-5	
Bromodichloromethane	<2.1	ug/L	5.0	2.1	5		02/03/23 18:28	75-27-4	
Bromoform	<19.0	ug/L	25.0	19.0	5		02/03/23 18:28	75-25-2	
Bromomethane	<6.0	ug/L	25.0	6.0	5		02/03/23 18:28	74-83-9	
n-Butylbenzene	<4.3	ug/L	5.0	4.3	5		02/03/23 18:28	104-51-8	
sec-Butylbenzene	<2.1	ug/L	5.0	2.1	5		02/03/23 18:28	135-98-8	
tert-Butylbenzene	<2.9	ug/L	5.0	2.9	5		02/03/23 18:28	98-06-6	
Carbon tetrachloride	<1.8	ug/L	5.0	1.8	5		02/03/23 18:28	56-23-5	
Chlorobenzene	<4.3	ug/L	5.0	4.3	5		02/03/23 18:28	108-90-7	
Chloroethane	<6.9	ug/L	25.0	6.9	5		02/03/23 18:28	75-00-3	
Chloroform	<5.9	ug/L	25.0	5.9	5		02/03/23 18:28	67-66-3	
Chloromethane	<8.2	ug/L	25.0	8.2	5		02/03/23 18:28	74-87-3	
2-Chlorotoluene	<4.4	ug/L	25.0	4.4	5		02/03/23 18:28	95-49-8	
4-Chlorotoluene	<4.5	ug/L	25.0	4.5	5		02/03/23 18:28	106-43-4	
1,2-Dibromo-3-chloropropane	<11.8	ug/L	25.0	11.8	5		02/03/23 18:28	96-12-8	
Dibromochloromethane	<13.2	ug/L	25.0	13.2	5		02/03/23 18:28	124-48-1	
1,2-Dibromoethane (EDB)	<1.5	ug/L	5.0	1.5	5		02/03/23 18:28	106-93-4	
Dibromomethane	<5.0	ug/L	25.0	5.0	5		02/03/23 18:28	74-95-3	
1,2-Dichlorobenzene	<1.6	ug/L	5.0	1.6	5		02/03/23 18:28	95-50-1	
1,3-Dichlorobenzene	<1.8	ug/L	5.0	1.8	5		02/03/23 18:28	541-73-1	
1,4-Dichlorobenzene	<4.5	ug/L	5.0	4.5	5		02/03/23 18:28	106-46-7	
Dichlorodifluoromethane	2.8J	ug/L	25.0	2.3	5		02/03/23 18:28	75-71-8	
1,1-Dichloroethane	<1.5	ug/L	5.0	1.5	5		02/03/23 18:28	75-34-3	
1,2-Dichloroethane	<1.5	ug/L	5.0	1.5	5		02/03/23 18:28	107-06-2	
1,1-Dichloroethene	11.6	ug/L	5.0	2.9	5		02/03/23 18:28	75-35-4	
cis-1,2-Dichloroethene	520	ug/L	5.0	2.4	5		02/03/23 18:28	156-59-2	
trans-1,2-Dichloroethene	3.9J	ug/L	5.0	2.6	5		02/03/23 18:28	156-60-5	
1,2-Dichloropropane	<2.2	ug/L	5.0	2.2	5		02/03/23 18:28	78-87-5	
1,3-Dichloropropane	<1.5	ug/L	5.0	1.5	5		02/03/23 18:28	142-28-9	
2,2-Dichloropropane	<20.9	ug/L	25.0	20.9	5		02/03/23 18:28	594-20-7	
1,1-Dichloropropene	<2.1	ug/L	5.0	2.1	5		02/03/23 18:28	563-58-6	
cis-1,3-Dichloropropene	<1.8	ug/L	5.0	1.8	5		02/03/23 18:28	10061-01-5	
trans-1,3-Dichloropropene	<17.3	ug/L	25.0	17.3	5		02/03/23 18:28	10061-02-6	
Diisopropyl ether	<5.5	ug/L	25.0	5.5	5		02/03/23 18:28	108-20-3	
Ethylbenzene	<1.6	ug/L	5.0	1.6	5		02/03/23 18:28	100-41-4	
Hexachloro-1,3-butadiene	<13.7	ug/L	25.0	13.7	5		02/03/23 18:28	87-68-3	
Isopropylbenzene (Cumene)	<5.0	ug/L	25.0	5.0	5		02/03/23 18:28	98-82-8	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

Sample: 20032-MW15 **Lab ID: 40257729005** Collected: 01/31/23 12:06 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
p-Isopropyltoluene	<5.2	ug/L	25.0	5.2	5		02/03/23 18:28	99-87-6	
Methylene Chloride	<1.6	ug/L	25.0	1.6	5		02/03/23 18:28	75-09-2	
Methyl-tert-butyl ether	<5.6	ug/L	25.0	5.6	5		02/03/23 18:28	1634-04-4	
Naphthalene	<5.6	ug/L	25.0	5.6	5		02/03/23 18:28	91-20-3	
n-Propylbenzene	<1.7	ug/L	5.0	1.7	5		02/03/23 18:28	103-65-1	
Styrene	<1.8	ug/L	5.0	1.8	5		02/03/23 18:28	100-42-5	
1,1,1,2-Tetrachloroethane	<1.8	ug/L	5.0	1.8	5		02/03/23 18:28	630-20-6	
1,1,2,2-Tetrachloroethane	<1.9	ug/L	5.0	1.9	5		02/03/23 18:28	79-34-5	
Tetrachloroethene	<2.0	ug/L	5.0	2.0	5		02/03/23 18:28	127-18-4	
Toluene	<1.4	ug/L	5.0	1.4	5		02/03/23 18:28	108-88-3	
1,2,3-Trichlorobenzene	<5.1	ug/L	25.0	5.1	5		02/03/23 18:28	87-61-6	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		02/03/23 18:28	120-82-1	
1,1,1-Trichloroethane	<1.5	ug/L	5.0	1.5	5		02/03/23 18:28	71-55-6	
1,1,2-Trichloroethane	<1.7	ug/L	25.0	1.7	5		02/03/23 18:28	79-00-5	
Trichloroethene	17.3	ug/L	5.0	1.6	5		02/03/23 18:28	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	5.0	2.1	5		02/03/23 18:28	75-69-4	
1,2,3-Trichloropropane	<2.8	ug/L	25.0	2.8	5		02/03/23 18:28	96-18-4	
1,2,4-Trimethylbenzene	<2.2	ug/L	5.0	2.2	5		02/03/23 18:28	95-63-6	
1,3,5-Trimethylbenzene	<1.8	ug/L	5.0	1.8	5		02/03/23 18:28	108-67-8	
Vinyl chloride	59.7	ug/L	5.0	0.87	5		02/03/23 18:28	75-01-4	
m&p-Xylene	<3.5	ug/L	10.0	3.5	5		02/03/23 18:28	179601-23-1	
o-Xylene	<1.7	ug/L	5.0	1.7	5		02/03/23 18:28	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		5		02/03/23 18:28	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		5		02/03/23 18:28	2199-69-1	
Toluene-d8 (S)	99	%	70-130		5		02/03/23 18:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

Sample: 20032-TW20 **Lab ID: 40257729006** Collected: 01/31/23 11:05 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	182	ug/L	5.6	0.39	1		02/09/23 10:06	74-84-0	
Ethene	919	ug/L	20.0	1.0	4		02/09/23 13:26	74-85-1	
Methane	126	ug/L	2.8	0.58	1		02/09/23 10:06	74-82-8	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<118	ug/L	400	118	400		02/03/23 17:06	71-43-2	
Bromobenzene	<144	ug/L	400	144	400		02/03/23 17:06	108-86-1	
Bromochloromethane	<143	ug/L	2000	143	400		02/03/23 17:06	74-97-5	
Bromodichloromethane	<166	ug/L	400	166	400		02/03/23 17:06	75-27-4	
Bromoform	<1520	ug/L	2000	1520	400		02/03/23 17:06	75-25-2	
Bromomethane	<477	ug/L	2000	477	400		02/03/23 17:06	74-83-9	
n-Butylbenzene	<343	ug/L	400	343	400		02/03/23 17:06	104-51-8	
sec-Butylbenzene	<170	ug/L	400	170	400		02/03/23 17:06	135-98-8	
tert-Butylbenzene	<234	ug/L	400	234	400		02/03/23 17:06	98-06-6	
Carbon tetrachloride	<148	ug/L	400	148	400		02/03/23 17:06	56-23-5	
Chlorobenzene	<342	ug/L	400	342	400		02/03/23 17:06	108-90-7	
Chloroethane	<552	ug/L	2000	552	400		02/03/23 17:06	75-00-3	
Chloroform	<473	ug/L	2000	473	400		02/03/23 17:06	67-66-3	
Chloromethane	<654	ug/L	2000	654	400		02/03/23 17:06	74-87-3	
2-Chlorotoluene	<356	ug/L	2000	356	400		02/03/23 17:06	95-49-8	
4-Chlorotoluene	<358	ug/L	2000	358	400		02/03/23 17:06	106-43-4	
1,2-Dibromo-3-chloropropane	<947	ug/L	2000	947	400		02/03/23 17:06	96-12-8	
Dibromochloromethane	<1060	ug/L	2000	1060	400		02/03/23 17:06	124-48-1	
1,2-Dibromoethane (EDB)	<124	ug/L	400	124	400		02/03/23 17:06	106-93-4	
Dibromomethane	<396	ug/L	2000	396	400		02/03/23 17:06	74-95-3	
1,2-Dichlorobenzene	<130	ug/L	400	130	400		02/03/23 17:06	95-50-1	
1,3-Dichlorobenzene	<140	ug/L	400	140	400		02/03/23 17:06	541-73-1	
1,4-Dichlorobenzene	<357	ug/L	400	357	400		02/03/23 17:06	106-46-7	
Dichlorodifluoromethane	<182	ug/L	2000	182	400		02/03/23 17:06	75-71-8	
1,1-Dichloroethane	<118	ug/L	400	118	400		02/03/23 17:06	75-34-3	
1,2-Dichloroethane	<117	ug/L	400	117	400		02/03/23 17:06	107-06-2	
1,1-Dichloroethene	838	ug/L	400	233	400		02/03/23 17:06	75-35-4	
cis-1,2-Dichloroethene	82100	ug/L	400	189	400		02/03/23 17:06	156-59-2	
trans-1,2-Dichloroethene	482	ug/L	400	211	400		02/03/23 17:06	156-60-5	
1,2-Dichloropropane	<179	ug/L	400	179	400		02/03/23 17:06	78-87-5	
1,3-Dichloropropane	<122	ug/L	400	122	400		02/03/23 17:06	142-28-9	
2,2-Dichloropropane	<1670	ug/L	2000	1670	400		02/03/23 17:06	594-20-7	
1,1-Dichloropropene	<164	ug/L	400	164	400		02/03/23 17:06	563-58-6	
cis-1,3-Dichloropropene	<143	ug/L	400	143	400		02/03/23 17:06	10061-01-5	
trans-1,3-Dichloropropene	<1380	ug/L	2000	1380	400		02/03/23 17:06	10061-02-6	
Diisopropyl ether	<440	ug/L	2000	440	400		02/03/23 17:06	108-20-3	
Ethylbenzene	<130	ug/L	400	130	400		02/03/23 17:06	100-41-4	
Hexachloro-1,3-butadiene	<1090	ug/L	2000	1090	400		02/03/23 17:06	87-68-3	
Isopropylbenzene (Cumene)	<400	ug/L	2000	400	400		02/03/23 17:06	98-82-8	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

Sample: 20032-TW20 **Lab ID: 40257729006** Collected: 01/31/23 11:05 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
p-Isopropyltoluene	<418	ug/L	2000	418	400		02/03/23 17:06	99-87-6	
Methylene Chloride	<128	ug/L	2000	128	400		02/03/23 17:06	75-09-2	
Methyl-tert-butyl ether	<452	ug/L	2000	452	400		02/03/23 17:06	1634-04-4	
Naphthalene	<452	ug/L	2000	452	400		02/03/23 17:06	91-20-3	
n-Propylbenzene	<138	ug/L	400	138	400		02/03/23 17:06	103-65-1	
Styrene	<143	ug/L	400	143	400		02/03/23 17:06	100-42-5	
1,1,1,2-Tetrachloroethane	<142	ug/L	400	142	400		02/03/23 17:06	630-20-6	
1,1,2,2-Tetrachloroethane	<151	ug/L	400	151	400		02/03/23 17:06	79-34-5	
Tetrachloroethene	<163	ug/L	400	163	400		02/03/23 17:06	127-18-4	
Toluene	<115	ug/L	400	115	400		02/03/23 17:06	108-88-3	
1,2,3-Trichlorobenzene	<407	ug/L	2000	407	400		02/03/23 17:06	87-61-6	
1,2,4-Trichlorobenzene	<380	ug/L	2000	380	400		02/03/23 17:06	120-82-1	
1,1,1-Trichloroethane	<121	ug/L	400	121	400		02/03/23 17:06	71-55-6	
1,1,2-Trichloroethane	<138	ug/L	2000	138	400		02/03/23 17:06	79-00-5	
Trichloroethene	251000	ug/L	1000	320	1000		02/06/23 11:15	79-01-6	
Trichlorofluoromethane	<167	ug/L	400	167	400		02/03/23 17:06	75-69-4	
1,2,3-Trichloropropane	<222	ug/L	2000	222	400		02/03/23 17:06	96-18-4	
1,2,4-Trimethylbenzene	<179	ug/L	400	179	400		02/03/23 17:06	95-63-6	
1,3,5-Trimethylbenzene	<143	ug/L	400	143	400		02/03/23 17:06	108-67-8	
Vinyl chloride	9360	ug/L	400	69.8	400		02/03/23 17:06	75-01-4	
m&p-Xylene	<280	ug/L	800	280	400		02/03/23 17:06	179601-23-1	
o-Xylene	<139	ug/L	400	139	400		02/03/23 17:06	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		400		02/03/23 17:06	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		400		02/03/23 17:06	2199-69-1	
Toluene-d8 (S)	99	%	70-130		400		02/03/23 17:06	2037-26-5	
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Green Bay									
Total Organic Carbon	1600	mg/L	500	138	1000		02/07/23 12:59	7440-44-0	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

Sample: 20032-TW21 **Lab ID: 40257729007** Collected: 01/31/23 14:03 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	19.5	ug/L	5.6	0.39	1		02/09/23 10:13	74-84-0	
Ethene	97.2	ug/L	5.0	0.25	1		02/09/23 10:13	74-85-1	
Methane	1390	ug/L	70.0	14.4	25		02/09/23 13:33	74-82-8	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<3.0	ug/L	10.0	3.0	10		02/06/23 10:33	71-43-2	
Bromobenzene	<3.6	ug/L	10.0	3.6	10		02/06/23 10:33	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		02/06/23 10:33	74-97-5	
Bromodichloromethane	<4.2	ug/L	10.0	4.2	10		02/06/23 10:33	75-27-4	
Bromoform	<38.0	ug/L	50.0	38.0	10		02/06/23 10:33	75-25-2	
Bromomethane	<11.9	ug/L	50.0	11.9	10		02/06/23 10:33	74-83-9	
n-Butylbenzene	<8.6	ug/L	10.0	8.6	10		02/06/23 10:33	104-51-8	
sec-Butylbenzene	<4.2	ug/L	10.0	4.2	10		02/06/23 10:33	135-98-8	
tert-Butylbenzene	<5.9	ug/L	10.0	5.9	10		02/06/23 10:33	98-06-6	
Carbon tetrachloride	<3.7	ug/L	10.0	3.7	10		02/06/23 10:33	56-23-5	
Chlorobenzene	<8.6	ug/L	10.0	8.6	10		02/06/23 10:33	108-90-7	
Chloroethane	<13.8	ug/L	50.0	13.8	10		02/06/23 10:33	75-00-3	
Chloroform	<11.8	ug/L	50.0	11.8	10		02/06/23 10:33	67-66-3	
Chloromethane	<16.4	ug/L	50.0	16.4	10		02/06/23 10:33	74-87-3	
2-Chlorotoluene	<8.9	ug/L	50.0	8.9	10		02/06/23 10:33	95-49-8	
4-Chlorotoluene	<8.9	ug/L	50.0	8.9	10		02/06/23 10:33	106-43-4	
1,2-Dibromo-3-chloropropane	<23.7	ug/L	50.0	23.7	10		02/06/23 10:33	96-12-8	
Dibromochloromethane	<26.4	ug/L	50.0	26.4	10		02/06/23 10:33	124-48-1	
1,2-Dibromoethane (EDB)	<3.1	ug/L	10.0	3.1	10		02/06/23 10:33	106-93-4	
Dibromomethane	<9.9	ug/L	50.0	9.9	10		02/06/23 10:33	74-95-3	
1,2-Dichlorobenzene	<3.3	ug/L	10.0	3.3	10		02/06/23 10:33	95-50-1	
1,3-Dichlorobenzene	<3.5	ug/L	10.0	3.5	10		02/06/23 10:33	541-73-1	
1,4-Dichlorobenzene	<8.9	ug/L	10.0	8.9	10		02/06/23 10:33	106-46-7	
Dichlorodifluoromethane	<4.6	ug/L	50.0	4.6	10		02/06/23 10:33	75-71-8	
1,1-Dichloroethane	<3.0	ug/L	10.0	3.0	10		02/06/23 10:33	75-34-3	
1,2-Dichloroethane	<2.9	ug/L	10.0	2.9	10		02/06/23 10:33	107-06-2	
1,1-Dichloroethene	<5.8	ug/L	10.0	5.8	10		02/06/23 10:33	75-35-4	
cis-1,2-Dichloroethene	421	ug/L	10.0	4.7	10		02/06/23 10:33	156-59-2	
trans-1,2-Dichloroethene	45.9	ug/L	10.0	5.3	10		02/06/23 10:33	156-60-5	
1,2-Dichloropropane	<4.5	ug/L	10.0	4.5	10		02/06/23 10:33	78-87-5	
1,3-Dichloropropane	<3.0	ug/L	10.0	3.0	10		02/06/23 10:33	142-28-9	
2,2-Dichloropropane	<41.8	ug/L	50.0	41.8	10		02/06/23 10:33	594-20-7	
1,1-Dichloropropene	<4.1	ug/L	10.0	4.1	10		02/06/23 10:33	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	10.0	3.6	10		02/06/23 10:33	10061-01-5	
trans-1,3-Dichloropropene	<34.6	ug/L	50.0	34.6	10		02/06/23 10:33	10061-02-6	
Diisopropyl ether	<11.0	ug/L	50.0	11.0	10		02/06/23 10:33	108-20-3	
Ethylbenzene	<3.3	ug/L	10.0	3.3	10		02/06/23 10:33	100-41-4	
Hexachloro-1,3-butadiene	<27.4	ug/L	50.0	27.4	10		02/06/23 10:33	87-68-3	
Isopropylbenzene (Cumene)	<10.0	ug/L	50.0	10.0	10		02/06/23 10:33	98-82-8	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

Sample: 20032-TW21 **Lab ID: 40257729007** Collected: 01/31/23 14:03 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
p-Isopropyltoluene	<10.4	ug/L	50.0	10.4	10		02/06/23 10:33	99-87-6	
Methylene Chloride	<3.2	ug/L	50.0	3.2	10		02/06/23 10:33	75-09-2	
Methyl-tert-butyl ether	<11.3	ug/L	50.0	11.3	10		02/06/23 10:33	1634-04-4	
Naphthalene	<11.3	ug/L	50.0	11.3	10		02/06/23 10:33	91-20-3	
n-Propylbenzene	<3.5	ug/L	10.0	3.5	10		02/06/23 10:33	103-65-1	
Styrene	<3.6	ug/L	10.0	3.6	10		02/06/23 10:33	100-42-5	
1,1,1,2-Tetrachloroethane	<3.6	ug/L	10.0	3.6	10		02/06/23 10:33	630-20-6	
1,1,2,2-Tetrachloroethane	<3.8	ug/L	10.0	3.8	10		02/06/23 10:33	79-34-5	
Tetrachloroethene	<4.1	ug/L	10.0	4.1	10		02/06/23 10:33	127-18-4	
Toluene	<2.9	ug/L	10.0	2.9	10		02/06/23 10:33	108-88-3	
1,2,3-Trichlorobenzene	<10.2	ug/L	50.0	10.2	10		02/06/23 10:33	87-61-6	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		02/06/23 10:33	120-82-1	
1,1,1-Trichloroethane	<3.0	ug/L	10.0	3.0	10		02/06/23 10:33	71-55-6	
1,1,2-Trichloroethane	<3.4	ug/L	50.0	3.4	10		02/06/23 10:33	79-00-5	
Trichloroethene	<3.2	ug/L	10.0	3.2	10		02/06/23 10:33	79-01-6	
Trichlorofluoromethane	<4.2	ug/L	10.0	4.2	10		02/06/23 10:33	75-69-4	
1,2,3-Trichloropropane	<5.6	ug/L	50.0	5.6	10		02/06/23 10:33	96-18-4	
1,2,4-Trimethylbenzene	<4.5	ug/L	10.0	4.5	10		02/06/23 10:33	95-63-6	
1,3,5-Trimethylbenzene	<3.6	ug/L	10.0	3.6	10		02/06/23 10:33	108-67-8	
Vinyl chloride	104	ug/L	10.0	1.7	10		02/06/23 10:33	75-01-4	
m&p-Xylene	<7.0	ug/L	20.0	7.0	10		02/06/23 10:33	179601-23-1	
o-Xylene	<3.5	ug/L	10.0	3.5	10		02/06/23 10:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		10		02/06/23 10:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		10		02/06/23 10:33	2199-69-1	
Toluene-d8 (S)	101	%	70-130		10		02/06/23 10:33	2037-26-5	

5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Green Bay									
Total Organic Carbon	983	mg/L	500	138	1000		02/07/23 13:12	7440-44-0	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

Sample: 20032-TW22 **Lab ID: 40257729008** Collected: 01/31/23 14:20 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	2.8J	ug/L	5.6	0.39	1		02/09/23 10:20	74-84-0	
Ethene	6.8	ug/L	5.0	0.25	1		02/09/23 10:20	74-85-1	
Methane	40.1	ug/L	2.8	0.58	1		02/09/23 10:20	74-82-8	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.59	ug/L	2.0	0.59	2		02/03/23 18:49	71-43-2	
Bromobenzene	<0.72	ug/L	2.0	0.72	2		02/03/23 18:49	108-86-1	
Bromochloromethane	<0.72	ug/L	10.0	0.72	2		02/03/23 18:49	74-97-5	
Bromodichloromethane	<0.83	ug/L	2.0	0.83	2		02/03/23 18:49	75-27-4	
Bromoform	<7.6	ug/L	10.0	7.6	2		02/03/23 18:49	75-25-2	
Bromomethane	<2.4	ug/L	10.0	2.4	2		02/03/23 18:49	74-83-9	
n-Butylbenzene	<1.7	ug/L	2.0	1.7	2		02/03/23 18:49	104-51-8	
sec-Butylbenzene	<0.85	ug/L	2.0	0.85	2		02/03/23 18:49	135-98-8	
tert-Butylbenzene	<1.2	ug/L	2.0	1.2	2		02/03/23 18:49	98-06-6	
Carbon tetrachloride	<0.74	ug/L	2.0	0.74	2		02/03/23 18:49	56-23-5	
Chlorobenzene	<1.7	ug/L	2.0	1.7	2		02/03/23 18:49	108-90-7	
Chloroethane	<2.8	ug/L	10.0	2.8	2		02/03/23 18:49	75-00-3	
Chloroform	<2.4	ug/L	10.0	2.4	2		02/03/23 18:49	67-66-3	
Chloromethane	<3.3	ug/L	10.0	3.3	2		02/03/23 18:49	74-87-3	
2-Chlorotoluene	<1.8	ug/L	10.0	1.8	2		02/03/23 18:49	95-49-8	
4-Chlorotoluene	<1.8	ug/L	10.0	1.8	2		02/03/23 18:49	106-43-4	
1,2-Dibromo-3-chloropropane	<4.7	ug/L	10.0	4.7	2		02/03/23 18:49	96-12-8	
Dibromochloromethane	<5.3	ug/L	10.0	5.3	2		02/03/23 18:49	124-48-1	
1,2-Dibromoethane (EDB)	<0.62	ug/L	2.0	0.62	2		02/03/23 18:49	106-93-4	
Dibromomethane	<2.0	ug/L	10.0	2.0	2		02/03/23 18:49	74-95-3	
1,2-Dichlorobenzene	<0.65	ug/L	2.0	0.65	2		02/03/23 18:49	95-50-1	
1,3-Dichlorobenzene	<0.70	ug/L	2.0	0.70	2		02/03/23 18:49	541-73-1	
1,4-Dichlorobenzene	<1.8	ug/L	2.0	1.8	2		02/03/23 18:49	106-46-7	
Dichlorodifluoromethane	2.4J	ug/L	10.0	0.91	2		02/03/23 18:49	75-71-8	
1,1-Dichloroethane	0.61J	ug/L	2.0	0.59	2		02/03/23 18:49	75-34-3	
1,2-Dichloroethane	<0.58	ug/L	2.0	0.58	2		02/03/23 18:49	107-06-2	
1,1-Dichloroethene	<1.2	ug/L	2.0	1.2	2		02/03/23 18:49	75-35-4	
cis-1,2-Dichloroethene	150	ug/L	2.0	0.94	2		02/03/23 18:49	156-59-2	
trans-1,2-Dichloroethene	15.2	ug/L	2.0	1.1	2		02/03/23 18:49	156-60-5	
1,2-Dichloropropane	<0.90	ug/L	2.0	0.90	2		02/03/23 18:49	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	2.0	0.61	2		02/03/23 18:49	142-28-9	
2,2-Dichloropropane	<8.4	ug/L	10.0	8.4	2		02/03/23 18:49	594-20-7	
1,1-Dichloropropene	<0.82	ug/L	2.0	0.82	2		02/03/23 18:49	563-58-6	
cis-1,3-Dichloropropene	<0.72	ug/L	2.0	0.72	2		02/03/23 18:49	10061-01-5	
trans-1,3-Dichloropropene	<6.9	ug/L	10.0	6.9	2		02/03/23 18:49	10061-02-6	
Diisopropyl ether	<2.2	ug/L	10.0	2.2	2		02/03/23 18:49	108-20-3	
Ethylbenzene	<0.65	ug/L	2.0	0.65	2		02/03/23 18:49	100-41-4	
Hexachloro-1,3-butadiene	<5.5	ug/L	10.0	5.5	2		02/03/23 18:49	87-68-3	
Isopropylbenzene (Cumene)	<2.0	ug/L	10.0	2.0	2		02/03/23 18:49	98-82-8	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

Sample: 20032-TW22 **Lab ID: 40257729008** Collected: 01/31/23 14:20 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
p-Isopropyltoluene	<2.1	ug/L	10.0	2.1	2		02/03/23 18:49	99-87-6	
Methylene Chloride	<0.64	ug/L	10.0	0.64	2		02/03/23 18:49	75-09-2	
Methyl-tert-butyl ether	<2.3	ug/L	10.0	2.3	2		02/03/23 18:49	1634-04-4	
Naphthalene	<2.3	ug/L	10.0	2.3	2		02/03/23 18:49	91-20-3	
n-Propylbenzene	<0.69	ug/L	2.0	0.69	2		02/03/23 18:49	103-65-1	
Styrene	<0.71	ug/L	2.0	0.71	2		02/03/23 18:49	100-42-5	
1,1,1,2-Tetrachloroethane	<0.71	ug/L	2.0	0.71	2		02/03/23 18:49	630-20-6	
1,1,2,2-Tetrachloroethane	<0.76	ug/L	2.0	0.76	2		02/03/23 18:49	79-34-5	
Tetrachloroethene	<0.82	ug/L	2.0	0.82	2		02/03/23 18:49	127-18-4	
Toluene	<0.58	ug/L	2.0	0.58	2		02/03/23 18:49	108-88-3	
1,2,3-Trichlorobenzene	<2.0	ug/L	10.0	2.0	2		02/03/23 18:49	87-61-6	
1,2,4-Trichlorobenzene	<1.9	ug/L	10.0	1.9	2		02/03/23 18:49	120-82-1	
1,1,1-Trichloroethane	<0.61	ug/L	2.0	0.61	2		02/03/23 18:49	71-55-6	
1,1,2-Trichloroethane	<0.69	ug/L	10.0	0.69	2		02/03/23 18:49	79-00-5	
Trichloroethene	3.1	ug/L	2.0	0.64	2		02/03/23 18:49	79-01-6	
Trichlorofluoromethane	<0.84	ug/L	2.0	0.84	2		02/03/23 18:49	75-69-4	
1,2,3-Trichloropropane	<1.1	ug/L	10.0	1.1	2		02/03/23 18:49	96-18-4	
1,2,4-Trimethylbenzene	<0.90	ug/L	2.0	0.90	2		02/03/23 18:49	95-63-6	
1,3,5-Trimethylbenzene	<0.71	ug/L	2.0	0.71	2		02/03/23 18:49	108-67-8	
Vinyl chloride	550	ug/L	2.0	0.35	2		02/03/23 18:49	75-01-4	
m&p-Xylene	<1.4	ug/L	4.0	1.4	2		02/03/23 18:49	179601-23-1	
o-Xylene	<0.70	ug/L	2.0	0.70	2		02/03/23 18:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		2		02/03/23 18:49	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		2		02/03/23 18:49	2199-69-1	
Toluene-d8 (S)	99	%	70-130		2		02/03/23 18:49	2037-26-5	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

Sample: 20032-TW23 Lab ID: 40257729009 Collected: 01/31/23 12:40 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	1.7J	ug/L	5.6	0.39	1		02/09/23 10:27	74-84-0	
Ethene	0.56J	ug/L	5.0	0.25	1		02/09/23 10:27	74-85-1	
Methane	25.0	ug/L	2.8	0.58	1		02/09/23 10:27	74-82-8	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		02/03/23 16:45	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		02/03/23 16:45	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		02/03/23 16:45	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		02/03/23 16:45	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		02/03/23 16:45	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		02/03/23 16:45	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		02/03/23 16:45	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		02/03/23 16:45	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		02/03/23 16:45	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		02/03/23 16:45	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		02/03/23 16:45	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		02/03/23 16:45	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		02/03/23 16:45	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		02/03/23 16:45	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/03/23 16:45	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/03/23 16:45	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		02/03/23 16:45	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		02/03/23 16:45	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		02/03/23 16:45	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		02/03/23 16:45	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		02/03/23 16:45	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		02/03/23 16:45	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		02/03/23 16:45	106-46-7	
Dichlorodifluoromethane	19.9	ug/L	5.0	0.46	1		02/03/23 16:45	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		02/03/23 16:45	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		02/03/23 16:45	107-06-2	
1,1-Dichloroethene	13.4	ug/L	1.0	0.58	1		02/03/23 16:45	75-35-4	
cis-1,2-Dichloroethene	197	ug/L	1.0	0.47	1		02/03/23 16:45	156-59-2	
trans-1,2-Dichloroethene	0.82J	ug/L	1.0	0.53	1		02/03/23 16:45	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		02/03/23 16:45	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		02/03/23 16:45	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		02/03/23 16:45	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		02/03/23 16:45	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		02/03/23 16:45	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		02/03/23 16:45	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		02/03/23 16:45	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		02/03/23 16:45	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		02/03/23 16:45	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		02/03/23 16:45	98-82-8	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

Sample: 20032-TW23 **Lab ID: 40257729009** Collected: 01/31/23 12:40 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		02/03/23 16:45	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		02/03/23 16:45	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		02/03/23 16:45	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		02/03/23 16:45	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		02/03/23 16:45	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		02/03/23 16:45	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		02/03/23 16:45	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		02/03/23 16:45	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		02/03/23 16:45	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		02/03/23 16:45	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		02/03/23 16:45	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		02/03/23 16:45	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		02/03/23 16:45	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		02/03/23 16:45	79-00-5	
Trichloroethene	72.9	ug/L	1.0	0.32	1		02/03/23 16:45	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		02/03/23 16:45	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		02/03/23 16:45	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		02/03/23 16:45	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		02/03/23 16:45	108-67-8	
Vinyl chloride	10.9	ug/L	1.0	0.17	1		02/03/23 16:45	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		02/03/23 16:45	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		02/03/23 16:45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/03/23 16:45	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		02/03/23 16:45	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		02/03/23 16:45	2037-26-5	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

Sample: 20032-TW24 Lab ID: 40257729010 Collected: 01/31/23 12:20 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay							
Ethane	9.5	ug/L	5.6	0.39	1		02/09/23 10:34	74-84-0	
Ethene	158	ug/L	5.0	0.25	1		02/09/23 10:34	74-85-1	
Methane	38.6	ug/L	2.8	0.58	1		02/09/23 10:34	74-82-8	
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
Benzene	<7.4	ug/L	25.0	7.4	25		02/03/23 17:47	71-43-2	
Bromobenzene	<9.0	ug/L	25.0	9.0	25		02/03/23 17:47	108-86-1	
Bromochloromethane	<8.9	ug/L	125	8.9	25		02/03/23 17:47	74-97-5	
Bromodichloromethane	<10.4	ug/L	25.0	10.4	25		02/03/23 17:47	75-27-4	
Bromoform	<95.0	ug/L	125	95.0	25		02/03/23 17:47	75-25-2	
Bromomethane	<29.8	ug/L	125	29.8	25		02/03/23 17:47	74-83-9	
n-Butylbenzene	<21.4	ug/L	25.0	21.4	25		02/03/23 17:47	104-51-8	
sec-Butylbenzene	<10.6	ug/L	25.0	10.6	25		02/03/23 17:47	135-98-8	
tert-Butylbenzene	<14.7	ug/L	25.0	14.7	25		02/03/23 17:47	98-06-6	
Carbon tetrachloride	<9.2	ug/L	25.0	9.2	25		02/03/23 17:47	56-23-5	
Chlorobenzene	<21.4	ug/L	25.0	21.4	25		02/03/23 17:47	108-90-7	
Chloroethane	<34.5	ug/L	125	34.5	25		02/03/23 17:47	75-00-3	
Chloroform	<29.6	ug/L	125	29.6	25		02/03/23 17:47	67-66-3	
Chloromethane	<40.9	ug/L	125	40.9	25		02/03/23 17:47	74-87-3	
2-Chlorotoluene	<22.2	ug/L	125	22.2	25		02/03/23 17:47	95-49-8	
4-Chlorotoluene	<22.4	ug/L	125	22.4	25		02/03/23 17:47	106-43-4	
1,2-Dibromo-3-chloropropane	<59.2	ug/L	125	59.2	25		02/03/23 17:47	96-12-8	
Dibromochloromethane	<66.1	ug/L	125	66.1	25		02/03/23 17:47	124-48-1	
1,2-Dibromoethane (EDB)	<7.7	ug/L	25.0	7.7	25		02/03/23 17:47	106-93-4	
Dibromomethane	<24.8	ug/L	125	24.8	25		02/03/23 17:47	74-95-3	
1,2-Dichlorobenzene	<8.1	ug/L	25.0	8.1	25		02/03/23 17:47	95-50-1	
1,3-Dichlorobenzene	<8.8	ug/L	25.0	8.8	25		02/03/23 17:47	541-73-1	
1,4-Dichlorobenzene	<22.3	ug/L	25.0	22.3	25		02/03/23 17:47	106-46-7	
Dichlorodifluoromethane	75.2J	ug/L	125	11.4	25		02/03/23 17:47	75-71-8	
1,1-Dichloroethane	<7.4	ug/L	25.0	7.4	25		02/03/23 17:47	75-34-3	
1,2-Dichloroethane	<7.3	ug/L	25.0	7.3	25		02/03/23 17:47	107-06-2	
1,1-Dichloroethene	76.7	ug/L	25.0	14.6	25		02/03/23 17:47	75-35-4	
cis-1,2-Dichloroethene	1750	ug/L	25.0	11.8	25		02/03/23 17:47	156-59-2	
trans-1,2-Dichloroethene	66.9	ug/L	25.0	13.2	25		02/03/23 17:47	156-60-5	
1,2-Dichloropropane	<11.2	ug/L	25.0	11.2	25		02/03/23 17:47	78-87-5	
1,3-Dichloropropane	<7.6	ug/L	25.0	7.6	25		02/03/23 17:47	142-28-9	
2,2-Dichloropropane	<104	ug/L	125	104	25		02/03/23 17:47	594-20-7	
1,1-Dichloropropene	<10.3	ug/L	25.0	10.3	25		02/03/23 17:47	563-58-6	
cis-1,3-Dichloropropene	<9.0	ug/L	25.0	9.0	25		02/03/23 17:47	10061-01-5	
trans-1,3-Dichloropropene	<86.6	ug/L	125	86.6	25		02/03/23 17:47	10061-02-6	
Diisopropyl ether	<27.5	ug/L	125	27.5	25		02/03/23 17:47	108-20-3	
Ethylbenzene	<8.1	ug/L	25.0	8.1	25		02/03/23 17:47	100-41-4	
Hexachloro-1,3-butadiene	<68.4	ug/L	125	68.4	25		02/03/23 17:47	87-68-3	
Isopropylbenzene (Cumene)	<25.0	ug/L	125	25.0	25		02/03/23 17:47	98-82-8	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

Sample: 20032-TW24 **Lab ID: 40257729010** Collected: 01/31/23 12:20 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
p-Isopropyltoluene	<26.1	ug/L	125	26.1	25		02/03/23 17:47	99-87-6	
Methylene Chloride	<8.0	ug/L	125	8.0	25		02/03/23 17:47	75-09-2	
Methyl-tert-butyl ether	<28.2	ug/L	125	28.2	25		02/03/23 17:47	1634-04-4	
Naphthalene	<28.2	ug/L	125	28.2	25		02/03/23 17:47	91-20-3	
n-Propylbenzene	<8.6	ug/L	25.0	8.6	25		02/03/23 17:47	103-65-1	
Styrene	<8.9	ug/L	25.0	8.9	25		02/03/23 17:47	100-42-5	
1,1,1,2-Tetrachloroethane	<8.9	ug/L	25.0	8.9	25		02/03/23 17:47	630-20-6	
1,1,2,2-Tetrachloroethane	<9.4	ug/L	25.0	9.4	25		02/03/23 17:47	79-34-5	
Tetrachloroethene	<10.2	ug/L	25.0	10.2	25		02/03/23 17:47	127-18-4	
Toluene	<7.2	ug/L	25.0	7.2	25		02/03/23 17:47	108-88-3	
1,2,3-Trichlorobenzene	<25.5	ug/L	125	25.5	25		02/03/23 17:47	87-61-6	
1,2,4-Trichlorobenzene	<23.8	ug/L	125	23.8	25		02/03/23 17:47	120-82-1	
1,1,1-Trichloroethane	<7.6	ug/L	25.0	7.6	25		02/03/23 17:47	71-55-6	
1,1,2-Trichloroethane	<8.6	ug/L	125	8.6	25		02/03/23 17:47	79-00-5	
Trichloroethene	1380	ug/L	25.0	8.0	25		02/03/23 17:47	79-01-6	
Trichlorofluoromethane	<10.5	ug/L	25.0	10.5	25		02/03/23 17:47	75-69-4	
1,2,3-Trichloropropane	<13.9	ug/L	125	13.9	25		02/03/23 17:47	96-18-4	
1,2,4-Trimethylbenzene	<11.2	ug/L	25.0	11.2	25		02/03/23 17:47	95-63-6	
1,3,5-Trimethylbenzene	<8.9	ug/L	25.0	8.9	25		02/03/23 17:47	108-67-8	
Vinyl chloride	692	ug/L	25.0	4.4	25		02/03/23 17:47	75-01-4	
m&p-Xylene	<17.5	ug/L	50.0	17.5	25		02/03/23 17:47	179601-23-1	
o-Xylene	<8.7	ug/L	25.0	8.7	25		02/03/23 17:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		25		02/03/23 17:47	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		25		02/03/23 17:47	2199-69-1	
Toluene-d8 (S)	101	%	70-130		25		02/03/23 17:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

Sample: 20032-SUMP 1 **Lab ID: 40257729011** Collected: 01/31/23 10:30 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		02/03/23 15:43	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		02/03/23 15:43	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		02/03/23 15:43	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		02/03/23 15:43	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		02/03/23 15:43	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		02/03/23 15:43	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		02/03/23 15:43	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		02/03/23 15:43	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		02/03/23 15:43	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		02/03/23 15:43	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		02/03/23 15:43	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		02/03/23 15:43	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		02/03/23 15:43	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		02/03/23 15:43	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/03/23 15:43	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/03/23 15:43	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		02/03/23 15:43	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		02/03/23 15:43	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		02/03/23 15:43	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		02/03/23 15:43	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		02/03/23 15:43	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		02/03/23 15:43	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		02/03/23 15:43	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		02/03/23 15:43	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		02/03/23 15:43	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		02/03/23 15:43	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		02/03/23 15:43	75-35-4	
cis-1,2-Dichloroethene	8.2	ug/L	1.0	0.47	1		02/03/23 15:43	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		02/03/23 15:43	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		02/03/23 15:43	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		02/03/23 15:43	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		02/03/23 15:43	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		02/03/23 15:43	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		02/03/23 15:43	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		02/03/23 15:43	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		02/03/23 15:43	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		02/03/23 15:43	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		02/03/23 15:43	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		02/03/23 15:43	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		02/03/23 15:43	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		02/03/23 15:43	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		02/03/23 15:43	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		02/03/23 15:43	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		02/03/23 15:43	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		02/03/23 15:43	100-42-5	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

Sample: 20032-SUMP 1 **Lab ID: 40257729011** Collected: 01/31/23 10:30 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		02/03/23 15:43	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		02/03/23 15:43	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		02/03/23 15:43	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		02/03/23 15:43	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		02/03/23 15:43	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		02/03/23 15:43	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		02/03/23 15:43	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		02/03/23 15:43	79-00-5	
Trichloroethene	16.5	ug/L	1.0	0.32	1		02/03/23 15:43	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		02/03/23 15:43	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		02/03/23 15:43	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		02/03/23 15:43	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		02/03/23 15:43	108-67-8	
Vinyl chloride	0.49J	ug/L	1.0	0.17	1		02/03/23 15:43	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		02/03/23 15:43	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		02/03/23 15:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/03/23 15:43	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		02/03/23 15:43	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		02/03/23 15:43	2037-26-5	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

Sample: 20032-SUMP 2 Lab ID: 40257729012 Collected: 01/31/23 10:45 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		02/03/23 16:04	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		02/03/23 16:04	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		02/03/23 16:04	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		02/03/23 16:04	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		02/03/23 16:04	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		02/03/23 16:04	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		02/03/23 16:04	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		02/03/23 16:04	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		02/03/23 16:04	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		02/03/23 16:04	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		02/03/23 16:04	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		02/03/23 16:04	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		02/03/23 16:04	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		02/03/23 16:04	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/03/23 16:04	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/03/23 16:04	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		02/03/23 16:04	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		02/03/23 16:04	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		02/03/23 16:04	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		02/03/23 16:04	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		02/03/23 16:04	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		02/03/23 16:04	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		02/03/23 16:04	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		02/03/23 16:04	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		02/03/23 16:04	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		02/03/23 16:04	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		02/03/23 16:04	75-35-4	
cis-1,2-Dichloroethene	17.5	ug/L	1.0	0.47	1		02/03/23 16:04	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		02/03/23 16:04	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		02/03/23 16:04	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		02/03/23 16:04	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		02/03/23 16:04	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		02/03/23 16:04	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		02/03/23 16:04	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		02/03/23 16:04	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		02/03/23 16:04	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		02/03/23 16:04	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		02/03/23 16:04	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		02/03/23 16:04	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		02/03/23 16:04	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		02/03/23 16:04	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		02/03/23 16:04	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		02/03/23 16:04	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		02/03/23 16:04	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		02/03/23 16:04	100-42-5	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

Sample: 20032-SUMP 2 **Lab ID: 40257729012** Collected: 01/31/23 10:45 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		02/03/23 16:04	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		02/03/23 16:04	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		02/03/23 16:04	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		02/03/23 16:04	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		02/03/23 16:04	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		02/03/23 16:04	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		02/03/23 16:04	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		02/03/23 16:04	79-00-5	
Trichloroethene	31.6	ug/L	1.0	0.32	1		02/03/23 16:04	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		02/03/23 16:04	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		02/03/23 16:04	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		02/03/23 16:04	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		02/03/23 16:04	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		02/03/23 16:04	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		02/03/23 16:04	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		02/03/23 16:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/03/23 16:04	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		02/03/23 16:04	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		02/03/23 16:04	2037-26-5	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

Sample: 20032-DUP 1 Lab ID: 40257729013 Collected: 01/31/23 00:00 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<36.9	ug/L	125	36.9	125		02/03/23 17:26	71-43-2	
Bromobenzene	<45.1	ug/L	125	45.1	125		02/03/23 17:26	108-86-1	
Bromochloromethane	<44.7	ug/L	625	44.7	125		02/03/23 17:26	74-97-5	
Bromodichloromethane	<51.9	ug/L	125	51.9	125		02/03/23 17:26	75-27-4	
Bromoform	<475	ug/L	625	475	125		02/03/23 17:26	75-25-2	
Bromomethane	<149	ug/L	625	149	125		02/03/23 17:26	74-83-9	
n-Butylbenzene	<107	ug/L	125	107	125		02/03/23 17:26	104-51-8	
sec-Butylbenzene	<53.0	ug/L	125	53.0	125		02/03/23 17:26	135-98-8	
tert-Butylbenzene	<73.3	ug/L	125	73.3	125		02/03/23 17:26	98-06-6	
Carbon tetrachloride	<46.2	ug/L	125	46.2	125		02/03/23 17:26	56-23-5	
Chlorobenzene	<107	ug/L	125	107	125		02/03/23 17:26	108-90-7	
Chloroethane	<172	ug/L	625	172	125		02/03/23 17:26	75-00-3	
Chloroform	<148	ug/L	625	148	125		02/03/23 17:26	67-66-3	
Chloromethane	<204	ug/L	625	204	125		02/03/23 17:26	74-87-3	
2-Chlorotoluene	<111	ug/L	625	111	125		02/03/23 17:26	95-49-8	
4-Chlorotoluene	<112	ug/L	625	112	125		02/03/23 17:26	106-43-4	
1,2-Dibromo-3-chloropropane	<296	ug/L	625	296	125		02/03/23 17:26	96-12-8	
Dibromochloromethane	<330	ug/L	625	330	125		02/03/23 17:26	124-48-1	
1,2-Dibromoethane (EDB)	<38.6	ug/L	125	38.6	125		02/03/23 17:26	106-93-4	
Dibromomethane	<124	ug/L	625	124	125		02/03/23 17:26	74-95-3	
1,2-Dichlorobenzene	<40.7	ug/L	125	40.7	125		02/03/23 17:26	95-50-1	
1,3-Dichlorobenzene	<43.9	ug/L	125	43.9	125		02/03/23 17:26	541-73-1	
1,4-Dichlorobenzene	<112	ug/L	125	112	125		02/03/23 17:26	106-46-7	
Dichlorodifluoromethane	<56.9	ug/L	625	56.9	125		02/03/23 17:26	75-71-8	
1,1-Dichloroethane	<37.0	ug/L	125	37.0	125		02/03/23 17:26	75-34-3	
1,2-Dichloroethane	<36.4	ug/L	125	36.4	125		02/03/23 17:26	107-06-2	
1,1-Dichloroethene	<72.8	ug/L	125	72.8	125		02/03/23 17:26	75-35-4	
cis-1,2-Dichloroethene	11900	ug/L	125	58.9	125		02/03/23 17:26	156-59-2	
trans-1,2-Dichloroethene	501	ug/L	125	66.0	125		02/03/23 17:26	156-60-5	
1,2-Dichloropropane	<56.0	ug/L	125	56.0	125		02/03/23 17:26	78-87-5	
1,3-Dichloropropane	<38.1	ug/L	125	38.1	125		02/03/23 17:26	142-28-9	
2,2-Dichloropropane	<522	ug/L	625	522	125		02/03/23 17:26	594-20-7	
1,1-Dichloropropene	<51.3	ug/L	125	51.3	125		02/03/23 17:26	563-58-6	
cis-1,3-Dichloropropene	<44.8	ug/L	125	44.8	125		02/03/23 17:26	10061-01-5	
trans-1,3-Dichloropropene	<433	ug/L	625	433	125		02/03/23 17:26	10061-02-6	
Diisopropyl ether	<138	ug/L	625	138	125		02/03/23 17:26	108-20-3	
Ethylbenzene	<40.6	ug/L	125	40.6	125		02/03/23 17:26	100-41-4	
Hexachloro-1,3-butadiene	<342	ug/L	625	342	125		02/03/23 17:26	87-68-3	
Isopropylbenzene (Cumene)	<125	ug/L	625	125	125		02/03/23 17:26	98-82-8	
p-Isopropyltoluene	<130	ug/L	625	130	125		02/03/23 17:26	99-87-6	
Methylene Chloride	<39.9	ug/L	625	39.9	125		02/03/23 17:26	75-09-2	
Methyl-tert-butyl ether	<141	ug/L	625	141	125		02/03/23 17:26	1634-04-4	
Naphthalene	<141	ug/L	625	141	125		02/03/23 17:26	91-20-3	
n-Propylbenzene	<43.2	ug/L	125	43.2	125		02/03/23 17:26	103-65-1	
Styrene	<44.5	ug/L	125	44.5	125		02/03/23 17:26	100-42-5	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

Sample: 20032-DUP 1 **Lab ID: 40257729013** Collected: 01/31/23 00:00 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<44.4	ug/L	125	44.4	125		02/03/23 17:26	630-20-6	
1,1,2,2-Tetrachloroethane	<47.2	ug/L	125	47.2	125		02/03/23 17:26	79-34-5	
Tetrachloroethene	<51.1	ug/L	125	51.1	125		02/03/23 17:26	127-18-4	
Toluene	<36.0	ug/L	125	36.0	125		02/03/23 17:26	108-88-3	
1,2,3-Trichlorobenzene	<127	ug/L	625	127	125		02/03/23 17:26	87-61-6	
1,2,4-Trichlorobenzene	<119	ug/L	625	119	125		02/03/23 17:26	120-82-1	
1,1,1-Trichloroethane	<37.8	ug/L	125	37.8	125		02/03/23 17:26	71-55-6	
1,1,2-Trichloroethane	<43.1	ug/L	625	43.1	125		02/03/23 17:26	79-00-5	
Trichloroethene	276	ug/L	125	40.0	125		02/03/23 17:26	79-01-6	
Trichlorofluoromethane	<52.3	ug/L	125	52.3	125		02/03/23 17:26	75-69-4	
1,2,3-Trichloropropane	<69.4	ug/L	625	69.4	125		02/03/23 17:26	96-18-4	
1,2,4-Trimethylbenzene	<56.1	ug/L	125	56.1	125		02/03/23 17:26	95-63-6	
1,3,5-Trimethylbenzene	<44.7	ug/L	125	44.7	125		02/03/23 17:26	108-67-8	
Vinyl chloride	48200	ug/L	250	43.6	250		02/06/23 10:54	75-01-4	pH
m&p-Xylene	<87.5	ug/L	250	87.5	125		02/03/23 17:26	179601-23-1	
o-Xylene	<43.5	ug/L	125	43.5	125		02/03/23 17:26	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		125		02/03/23 17:26	460-00-4	pH
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		125		02/03/23 17:26	2199-69-1	
Toluene-d8 (S)	100	%	70-130		125		02/03/23 17:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

Sample: 20032-DUP 2 Lab ID: 40257729014 Collected: 01/31/23 00:00 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		02/06/23 09:52	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		02/06/23 09:52	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		02/06/23 09:52	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		02/06/23 09:52	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		02/06/23 09:52	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		02/06/23 09:52	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		02/06/23 09:52	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		02/06/23 09:52	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		02/06/23 09:52	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		02/06/23 09:52	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		02/06/23 09:52	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		02/06/23 09:52	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		02/06/23 09:52	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		02/06/23 09:52	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/06/23 09:52	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/06/23 09:52	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		02/06/23 09:52	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		02/06/23 09:52	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		02/06/23 09:52	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		02/06/23 09:52	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		02/06/23 09:52	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		02/06/23 09:52	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		02/06/23 09:52	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		02/06/23 09:52	75-71-8	
1,1-Dichloroethane	8.3	ug/L	1.0	0.30	1		02/06/23 09:52	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		02/06/23 09:52	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		02/06/23 09:52	75-35-4	
cis-1,2-Dichloroethene	0.53J	ug/L	1.0	0.47	1		02/06/23 09:52	156-59-2	
trans-1,2-Dichloroethene	1.6	ug/L	1.0	0.53	1		02/06/23 09:52	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		02/06/23 09:52	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		02/06/23 09:52	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		02/06/23 09:52	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		02/06/23 09:52	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		02/06/23 09:52	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		02/06/23 09:52	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		02/06/23 09:52	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		02/06/23 09:52	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		02/06/23 09:52	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		02/06/23 09:52	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		02/06/23 09:52	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		02/06/23 09:52	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		02/06/23 09:52	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		02/06/23 09:52	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		02/06/23 09:52	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		02/06/23 09:52	100-42-5	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

Sample: 20032-DUP 2 **Lab ID: 40257729014** Collected: 01/31/23 00:00 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		02/06/23 09:52	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		02/06/23 09:52	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		02/06/23 09:52	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		02/06/23 09:52	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		02/06/23 09:52	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		02/06/23 09:52	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		02/06/23 09:52	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		02/06/23 09:52	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		02/06/23 09:52	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		02/06/23 09:52	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		02/06/23 09:52	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		02/06/23 09:52	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		02/06/23 09:52	108-67-8	
Vinyl chloride	2.1	ug/L	1.0	0.17	1		02/06/23 09:52	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		02/06/23 09:52	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		02/06/23 09:52	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		02/06/23 09:52	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		02/06/23 09:52	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		02/06/23 09:52	2037-26-5	

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

Sample: 20032-TB1 **Lab ID: 40257729015** Collected: 01/31/23 00:00 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		02/03/23 14:41	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		02/03/23 14:41	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		02/03/23 14:41	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		02/03/23 14:41	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		02/03/23 14:41	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		02/03/23 14:41	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		02/03/23 14:41	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		02/03/23 14:41	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		02/03/23 14:41	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		02/03/23 14:41	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		02/03/23 14:41	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		02/03/23 14:41	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		02/03/23 14:41	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		02/03/23 14:41	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/03/23 14:41	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		02/03/23 14:41	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		02/03/23 14:41	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		02/03/23 14:41	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		02/03/23 14:41	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		02/03/23 14:41	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		02/03/23 14:41	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		02/03/23 14:41	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		02/03/23 14:41	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		02/03/23 14:41	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		02/03/23 14:41	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		02/03/23 14:41	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		02/03/23 14:41	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		02/03/23 14:41	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		02/03/23 14:41	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		02/03/23 14:41	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		02/03/23 14:41	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		02/03/23 14:41	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		02/03/23 14:41	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		02/03/23 14:41	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		02/03/23 14:41	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		02/03/23 14:41	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		02/03/23 14:41	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		02/03/23 14:41	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		02/03/23 14:41	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		02/03/23 14:41	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		02/03/23 14:41	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		02/03/23 14:41	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		02/03/23 14:41	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		02/03/23 14:41	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		02/03/23 14:41	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

Sample: 20032-TB1 **Lab ID: 40257729015** Collected: 01/31/23 00:00 Received: 02/02/23 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		02/03/23 14:41	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		02/03/23 14:41	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		02/03/23 14:41	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		02/03/23 14:41	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		02/03/23 14:41	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		02/03/23 14:41	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		02/03/23 14:41	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		02/03/23 14:41	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		02/03/23 14:41	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		02/03/23 14:41	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		02/03/23 14:41	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		02/03/23 14:41	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		02/03/23 14:41	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		02/03/23 14:41	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		02/03/23 14:41	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		02/03/23 14:41	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/03/23 14:41	460-00-4	HS
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		02/03/23 14:41	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		02/03/23 14:41	2037-26-5	

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QUALITY CONTROL DATA

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

QC Batch:	437426	Analysis Method:	EPA 8015B Modified
QC Batch Method:	EPA 8015B Modified	Analysis Description:	Methane, Ethane, Ethene GCV
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40257729001, 40257729002, 40257729003, 40257729004, 40257729005, 40257729006, 40257729007, 40257729008, 40257729009, 40257729010

METHOD BLANK: 2514522 Matrix: Water
Associated Lab Samples: 40257729001, 40257729002, 40257729003, 40257729004, 40257729005, 40257729006, 40257729007, 40257729008, 40257729009, 40257729010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.39	5.6	02/09/23 09:05	
Ethene	ug/L	<0.25	5.0	02/09/23 09:05	
Methane	ug/L	<0.58	2.8	02/09/23 09:05	

LABORATORY CONTROL SAMPLE & LCSD: 2514523 2514524

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	50.5	53.7	94	100	74-120	6	20	
Ethene	ug/L	50	47.0	50.5	94	101	71-122	7	20	
Methane	ug/L	28.6	26.6	28.7	93	100	73-120	7	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2515142 2515143

Parameter	Units	40257946002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<0.39	53.6	53.6	51.0	53.9	95	101	70-120	6	20	
Ethene	ug/L	<0.25	50	50	48.0	50.1	96	100	68-122	4	20	
Methane	ug/L	<0.58	28.6	28.6	26.8	28.4	94	99	10-200	6	20	

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QUALITY CONTROL DATA

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

QC Batch: 437090 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40257729003, 40257729004

METHOD BLANK: 2512952 Matrix: Water

Associated Lab Samples: 40257729003, 40257729004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	02/03/23 10:27	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	02/03/23 10:27	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	02/03/23 10:27	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	02/03/23 10:27	
1,1-Dichloroethane	ug/L	<0.30	1.0	02/03/23 10:27	
1,1-Dichloroethene	ug/L	<0.58	1.0	02/03/23 10:27	
1,1-Dichloropropene	ug/L	<0.41	1.0	02/03/23 10:27	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	02/03/23 10:27	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	02/03/23 10:27	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	02/03/23 10:27	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	02/03/23 10:27	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	02/03/23 10:27	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	02/03/23 10:27	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	02/03/23 10:27	
1,2-Dichloroethane	ug/L	<0.29	1.0	02/03/23 10:27	
1,2-Dichloropropane	ug/L	<0.45	1.0	02/03/23 10:27	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	02/03/23 10:27	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	02/03/23 10:27	
1,3-Dichloropropane	ug/L	<0.30	1.0	02/03/23 10:27	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	02/03/23 10:27	
2,2-Dichloropropane	ug/L	<4.2	5.0	02/03/23 10:27	
2-Chlorotoluene	ug/L	<0.89	5.0	02/03/23 10:27	
4-Chlorotoluene	ug/L	<0.89	5.0	02/03/23 10:27	
Benzene	ug/L	<0.30	1.0	02/03/23 10:27	
Bromobenzene	ug/L	<0.36	1.0	02/03/23 10:27	
Bromochloromethane	ug/L	<0.36	5.0	02/03/23 10:27	
Bromodichloromethane	ug/L	<0.42	1.0	02/03/23 10:27	
Bromoform	ug/L	<3.8	5.0	02/03/23 10:27	
Bromomethane	ug/L	<1.2	5.0	02/03/23 10:27	
Carbon tetrachloride	ug/L	<0.37	1.0	02/03/23 10:27	
Chlorobenzene	ug/L	<0.86	1.0	02/03/23 10:27	
Chloroethane	ug/L	<1.4	5.0	02/03/23 10:27	
Chloroform	ug/L	<1.2	5.0	02/03/23 10:27	
Chloromethane	ug/L	<1.6	5.0	02/03/23 10:27	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	02/03/23 10:27	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	02/03/23 10:27	
Dibromochloromethane	ug/L	<2.6	5.0	02/03/23 10:27	
Dibromomethane	ug/L	<0.99	5.0	02/03/23 10:27	
Dichlorodifluoromethane	ug/L	<0.46	5.0	02/03/23 10:27	
Diisopropyl ether	ug/L	<1.1	5.0	02/03/23 10:27	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

METHOD BLANK: 2512952 Matrix: Water
Associated Lab Samples: 40257729003, 40257729004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.33	1.0	02/03/23 10:27	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	02/03/23 10:27	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	02/03/23 10:27	
m&p-Xylene	ug/L	<0.70	2.0	02/03/23 10:27	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	02/03/23 10:27	
Methylene Chloride	ug/L	<0.32	5.0	02/03/23 10:27	
n-Butylbenzene	ug/L	<0.86	1.0	02/03/23 10:27	
n-Propylbenzene	ug/L	<0.35	1.0	02/03/23 10:27	
Naphthalene	ug/L	<1.1	5.0	02/03/23 10:27	
o-Xylene	ug/L	<0.35	1.0	02/03/23 10:27	
p-Isopropyltoluene	ug/L	<1.0	5.0	02/03/23 10:27	
sec-Butylbenzene	ug/L	<0.42	1.0	02/03/23 10:27	
Styrene	ug/L	<0.36	1.0	02/03/23 10:27	
tert-Butylbenzene	ug/L	<0.59	1.0	02/03/23 10:27	
Tetrachloroethene	ug/L	<0.41	1.0	02/03/23 10:27	
Toluene	ug/L	<0.29	1.0	02/03/23 10:27	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	02/03/23 10:27	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	02/03/23 10:27	
Trichloroethene	ug/L	<0.32	1.0	02/03/23 10:27	
Trichlorofluoromethane	ug/L	<0.42	1.0	02/03/23 10:27	
Vinyl chloride	ug/L	<0.17	1.0	02/03/23 10:27	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130	02/03/23 10:27	
4-Bromofluorobenzene (S)	%	100	70-130	02/03/23 10:27	
Toluene-d8 (S)	%	107	70-130	02/03/23 10:27	

LABORATORY CONTROL SAMPLE: 2512953

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.9	102	70-134	
1,1,2,2-Tetrachloroethane	ug/L	50	47.9	96	69-130	
1,1,2-Trichloroethane	ug/L	50	49.7	99	70-130	
1,1-Dichloroethane	ug/L	50	54.5	109	70-130	
1,1-Dichloroethene	ug/L	50	59.4	119	74-131	
1,2,4-Trichlorobenzene	ug/L	50	39.2	78	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	41.8	84	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	45.9	92	70-130	
1,2-Dichlorobenzene	ug/L	50	46.1	92	70-130	
1,2-Dichloroethane	ug/L	50	59.0	118	70-137	
1,2-Dichloropropane	ug/L	50	52.6	105	80-121	
1,3-Dichlorobenzene	ug/L	50	46.2	92	70-130	
1,4-Dichlorobenzene	ug/L	50	47.4	95	70-130	
Benzene	ug/L	50	51.5	103	70-130	
Bromodichloromethane	ug/L	50	49.3	99	70-130	
Bromoform	ug/L	50	43.6	87	70-130	

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QUALITY CONTROL DATA

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

LABORATORY CONTROL SAMPLE: 2512953

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	45.2	90	21-147	
Carbon tetrachloride	ug/L	50	49.8	100	80-146	
Chlorobenzene	ug/L	50	51.3	103	70-130	
Chloroethane	ug/L	50	53.2	106	52-165	
Chloroform	ug/L	50	53.3	107	80-123	
Chloromethane	ug/L	50	39.4	79	51-122	
cis-1,2-Dichloroethene	ug/L	50	46.5	93	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.5	95	70-130	
Dibromochloromethane	ug/L	50	45.8	92	70-130	
Dichlorodifluoromethane	ug/L	50	29.3	59	25-121	
Ethylbenzene	ug/L	50	55.7	111	80-120	
Isopropylbenzene (Cumene)	ug/L	50	53.4	107	70-130	
m&p-Xylene	ug/L	100	107	107	70-130	
Methyl-tert-butyl ether	ug/L	50	56.1	112	70-130	
Methylene Chloride	ug/L	50	57.8	116	70-130	
o-Xylene	ug/L	50	53.3	107	70-130	
Styrene	ug/L	50	50.0	100	70-130	
Tetrachloroethene	ug/L	50	47.2	94	70-130	
Toluene	ug/L	50	51.8	104	80-120	
trans-1,2-Dichloroethene	ug/L	50	57.1	114	70-130	
trans-1,3-Dichloropropene	ug/L	50	46.8	94	70-130	
Trichloroethene	ug/L	50	50.5	101	70-130	
Trichlorofluoromethane	ug/L	50	51.9	104	65-160	
Vinyl chloride	ug/L	50	44.5	89	63-134	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			107	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2513064 2513065

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40257648001 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<0.30	50	50	50	49.2	48.8	98	98	70-134	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	50	46.6	47.8	93	96	61-135	3	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	50	49.9	49.4	100	99	70-130	1	20	
1,1-Dichloroethane	ug/L	0.97J	50	50	50	54.4	52.2	107	102	70-130	4	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	50	57.6	56.4	115	113	71-130	2	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	50	39.1	38.6	78	77	68-131	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	50	39.4	40.8	79	82	51-141	4	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	50	44.8	45.0	90	90	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	50	45.9	45.3	92	91	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	50	58.1	57.1	116	114	70-137	2	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	50	52.7	52.6	105	105	80-121	0	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	50	46.3	45.2	93	90	70-130	2	20	

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QUALITY CONTROL DATA

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2513064												2513065	
Parameter	Units	40257648001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD		
1,4-Dichlorobenzene	ug/L	<0.89	50	50	46.3	45.3	93	91	70-130	2	20		
Benzene	ug/L	<0.30	50	50	49.6	48.8	99	98	70-130	2	20		
Bromodichloromethane	ug/L	<0.42	50	50	48.4	48.2	97	96	70-130	0	20		
Bromoform	ug/L	<3.8	50	50	42.3	42.4	85	85	70-133	0	20		
Bromomethane	ug/L	<1.2	50	50	46.4	46.9	93	94	21-149	1	22		
Carbon tetrachloride	ug/L	<0.37	50	50	47.6	48.0	95	96	80-146	1	20		
Chlorobenzene	ug/L	<0.86	50	50	50.2	48.7	100	97	70-130	3	20		
Chloroethane	ug/L	<1.4	50	50	51.6	53.4	103	107	52-165	3	20		
Chloroform	ug/L	<1.2	50	50	51.8	51.1	104	102	80-123	1	20		
Chloromethane	ug/L	<1.6	50	50	37.0	36.1	74	72	42-125	2	20		
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	47.7	46.7	95	93	70-130	2	20		
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	47.1	46.4	94	93	70-130	2	20		
Dibromochloromethane	ug/L	<2.6	50	50	45.0	43.7	90	87	70-130	3	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	28.2	28.1	56	56	25-121	0	20		
Ethylbenzene	ug/L	<0.33	50	50	54.2	53.0	108	106	80-121	2	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	52.1	50.9	104	102	70-130	2	20		
m&p-Xylene	ug/L	<0.70	100	100	105	105	105	105	70-130	0	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	54.5	55.5	109	111	70-130	2	20		
Methylene Chloride	ug/L	<0.32	50	50	55.8	54.7	112	109	70-130	2	20		
o-Xylene	ug/L	<0.35	50	50	51.7	50.4	103	101	70-130	2	20		
Styrene	ug/L	<0.36	50	50	48.4	47.5	97	95	70-132	2	20		
Tetrachloroethene	ug/L	<0.41	50	50	45.0	43.9	90	88	70-130	2	20		
Toluene	ug/L	<0.29	50	50	50.1	50.0	100	100	80-120	0	20		
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	55.5	55.7	111	111	70-130	0	20		
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	46.7	46.6	93	93	70-130	0	20		
Trichloroethene	ug/L	<0.32	50	50	47.7	47.8	95	96	70-130	0	20		
Trichlorofluoromethane	ug/L	<0.42	50	50	50.9	49.7	102	99	65-160	2	20		
Vinyl chloride	ug/L	<0.17	50	50	44.0	43.1	88	86	60-137	2	20		
1,2-Dichlorobenzene-d4 (S)	%						98	95	70-130				
4-Bromofluorobenzene (S)	%						100	100	70-130				
Toluene-d8 (S)	%						106	107	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

QC Batch: 437091 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40257729001, 40257729002, 40257729005, 40257729006, 40257729007, 40257729008, 40257729009, 40257729010, 40257729011, 40257729012, 40257729013, 40257729014, 40257729015

METHOD BLANK: 2512954 Matrix: Water
Associated Lab Samples: 40257729001, 40257729002, 40257729005, 40257729006, 40257729007, 40257729008, 40257729009, 40257729010, 40257729011, 40257729012, 40257729013, 40257729014, 40257729015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	02/03/23 10:33	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	02/03/23 10:33	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	02/03/23 10:33	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	02/03/23 10:33	
1,1-Dichloroethane	ug/L	<0.30	1.0	02/03/23 10:33	
1,1-Dichloroethene	ug/L	<0.58	1.0	02/03/23 10:33	
1,1-Dichloropropene	ug/L	<0.41	1.0	02/03/23 10:33	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	02/03/23 10:33	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	02/03/23 10:33	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	02/03/23 10:33	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	02/03/23 10:33	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	02/03/23 10:33	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	02/03/23 10:33	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	02/03/23 10:33	
1,2-Dichloroethane	ug/L	<0.29	1.0	02/03/23 10:33	
1,2-Dichloropropane	ug/L	<0.45	1.0	02/03/23 10:33	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	02/03/23 10:33	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	02/03/23 10:33	
1,3-Dichloropropane	ug/L	<0.30	1.0	02/03/23 10:33	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	02/03/23 10:33	
2,2-Dichloropropane	ug/L	<4.2	5.0	02/03/23 10:33	
2-Chlorotoluene	ug/L	<0.89	5.0	02/03/23 10:33	
4-Chlorotoluene	ug/L	<0.89	5.0	02/03/23 10:33	
Benzene	ug/L	<0.30	1.0	02/03/23 10:33	
Bromobenzene	ug/L	<0.36	1.0	02/03/23 10:33	
Bromochloromethane	ug/L	<0.36	5.0	02/03/23 10:33	
Bromodichloromethane	ug/L	<0.42	1.0	02/03/23 10:33	
Bromoform	ug/L	<3.8	5.0	02/03/23 10:33	
Bromomethane	ug/L	<1.2	5.0	02/03/23 10:33	
Carbon tetrachloride	ug/L	<0.37	1.0	02/03/23 10:33	
Chlorobenzene	ug/L	<0.86	1.0	02/03/23 10:33	
Chloroethane	ug/L	<1.4	5.0	02/03/23 10:33	
Chloroform	ug/L	<1.2	5.0	02/03/23 10:33	
Chloromethane	ug/L	<1.6	5.0	02/03/23 10:33	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	02/03/23 10:33	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	02/03/23 10:33	
Dibromochloromethane	ug/L	<2.6	5.0	02/03/23 10:33	
Dibromomethane	ug/L	<0.99	5.0	02/03/23 10:33	
Dichlorodifluoromethane	ug/L	<0.46	5.0	02/03/23 10:33	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

METHOD BLANK: 2512954

Matrix: Water

Associated Lab Samples: 40257729001, 40257729002, 40257729005, 40257729006, 40257729007, 40257729008, 40257729009, 40257729010, 40257729011, 40257729012, 40257729013, 40257729014, 40257729015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<1.1	5.0	02/03/23 10:33	
Ethylbenzene	ug/L	<0.33	1.0	02/03/23 10:33	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	02/03/23 10:33	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	02/03/23 10:33	
m&p-Xylene	ug/L	<0.70	2.0	02/03/23 10:33	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	02/03/23 10:33	
Methylene Chloride	ug/L	<0.32	5.0	02/03/23 10:33	
n-Butylbenzene	ug/L	<0.86	1.0	02/03/23 10:33	
n-Propylbenzene	ug/L	<0.35	1.0	02/03/23 10:33	
Naphthalene	ug/L	<1.1	5.0	02/03/23 10:33	
o-Xylene	ug/L	<0.35	1.0	02/03/23 10:33	
p-Isopropyltoluene	ug/L	<1.0	5.0	02/03/23 10:33	
sec-Butylbenzene	ug/L	<0.42	1.0	02/03/23 10:33	
Styrene	ug/L	<0.36	1.0	02/03/23 10:33	
tert-Butylbenzene	ug/L	<0.59	1.0	02/03/23 10:33	
Tetrachloroethene	ug/L	<0.41	1.0	02/03/23 10:33	
Toluene	ug/L	<0.29	1.0	02/03/23 10:33	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	02/03/23 10:33	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	02/03/23 10:33	
Trichloroethene	ug/L	<0.32	1.0	02/03/23 10:33	
Trichlorofluoromethane	ug/L	<0.42	1.0	02/03/23 10:33	
Vinyl chloride	ug/L	<0.17	1.0	02/03/23 10:33	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130	02/03/23 10:33	
4-Bromofluorobenzene (S)	%	101	70-130	02/03/23 10:33	
Toluene-d8 (S)	%	101	70-130	02/03/23 10:33	

LABORATORY CONTROL SAMPLE: 2512955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	58.2	116	70-134	
1,1,1,2-Tetrachloroethane	ug/L	50	51.2	102	69-130	
1,1,2-Trichloroethane	ug/L	50	50.7	101	70-130	
1,1-Dichloroethane	ug/L	50	53.0	106	70-130	
1,1-Dichloroethene	ug/L	50	52.4	105	74-131	
1,2,4-Trichlorobenzene	ug/L	50	47.3	95	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	50.0	100	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	51.2	102	70-130	
1,2-Dichlorobenzene	ug/L	50	52.4	105	70-130	
1,2-Dichloroethane	ug/L	50	51.6	103	70-137	
1,2-Dichloropropane	ug/L	50	53.5	107	80-121	
1,3-Dichlorobenzene	ug/L	50	53.9	108	70-130	
1,4-Dichlorobenzene	ug/L	50	51.3	103	70-130	
Benzene	ug/L	50	52.4	105	70-130	

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QUALITY CONTROL DATA

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

LABORATORY CONTROL SAMPLE: 2512955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	50	53.9	108	70-130	
Bromoform	ug/L	50	51.5	103	70-130	
Bromomethane	ug/L	50	34.9	70	21-147	
Carbon tetrachloride	ug/L	50	61.9	124	80-146	
Chlorobenzene	ug/L	50	54.1	108	70-130	
Chloroethane	ug/L	50	47.5	95	52-165	
Chloroform	ug/L	50	55.1	110	80-123	
Chloromethane	ug/L	50	45.8	92	51-122	
cis-1,2-Dichloroethene	ug/L	50	52.1	104	70-130	
cis-1,3-Dichloropropene	ug/L	50	52.9	106	70-130	
Dibromochloromethane	ug/L	50	51.4	103	70-130	
Dichlorodifluoromethane	ug/L	50	37.3	75	25-121	
Ethylbenzene	ug/L	50	54.7	109	80-120	
Isopropylbenzene (Cumene)	ug/L	50	52.8	106	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	46.7	93	70-130	
Methylene Chloride	ug/L	50	49.6	99	70-130	
o-Xylene	ug/L	50	52.3	105	70-130	
Styrene	ug/L	50	61.9	124	70-130	
Tetrachloroethene	ug/L	50	54.4	109	70-130	
Toluene	ug/L	50	52.9	106	80-120	
trans-1,2-Dichloroethene	ug/L	50	53.1	106	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.4	101	70-130	
Trichloroethene	ug/L	50	53.3	107	70-130	
Trichlorofluoromethane	ug/L	50	52.7	105	65-160	
Vinyl chloride	ug/L	50	48.2	96	63-134	
1,2-Dichlorobenzene-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2513060 2513061

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40257729002 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<0.30	50	50	59.9	61.1	120	122	70-134	2	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	53.8	54.9	108	110	61-135	2	20		
1,1,2-Trichloroethane	ug/L	<0.34	50	50	51.6	52.1	103	104	70-130	1	20		
1,1-Dichloroethane	ug/L	<0.30	50	50	54.7	55.9	109	112	70-130	2	20		
1,1-Dichloroethene	ug/L	1.6	50	50	55.5	58.4	108	114	71-130	5	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	50.2	52.4	100	105	68-131	4	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	53.7	55.8	107	112	51-141	4	20		
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	51.9	52.4	104	105	70-130	1	20		
1,2-Dichlorobenzene	ug/L	<0.33	50	50	53.6	54.5	107	109	70-130	2	20		
1,2-Dichloroethane	ug/L	<0.29	50	50	54.1	54.8	108	110	70-137	1	20		

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QUALITY CONTROL DATA

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

Parameter	Units	2513060		2513061		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40257729002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,2-Dichloropropane	ug/L	<0.45	50	50	55.7	56.7	111	113	80-121	2	20		
1,3-Dichlorobenzene	ug/L	<0.35	50	50	54.9	55.5	110	111	70-130	1	20		
1,4-Dichlorobenzene	ug/L	<0.89	50	50	51.3	51.1	103	102	70-130	0	20		
Benzene	ug/L	<0.30	50	50	54.1	54.2	108	108	70-130	0	20		
Bromodichloromethane	ug/L	<0.42	50	50	55.5	55.9	111	112	70-130	1	20		
Bromoform	ug/L	<3.8	50	50	51.8	52.7	104	105	70-133	2	20		
Bromomethane	ug/L	<1.2	50	50	41.8	44.9	84	90	21-149	7	22		
Carbon tetrachloride	ug/L	<0.37	50	50	63.0	65.0	126	130	80-146	3	20		
Chlorobenzene	ug/L	<0.86	50	50	55.3	54.7	111	109	70-130	1	20		
Chloroethane	ug/L	<1.4	50	50	49.8	52.5	100	105	52-165	5	20		
Chloroform	ug/L	<1.2	50	50	56.8	57.6	114	115	80-123	1	20		
Chloromethane	ug/L	<1.6	50	50	46.2	47.5	92	95	42-125	3	20		
cis-1,2-Dichloroethene	ug/L	63.7	50	50	115	118	103	108	70-130	2	20		
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	54.6	55.3	109	111	70-130	1	20		
Dibromochloromethane	ug/L	<2.6	50	50	52.1	51.5	104	103	70-130	1	20		
Dichlorodifluoromethane	ug/L	5.9	50	50	42.3	43.8	73	76	25-121	3	20		
Ethylbenzene	ug/L	<0.33	50	50	56.2	55.9	112	112	80-121	0	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	54.2	54.0	108	108	70-130	0	20		
m&p-Xylene	ug/L	<0.70	100	100	107	107	107	107	70-130	1	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	48.3	48.7	97	97	70-130	1	20		
Methylene Chloride	ug/L	<0.32	50	50	51.3	52.7	103	105	70-130	3	20		
o-Xylene	ug/L	<0.35	50	50	53.5	53.0	107	106	70-130	1	20		
Styrene	ug/L	<0.36	50	50	63.9	62.9	128	126	70-132	2	20		
Tetrachloroethene	ug/L	<0.41	50	50	55.2	54.5	110	109	70-130	1	20		
Toluene	ug/L	<0.29	50	50	54.3	54.5	109	109	80-120	0	20		
trans-1,2-Dichloroethene	ug/L	2.2	50	50	57.0	58.9	110	113	70-130	3	20		
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	52.5	52.0	105	104	70-130	1	20		
Trichloroethene	ug/L	39.8	50	50	98.4	99.6	117	120	70-130	1	20		
Trichlorofluoromethane	ug/L	<0.42	50	50	54.0	55.7	108	111	65-160	3	20		
Vinyl chloride	ug/L	5.2	50	50	54.1	56.0	98	102	60-137	3	20		
1,2-Dichlorobenzene-d4 (S)	%						100	102	70-130				
4-Bromofluorobenzene (S)	%						104	103	70-130				
Toluene-d8 (S)	%						102	102	70-130				

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QUALITY CONTROL DATA

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

QC Batch: 437268 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40257729001, 40257729004, 40257729006, 40257729007

METHOD BLANK: 2513845 Matrix: Water
Associated Lab Samples: 40257729001, 40257729004, 40257729006, 40257729007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.14	0.50	02/07/23 10:04	

LABORATORY CONTROL SAMPLE: 2513846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	12.5	12.1	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2513847 2513848

Parameter	Units	2513847		2513848		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10641331001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Total Organic Carbon	mg/L	<0.14	6	6	5.6	5.6	92	92	80-120	0	10	

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QUALIFIERS

Project: 200032 JAGEMANN PLATING

Pace Project No.: 40257729

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 200032 JAGEMANN PLATING
Pace Project No.: 40257729

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40257729001	20032-MW1	EPA 8015B Modified	437426		
40257729002	20032-MW3	EPA 8015B Modified	437426		
40257729003	20032-MW8	EPA 8015B Modified	437426		
40257729004	20032-MW14	EPA 8015B Modified	437426		
40257729005	20032-MW15	EPA 8015B Modified	437426		
40257729006	20032-TW20	EPA 8015B Modified	437426		
40257729007	20032-TW21	EPA 8015B Modified	437426		
40257729008	20032-TW22	EPA 8015B Modified	437426		
40257729009	20032-TW23	EPA 8015B Modified	437426		
40257729010	20032-TW24	EPA 8015B Modified	437426		
40257729001	20032-MW1	EPA 8260	437091		
40257729002	20032-MW3	EPA 8260	437091		
40257729003	20032-MW8	EPA 8260	437090		
40257729004	20032-MW14	EPA 8260	437090		
40257729005	20032-MW15	EPA 8260	437091		
40257729006	20032-TW20	EPA 8260	437091		
40257729007	20032-TW21	EPA 8260	437091		
40257729008	20032-TW22	EPA 8260	437091		
40257729009	20032-TW23	EPA 8260	437091		
40257729010	20032-TW24	EPA 8260	437091		
40257729011	20032-SUMP 1	EPA 8260	437091		
40257729012	20032-SUMP 2	EPA 8260	437091		
40257729013	20032-DUP 1	EPA 8260	437091		
40257729014	20032-DUP 2	EPA 8260	437091		
40257729015	20032-TB1	EPA 8260	437091		
40257729001	20032-MW1	SM 5310C	437268		
40257729004	20032-MW14	SM 5310C	437268		
40257729006	20032-TW20	SM 5310C	437268		
40257729007	20032-TW21	SM 5310C	437268		

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CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

40257729

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Company: **EnviroForensics**
 Address: **11607 3396 Stone Ridge Dr**
 Report To: **WFassbender@enviroforensics.com**
 Copy To:

Billing Information:
accounts payable@enviroforensics.com
 Email To:
 Site Collection Info/Address: **1324 S 26th St**

Container Preservative Type **
3 3 2
 Lab Project Manager:
 ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Project Name/Number:
200032 (Lagemann Plating)
 Phone: **262-290-4001**
 Email:
 Collected By (print): **R Brown**
 Collected By (signature): **RL**
 Sample Disposal:
 Dispose as appropriate Return
 Archive: _____
 Hold: _____

State: **WI** County/City: **Monitowoc** Time Zone Collected: [] PT [] MT [] CT [] ET
 Compliance Monitoring? [] Yes [] No
 DW PWS ID #: _____
 DW Location Code: _____
 Immediately Packed on Ice: [] Yes [] No
 Field Filtered (if applicable): [] Yes No
 Analysis: _____

Analyses		Lab Profile/Line:
VOC 8LC	Ethane, Ethene, Methane	Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signature Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Soils Y N NA Samples in Holding Time Y N NA Residual Chlorine Present Y N NA Cl Strips: _____ Sample pH Acceptable Y N NA pH Strips: _____ Sulfide Present Y N NA Lead Acetate Strips: _____ LAB USE ONLY: Lab Sample # / Comments:
Total Organic Carbon		

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
200032-MW1	GW	G	1-31-23	1315			10	X X X
200032-MW3				1330			6	X X
200032-MW8				1340			6	X X
200032-MW14				1135			6	X X X
200032-MW14				1135			6	X X X
200032-MW15				1206			6	X X
200032-TW20				1105			5	X X X
200032-TW21				1403			7	X X X
200032-TW22				1420			6	X X
200032-TW23				1240			6	X X

Customer Remarks / Special Conditions / Possible Hazards:
 Type of Ice Used: Wet Blue Dry None
 Packing Material Used: **2**
 Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
 Lab Tracking #: **2824124**
 Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#: _____
 Cooler 1 Temp Upon Receipt: _____ oC
 Cooler 1 Therm Corr Factor: _____ oC
 Cooler 1 Corrected Temp: _____ oC
 Comments: **1**

Relinquished by/Company: (Signature)
RL EnviroForensics
 Relinquished by/Company: (Signature)
CS Logistics
 Relinquished by/Company: (Signature)

Date/Time: **2-1-23 1200**
 Received by/Company: (Signature)
CS Logistics
mpm
 Date/Time: **2/2/23 0735**
 Received by/Company: (Signature)

Date/Time: **2-1-23 1200**
 Date/Time: **2/2/23 0735**
 Date/Time:
 Date/Time:

MTJL LAB USE ONLY
 Table #: _____
 Acctnum: _____
 Template: _____
 Prelogin: _____
 PM: _____
 PB: _____
 Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s): Page 50 of 55
 YES / NO of: **2**

Pace Container Order #1048840

40257729

Addresses	Ship To :	Return To:
Order By : Company <u>Enviroforensics</u> Contact <u>Hoverman, Robert</u> Email <u>rhooverman@enviroforensics.com</u> Address <u>N16 W23390 Stone Ridge Drive</u> Address 2 <u>Suite G</u> City <u>Waukesha</u> State <u>WI</u> Zip <u>53188</u> Phone <u>262-510-0612</u>	Ship To : Company <u>ENVIROFORENS</u> Contact <u>Rebecca Brown</u> Email <u>rbrown@enviroforensics.com</u> Address <u>N16 W23390 Stone Ridge Drive</u> Address 2 <u>Suite G</u> City <u>Waukesha</u> State <u>WI</u> Zip <u>53188</u> Phone <u>262-510-0612</u>	Return To: Company <u>Pace Analytical Green Bay</u> Contact <u>Milewsky, Dan</u> Email <u>dan.milewsky@pacelabs.com</u> Address <u>1241 Bellevue Street</u> Address 2 <u>Suite 9</u> City <u>Green Bay</u> State <u>WI</u> Zip <u>54302</u> Phone <u>(920)469-2436</u>

Info			
Project Name <u>200032 Jagemann Plating</u>	Due Date <u>01/25/2023</u>	Profile <u>x</u>	Quote _____
Project Manager <u>Milewsky, Dan</u>	Return Date _____	Carrier <u>Most Economical</u>	Location <u>WI</u>

Trip Blanks

Include Trip Blanks

Bottle Labels

Blank

Pre-Printed No Sample IDs

Pre-Printed With Sample IDs

Bottles

Boxed Cases

Individually Wrapped

Grouped By Sample ID/Matrix

Return Shipping Labels

No Shipper

With Shipper

Misc

Sampling Instructions

Custody Seal

Temp. Blanks

Coolers

Syringes

Extra Bubble Wrap

Short Hold/Rush Stickers

DI Water

USDA Regulated Soils

COC Options

Number of Blanks

Pre-Printed

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
12	WT	VOC WI List	3-40ml clear vial HCl-hydrochloric acid	36	0	101022-3CYR	
1	WT	Trip Blank	2-40mL HCL w/custody seal	2	0	B-2-214-01VB	

Hazard Shipping Placard In Place : NO

- *Sample receiving hours are typically 8am-5pm, but may differ by location. Please check with your Pace Project Manager.
- *Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.
- *Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage/disposal.
- *Payment term are net 30 days.
- *Please include the proposal number on the chain of custody to insure proper billing.

LAB USE:

Ship Date :

Prepared By:

Verified By:

Sample

CLIENT USE (Optional):

Date Rec'd:

Received By:

Verified By:

Pace Container Order #1054521

40257729

Addresses	Ship To :	Return To:
Order By : Company <u>Enviroforensics</u> Contact <u>Hoverman, Robert</u> Email <u>rhoverman@enviroforensics.com</u> Address <u>N16 W23390 Stone Ridge Drive</u> Address 2 <u>Suite G</u> City <u>Waukesha</u> State <u>WI</u> Zip <u>53188</u> Phone <u>262-510-0612</u>	Company <u>Hold for Client Pickup</u> Contact _____ Email _____ Address _____ Address 2 _____ City _____ State _____ Zip _____ Phone _____	Company <u>Pace Analytical Green Bay</u> Contact <u>Milewsky, Dan</u> Email <u>dan.milewsky@pacelabs.com</u> Address <u>1241 Bellevue Street</u> Address 2 <u>Suite 9</u> City <u>Green Bay</u> State <u>WI</u> Zip <u>54302</u> Phone <u>(920)469-2436</u>

Info			
Project Name <u>200032 Jagemann Plating</u>	Due Date <u>01/31/2023</u>	Profile <u>x</u>	Quote _____
Project Manager <u>Milewsky, Dan</u>	Return Date _____	Carrier <u>Client Pick Up</u>	Location <u>WI</u>

Trip Blanks

Include Trip Blanks

Bottle Labels

Blank

Pre-Printed No Sample IDs

Pre-Printed With Sample IDs

Bottles

Boxed Cases

Individually Wrapped

Grouped By Sample ID/Matrix

Return Shipping Labels

No Shipper

With Shipper

Misc

<input type="checkbox"/> Sampling Instructions	<input type="checkbox"/> Extra Bubble Wrap
<input type="checkbox"/> Custody Seal	<input type="checkbox"/> Short Hold/Rush Stickers
<input type="checkbox"/> Temp. Blanks	<input type="checkbox"/> DI Water <input style="width: 50px;" type="text" value="Liter(s)"/>
<input type="checkbox"/> Coolers <input style="width: 100px;" type="text"/>	<input type="checkbox"/> USDA Regulated Soils
<input type="checkbox"/> Syringes <input style="width: 100px;" type="text"/>	

COC Options

Number of Blanks

Pre-Printed

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
12	WT	Methane, Ethane, Ethene	3-40ml clear vial HCl-hydrochloric acid	36	0	B-2-309-01VB	
5	WT	TOC by SM 5310C	125mL amber glass, H2SO4	5	0	D-2-148-05DB	

Hazard Shipping Placard In Place : NO

*Sample receiving hours are typically 8am-5pm, but may differ by location. Please check with your Pace Project Manager.

*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.

*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage/disposal.

*Payment term are net 30 days.

*Please include the proposal number on the chain of custody to insure proper billing.

LAB USE:

Ship Date :	<u>01/31/2023</u>
Prepared By:	<u>yh</u>
Verified By:	_____

Sample

CLIENT USE (Optional):

Date Rec'd:	_____
Received By:	_____
Verified By:	_____

Sample Condition Upon Receipt Form (SCUR)

Project #: _____

Client Name: EnviroForensiU

WO#: 40257729

Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____



Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used SR - 120 Type of Ice: Wet Blue Dry None Meltwater Only

Cooler Temperature Uncorr 3.0 / Corr. 3.0

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 2/2/23 Initials: mh
 Labeled By Initials: SKW

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume.		8.
For Analysis: <input type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type <u>Pace Green Bay</u> , Pace IR, Non-Pace		
Containers Intact.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix. <u>W</u>		<u>007 - 1 vial has 1403 instead of 7M21</u> <u>OR - doesn't have sample at the end of (1)</u> <u>placed by time line date mix 2/2/23</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>492</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi



EnvisionAir
1441 Sadler Circle West Drive
Indianapolis, IN 46239
Ph: 317-351-0885
Fax: 317-351-0882
www.envision-air.com

Mr. Wayne Fassbender
Enviroforensics
N16 W. 23390 Stone Ridge Dr
Suite G
Waukesha, WI 53188

February 8, 2023

EnvisionAir Project Number: 2023-75
Client Project Name: 200032 – Jagermann Plating

Dear Mr. Fassbender,

Please find the attached analytical report for the samples received February 2, 2023. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. EnvisionAir looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "David Norris". The signature is fluid and cursive.

David Norris
Project Manager
EnvisionAir, LLC



EnvisionAir
 1441 Sadlier Circle West Drive
 Indianapolis, IN 46239
 Ph: 317-351-0885
 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 20032 - JAGEMANN PLATING
Client Project Manager: WAYNE FASSBENDER
EnvisionAir Project Number: 2023-75

Sample Summary

Canister Pressure / Vacuum

<u>Laboratory Sample Number:</u>	<u>Sample Description:</u>	<u>START</u>	<u>START</u>	<u>End Date</u>	<u>End Time</u>	<u>Date</u>	<u>Time</u>	<u>Initial Field</u>	<u>Final Field</u>	<u>Lab</u>	
		<u>Date</u>	<u>Time</u>								<u>Received</u>
23-326	200032-SSV-13	a	1/30/23	15:31	1/30/23	15:37	2/2/23	11:00	-27	-4	-4



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 Indianapolis, IN 46239
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 Fax: 317-351-0882
 www.envision-air.com

Client Name: ENVIROFORENSICS
Project ID: 20032 - JAGEMANN PLATING
Client Project Manager: WAYNE FASSBENDER
EnvisionAir Project Number: 2023-75

Analytical Method: TO-15
Analytical Batch: 020623AIR

Client Sample ID: 20032-SSV-13
EnvisionAir Sample Number: 23-326
Sample Matrix: AIR

Sample Collection START Date/Time: 1/30/23 15:31
Sample Collection END Date/Time: 1/30/23 15:37
Sample Received Date/Time: 2/2/23 11:00

<u>Compounds</u>	<u>Sample Results ug/m³</u>	<u>Reporting Limit ug/m³</u>	<u>Flag</u>
cis-1,2-Dichloroethene	63,700	63400	1
Tetrachloroethene	56.3	31.9	
trans-1,2-Dichloroethene	10,200	396	2
Trichloroethene	227,000	3440	1
Vinyl Chloride	124,000	4090	1
4-bromofluorobenzene (surrogate)	92%		
Analysis Date/Time:	2-6-23/20:04		
Analyst Initials	tjg		



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 Indianapolis, IN 46239
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 Fax: 317-351-0882
 www.envision-air.com

Analytical Report

TO-15 Quality Control Data

EnvisionAir Batch Number: 020623AIR

<u>Method Blank (MB):</u>	<u>MB Results (ppbv)</u>	<u>Reporting Limit (ppbv)</u>	<u>Flags</u>
cis-1,2-Dichloroethene	< 5	5	
Tetrachloroethene	< 0.47	0.47	
trans-1,2-Dichloroethene	< 10	10	
Trichloroethene	< 0.2	0.2	
Vinyl Chloride	< 0.5	0.5	
4-bromofluorobenzene (surrogate)	90%		
Analysis Date/Time:	2-6-23/10:24		
Analyst Initials	tjg		

<u>LCS/LCSD</u>	<u>LCS Results (ppbv)</u>	<u>LCSD Results (ppbv)</u>	<u>LCS/D Conc(ppbv)</u>	<u>LCS Rec.</u>	<u>LCSD Rec.</u>	<u>RPD</u>	<u>Flag</u>
Vinyl Chloride	9.78	10.4	10	98%	104%	6.1%	
trans-1,2-Dichloroethene	9.61	10.5	10	96%	105%	8.9%	
cis-1,2-Dichloroethene	10.8	10.9	10	108%	109%	0.9%	
Trichloroethene	8.05	9.62	10	81%	96%	17.8%	
Tetrachloroethene	9.65	9.33	10	97%	93%	3.4%	
4-bromofluorobenzene (surrogate)	93%	89%					
Analysis Date/Time:	2-6-23/08:32	2-6-23/09:11					
Analyst Initials	tjg	tjg					



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Flag Number

Comments

- | | |
|---|---|
| 1 | Reported value is from a 3200x dilution. TJG 2/8/23 |
| 2 | Reported value is estimated due to linear range exceedance.
TJG 2/8/23 |

CHAIN OF CUSTODY RECORD

EnvisionAir | 1441 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-0885 | Fax: (317) 351-0882

Client: <u>EnviroForensics</u>	P.O. Number: <u>2023-0036</u>
Report <u>Wassbender</u> Address: <u>@enviroforensics.com</u>	Project Name or Number: <u>20032</u> <u>Jagemann Plating</u>
Report To: <u>Wayne Fassbender</u>	Sampled by: <u>R Brown</u>
Phone: <u>262 290 4001</u>	QA/QC Required: (circle if applicable) Level III Level IV
Invoice Address: <u>accounts</u> <u>payable@enviroforensics.com</u>	Reporting Units needed: (circle) <u>ug/m³</u> mg/m ³ PPBV PPMV
Desired TAT: (Please Circle One) <u>1 day</u> 2 days 3 days <u>Std (5 bus. days)</u>	Media type: 1LC = 1 Liter Canister 6LC = 6 Liter Canister TB = Tedlar Bag TD = Thermal Desorption Tube

REQUESTED PARAMETERS	
TO-15 Full List	<input type="checkbox"/>
TO-15 Short List	<input checked="" type="checkbox"/>



Sampling Type:
 Soil-Gas:
 Sub-Slab:
 Indoor-Air:

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Canister Pressure / Vacuum

Air Sample ID	Media Type <small>(see code above)</small>	Coll. Date <small>(Grab/Comp Start)</small>	Coll. Time <small>(Grab/Comp Start)</small>	Coll. Date <small>(Comp. End)</small>	Coll. Time <small>(Comp. End)</small>				Canister Serial #	Flow Controller Serial #	Initial Field (in. Hg)	Final Field (in. Hg)	Lab Received (in. Hg)	EnvisionAir Sample Number
<u>20032-SSV-13</u>	<u>1LC</u>	<u>1-30-23</u>	<u>1531</u>	<u>1-30-23</u>	<u>1537</u>				<u>83920</u>	<u>0131</u>	<u>-27</u>	<u>-4</u>	<u>-4</u>	<u>23-326</u>

Comments: Short List: PCE, TCE, CDCE, tPCE, VC

Relinquished by:	Date	Time	Received by:	Date	Time
<u>RL</u>	<u>2-1-23</u>	<u>1630</u>	<u>FedEx</u>	<u>2-1-23</u>	<u>1630</u>
			<u>Whauleton</u>	<u>2-2-23</u>	<u>11:00</u>