From: Beggs, Tauren R - DNR
Sent: Thursday, August 24, 2023 1:35 PM
To: Wayne Fassbender
Subject: RE: Jagemann Plating; BRRTS #02-36-555544

Hi Wayne,

Thanks for the update, that sounds good on the work plan preparation and submittal.

Regards,
Tauren

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Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Tauren R. Beggs
Phone: (920) 510-3472
Tauren.Beggs@wisconsin.gov (preferred contact method during work at home)

From: Wayne Fassbender <wfassbender@enviroforensics.com>
Sent: Thursday, August 24, 2023 1:07 PM
To: Beggs, Tauren R - DNR <Tauren.Beggs@wisconsin.gov>
Subject: Jagemann Plating; BRRTS #02-36-555544

Hi Tauren: Just a heads up that I uploaded the results of our recent groundwater sampling event of July to the portal. As I have indicated in the memo, I apologize for missing some of the sampling criteria. As stated, I am working with Mike Jagemann to follow up on your past requests, determine next steps along with short and longer-term costs that he can expect. I am also planning to prepare more helpful figures for reporting. We will be preparing an updated work plan that we intend to submit to you towards the end of September.

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

MEMORANDUM

TO: Tauren Beggs, WDNR

FROM: Wayne Fassbender

COPY: Mike Jagemann, Jagemann Plating
Andy Skwierawski, Halling & Cayo, S.C.

DATE: August 24, 2023

SUBJECT: 3rd Quarterly Post-remedial Sampling Results

Attached is summary **Table 1** containing past results and the most recent July, 2023 groundwater sampling results. This is the third quarterly sampling event since grounwater remedial injections were performed at the property. I have also attached **Figures 1, 3**, and **4** depicting the direction of groundwater flow during the most recent event; the extent of trichloroethene (TCE) in groundwater determined by Robert E. Lee; and the locations of our past injection points, respectively. The complete analytical laboratory report is also attached.

Some of the noticed trends in the data are as follows:

- Groundwater flow continues to be towards the east/northeast.
- Outlier wells MW-1, MW-3, and MW-8 continue to show decreased concentrations indicating that injections within the source areas have weakened the contamination front and have reduced initial concentrations at these predominantly down-gradient locations.
- Source area wells MW-14, TW-20, and TW-21 show continued reductions in the TCE parent product with increases in degradation products. Total organic carbon levels appear adequate as a food source for continued microbial degradation.
- Source area well TW-23 has shown some decreasing trends in both TCE and degradation products.

In addition, down-gradient or side-gradient well TW-22 is stable and likely not affected by the remedial efforts. Well TW-24 has had a slight increase in TCE and reduction in degradation products, but likely not statistically significant at this point. Sumps 1 and 2 had slight increases in TCE concentrations which at this point are not statistically significant.

In addition, Sumps 1 and 2 were sampled for total chromium and hexavalent chromium. As seen in **Table 1**, Sump 1 had a slight increase in total chromium and Sump 2 had a slight decrease in total chromium. The last time these sumps were sampled for hexavalent chromium was 2010 and the concentrations of both total chromium and hexavalent chromium were significantly greater at that time (3 times greater in Sump 1 and several orders of magnitude greater in Sump

2). In 2010, the ratios between total chromium and hexavalent chromium were practically identical; therefore, almost all of the total chromium detected was in the form of hexavalent chromium. The recent results in July indicate that the ratio has changed and is more like 3:1 in Sump 1 and 2:1 in Sump 2, total chromium to hexavalent chromium.

We are in the process of preparing a work plan to address additional site issues that you had discussed in the past with past emploiyees of EnviroForensics and that you brought to my attention. I apologize for some of the items that were missed during past groundwater monitoring events during significant shifts in company staff to include explosive gas measurements in the headspaces of the monitoring wells, and additional sampling for PFAS. Based on past experience, the levels of dissolved methane detected in the groundwater are not likely to create explosive conditions within the well headspace. We will be prepared to perform this additional sampling, along with additional sampling to determine the extent of sub-slab vapor concentrations during the next scheduled groundwater sampling event to take place in late October or early December.

We are currently working with the owner, Mike Jagemann, to assess the additional work need to comply with WDNR requests, and the costs associated with that work. We will present you with an updated work plan in the near future.

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)	Chromium, Hexavalent	Chromium, Total
Enforcement Standard		5	70	100	0.2	850	7					70	100
Preventative Action Limit		0.5	7	20	0.02	85	0.7					7	10
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		
	4/20/2023	< 0.190	3.08	1.69	2.85	6.77	< 0.188	44.8	1,280	7,690	345		
	4/20/2023 DUP	0.395 J	3.03	1.71	3.27	7.14	<0.188	NA	NA	NA	NA		
	7/25/2023	< 0.38	<0.32	<0.5	0.57 J	6.77	< 0.43	50.2	<5	4,865	99.1		
	7/25/2023 DUP	<0.38	0.43 J	0.52 J	1.22	1.27 J	<0.43	NA	NA	NA	NA		
MW-3	6/24/2021 Pre	67.30	54.7	1.2	3.6	<0.3	1.9						
	1/31/2023 Post	39.80	63.7	2.2	5.2	<0.3	1.6			2.3 J			
	4/20/2023	34.1	53.5	1.8	5.65	<0.100	1.47	<4.07	<4.26	62.4	NA		
	7/25/2023	29.6	58	3.5	12.80	<0.43	1.35 J	<0.5	<0.5	<1	NA		
MW-8	6/24/2021 Pre	61.2	586	59.3	111	<3.0	<5.8						
	1/31/2023 Post	23.10	377	57.6	98.3	<1.5	<2.9	3.4 J	2.2 J	42.2			
	4/20/2023	1.15	16.7	0.149 J	13.7	<0.100	1.87	<4.07	<4.26	524	NA		
	7/25/2023	1.97	22.2	<0.5	14.4	<0.43	2.18	<0.5	<0.5	<1	NA		
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		
	4/20/2023	17.1	22,600	544	32,500	<2.50	16.4	430	14,600	5,660	1,550		
	4/20/2023 DUP	<190	9,830	601	46,100	<2.5	20.6	NA	NA	NA	NA		
	7/25/2023	<76	2,650	244 J	17,700	<86	<86	1,167	<0.5	362	3,070		
	7/25/2023 DUP	<380	3,200	<500	20,100	<430	<430	NA	NA	NA	NA		
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			
	4/20/2023	<0.190	0.571	<0.149	0.979	<0.100	<0.188	<4.07	<4.26	<2.91	NA		
	7/25/2023	<7.6	600	23 J	212	<8.6	<8.6	<0.5	<0.5	69.4	NA		
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		
	4/21/2023	210,000	42,900	367	11,300	73.7 J	865	154	1,720	95.2	315		
	7/25/2023	104,000	128,000	3,150	14,800	171.0	196	232	17.2	163	224		
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	983		
	4/21/2023	0.505 J	17.2	4.81	17.0	<0.100	<0.188	52.7	683	12,700	1,080		
	7/25/2023	16.7	36	6.9 J	46	<2.15	<2.15	143	<5	2,423	269		
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			
	4/20/2023	1.08	73.3	9.30	656	0.165 J	<0.188	<4.07	<4.26	74.5	NA		
	7/25/2023	7.4 J	96	5.3 J	220	<4.3	<4.3	<0.5	<0.5	10.8	NA		
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			
	4/20/2023	36.7	260	1.72	34.9	<0.100	17.5	<4.07	<4.26	305	NA		
	7/25/2023	6.7 J	73	<5	11.4	<4.3	<4.3	15.6	<0.5	842	NA		
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	38.6			
	4/20/2023	<0.190	1,760	93.3	527	0.128 J	110	59.3	1,030	138	NA		
	7/25/2023	420	630	37.0	114	<4.3	13.4 J	186	<0.5	19.1	NA		
SUMP-1	6/14/2022 Pre	23.9	26.2	0.88 J	2.5	<0.3	<0.58						186
	1/31/2023 Post	16.5	8.2	<0.53	0.49 J	<0.3	<0.58						
	4/21/2023	53.9	212	6.24	288	1.10	1.87						
	7/26/2023	136	117	<5	5.2 J	<4.3	<4.3					132	407
SUMP-2	6/15/2011 Pre	72.0	45.3	2.0	0.31 J	<0.75	<0.57						520
	1/31/2023 Post	31.6	17.5	<0.53	<0.17	<0.3	<0.58						
	4/21/2023	17.0	13.6	0.468 J	<0.234	0.117 J	<0.188						
	7/26/2023	61	22.6	0.56 J	0.34 J	<0.43	<0.43					159	304

All results are in micrograms per liter µg/l, except TOC reported in mg/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
NA: Not Analyzed

Legend

MW1	Monitoring well
TW21	Temporary monitoring well
PZ3	Piezometer
636.00	Groundwater elevation contour
635.27	Groundwater elevation (feet above mean sea level)

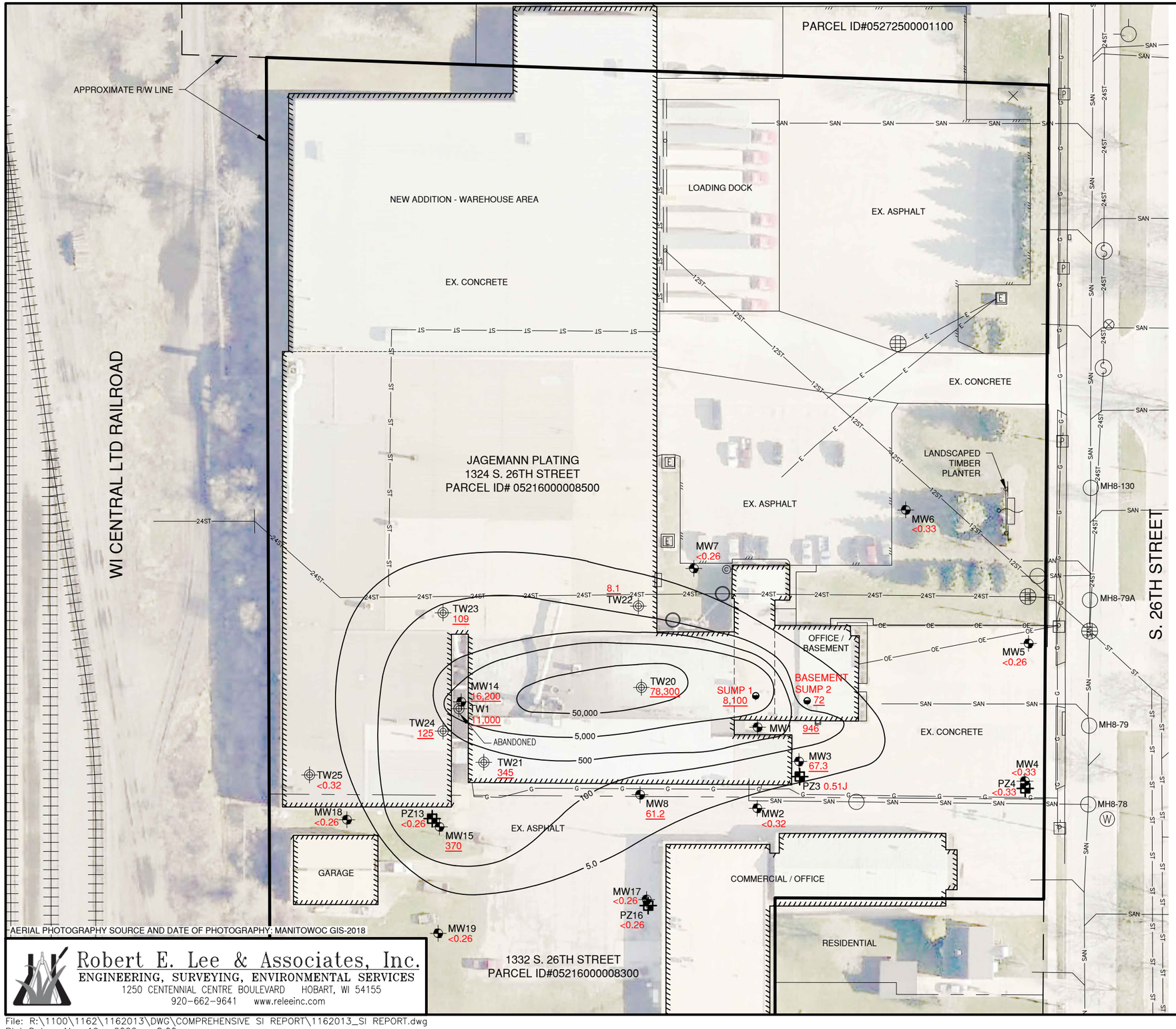
POTENTIOMETRIC SURFACE MAP
JULY 25, 2023

Jagemann Plating Company
1324 South 26th Street
Manitowoc, Wisconsin

Date:	8/18/23
Designed:	EB
Drawn:	EB
Checked:	WF
DWG file:	200032-0225

ENVIRO forensics
825 North Capitol Avenue • Indianapolis, IN 46204
EnviroForensics.com

Figure	1
Project	200032



AERIAL PHOTOGRAPHY SOURCE AND DATE OF PHOTOGRAPHY: MANITOWOC GIS-2018

Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155
920-662-9641 www.releeinc.com

NORTH

0' 60' 120'

SCALE IN FEET

LEGEND

- MW1 — MONITORING WELL LOCATION
- TW1 — TEMPORARY WELL LOCATION
- PZ1 — PIEZOMETER LOCATION
- SUMP
- EX. SANITARY MANHOLE
- EX. STORM SEWER MANHOLE
- EX. STORM SEWER CATCH BASIN
- EX. FIRE HYDRANT
- EX. WATER VALVE
- EX. WATER MANHOLE
- EX. ELECTRIC PEDESTAL
- EX. POWER POLE
- ST — EX. STORM SEWER
- SAN — EX. SANITARY SEWER
- W — EX. WATERMAIN
- G — EX. GAS LINE
- E — EX. ELECTRIC LINE
- T — EX. TELEPHONE LINE
- F — EX. FIBER OPTICS LINE
- PROPERTY LINE
- RIGHT OF WAY LINE
- SITE BOUNDARY LINE
- 500 — TCE ISOCONENTRATION LINE (ug/L)
- 109 — CONCENTRATION OF TCE (ug/L) IN GROUNDWATER
- 8,100 — EXCEEDS CH. NR140 ENFORCEMENT STANDARD (ES= 5 ug/L)
- *125* — EXCEEDS CH. NR140 PREVENTIVE ACTION LIMIT (PAL= 0.5 mg/L)

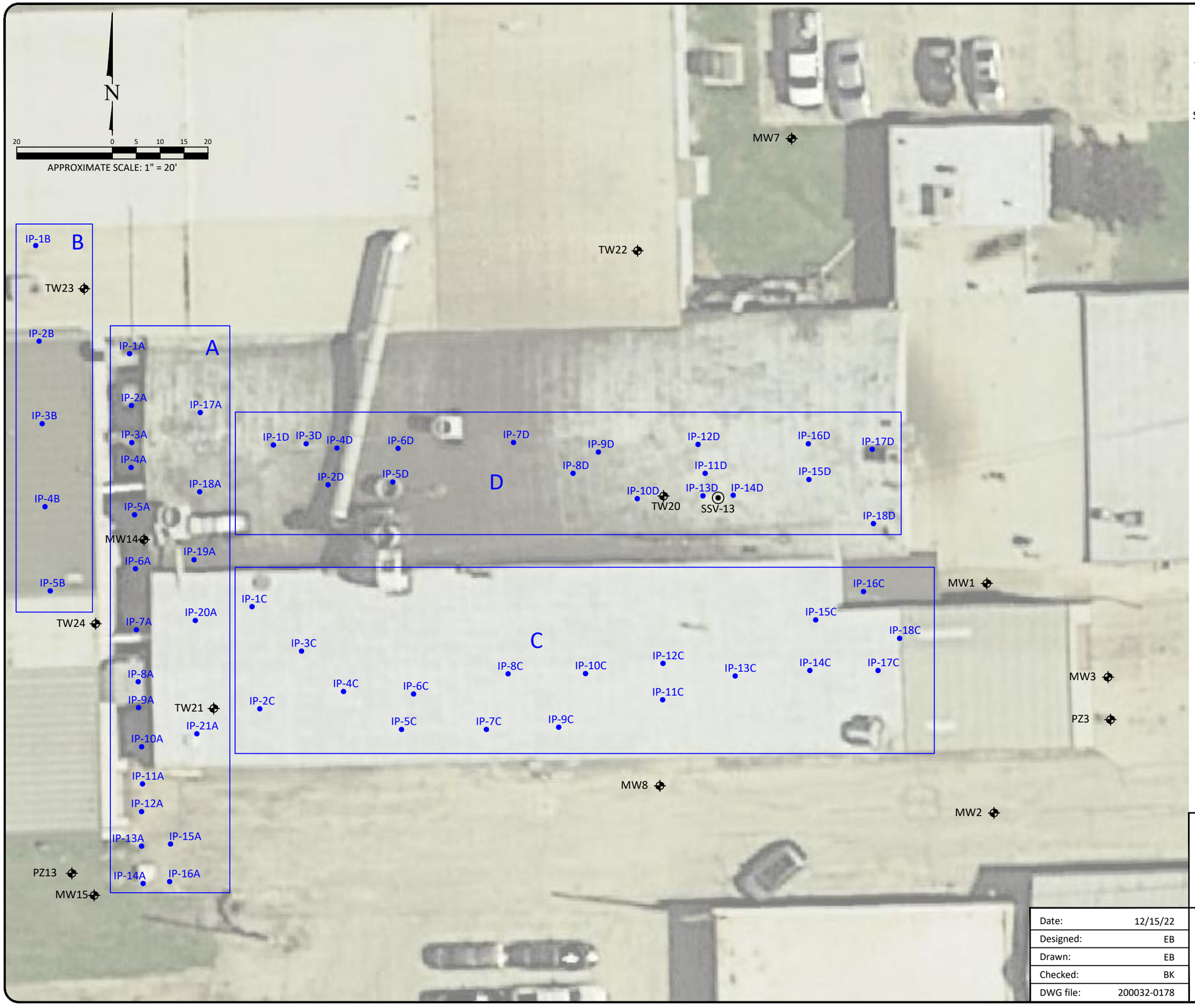
NOTE: CONCENTRATIONS LISTED ARE BASED ON THE MOST RECENT DATA COLLECTED.

JAGEMANN PLATING COMPANY
1324 S. 26TH STREET
MANITOWOC, WI

ISOCONCENTRATIONS OF TCE IN GROUNDWATER

FIGURE 3

File: R:\1100\1162\1162013\DWG\COMPREHENSIVE SI REPORT\1162013_SI REPORT.dwg
Plot Date: May 19, 2022 – 8:00am



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

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

ENVIRO forensics
825 North Capitol Avenue • Indianapolis, IN 46204
EnviroForensics.com

Figure
4

Project
200032

Synergy Environmental Lab, LLC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

NICOLETTE MORRIS
ENVIROFORENSICS
825 N. CAPITOL AVENUE
INDIANAPOLIS, IN 46204

Report Date *15-Aug-23*

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725A
Sample ID 200032-MW-1
Sample Matrix Water
Sample Date 7/25/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
GASES										
Ethane	50.2	ug/l	5	15	10	8015		8/14/2023	ZJW	1
Ethene	< 5	ug/l	5	15	10	8015		8/14/2023	ZJW	1
Methane	4865	ug/l	10	30	10	8015		8/14/2023	ZJW	1
VOC's										
Benzene	< 0.3	ug/l	0.3	1.25	1	8260B		7/27/2023	CJR	1
Bromobenzene	< 0.34	ug/l	0.34	1.4	1	8260B		7/27/2023	CJR	1
Bromodichloromethane	< 0.36	ug/l	0.36	1.47	1	8260B		7/27/2023	CJR	1
Bromoform	< 0.42	ug/l	0.42	1.72	1	8260B		7/27/2023	CJR	1
tert-Butylbenzene	< 0.37	ug/l	0.37	1.49	1	8260B		7/27/2023	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1.34	1	8260B		7/27/2023	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.9	1	8260B		7/27/2023	CJR	1
Carbon Tetrachloride	< 0.34	ug/l	0.34	1.39	1	8260B		7/27/2023	CJR	1
Chlorobenzene	< 0.29	ug/l	0.29	1.19	1	8260B		7/27/2023	CJR	1
Chloroethane	2.76	ug/l	0.62	2.54	1	8260B		7/27/2023	CJR	1
Chloroform	< 0.33	ug/l	0.33	1.33	1	8260B		7/27/2023	CJR	1
Chloromethane	< 0.74	ug/l	0.74	3.03	1	8260B		7/27/2023	CJR	1
2-Chlorotoluene	< 0.34	ug/l	0.34	1.37	1	8260B		7/27/2023	CJR	1
4-Chlorotoluene	< 0.4	ug/l	0.4	1.63	1	8260B		7/27/2023	CJR	1
1,2-Dibromo-3-chloropropane	< 0.74	ug/l	0.74	3.01	1	8260B		7/27/2023	CJR	1
Dibromochloromethane	< 0.36	ug/l	0.36	1.46	1	8260B		7/27/2023	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	2.01	1	8260B		7/27/2023	CJR	1
1,3-Dichlorobenzene	< 0.35	ug/l	0.35	1.44	1	8260B		7/27/2023	CJR	1
1,2-Dichlorobenzene	< 0.4	ug/l	0.4	1.65	1	8260B		7/27/2023	CJR	1
Dichlorodifluoromethane	< 0.3	ug/l	0.3	1.23	1	8260B		7/27/2023	CJR	1
1,2-Dichloroethane	< 0.43	ug/l	0.43	1.75	1	8260B		7/27/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725A
Sample ID 200032-MW-1
Sample Matrix Water
Sample Date 7/25/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1-Dichloroethane	0.93 "J"	ug/l	0.43	1.74	1	8260B		7/27/2023	CJR	1
1,1-Dichloroethene	< 0.43	ug/l	0.43	1.76	1	8260B		7/27/2023	CJR	1
cis-1,2-Dichloroethene	< 0.32	ug/l	0.32	1.29	1	8260B		7/27/2023	CJR	1
trans-1,2-Dichloroethene	< 0.5	ug/l	0.5	2.02	1	8260B		7/27/2023	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.58	1	8260B		7/27/2023	CJR	1
1,3-Dichloropropane	< 0.38	ug/l	0.38	1.55	1	8260B		7/27/2023	CJR	1
trans-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		7/27/2023	CJR	1
cis-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		7/27/2023	CJR	1
Di-isopropyl ether	< 0.48	ug/l	0.48	1.96	1	8260B		7/27/2023	CJR	1
EDB (1,2-Dibromoethane)	< 0.39	ug/l	0.39	1.59	1	8260B		7/27/2023	CJR	1
Ethylbenzene	< 0.33	ug/l	0.33	1.37	1	8260B		7/27/2023	CJR	1
Hexachlorobutadiene	< 0.81	ug/l	0.81	3.44	1	8260B		7/27/2023	CJR	1
Isopropylbenzene	< 0.34	ug/l	0.34	1.38	1	8260B		7/27/2023	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.91	1	8260B		7/27/2023	CJR	1
Methylene chloride	< 0.79	ug/l	0.79	3.23	1	8260B		7/27/2023	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.91	1	8260B		7/27/2023	CJR	1
Naphthalene	< 1.4	ug/l	1.4	5.56	1	8260B		7/27/2023	CJR	1
n-Propylbenzene	< 0.39	ug/l	0.39	1.6	1	8260B		7/27/2023	CJR	1
1,1,2,2-Tetrachloroethane	< 0.43	ug/l	0.43	1.77	1	8260B		7/27/2023	CJR	1
1,1,1,2-Tetrachloroethane	< 0.55	ug/l	0.55	2.25	1	8260B		7/27/2023	CJR	1
Tetrachloroethene	< 0.47	ug/l	0.47	1.91	1	8260B		7/27/2023	CJR	1
Toluene	< 0.33	ug/l	0.33	1.35	1	8260B		7/27/2023	CJR	1
1,2,4-Trichlorobenzene	< 0.63	ug/l	0.63	2.57	1	8260B		7/27/2023	CJR	1
1,2,3-Trichlorobenzene	< 1.4	ug/l	1.4	5.94	1	8260B		7/27/2023	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.34	1	8260B		7/27/2023	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.72	1	8260B		7/27/2023	CJR	1
Trichloroethene (TCE)	< 0.38	ug/l	0.38	1.55	1	8260B		7/27/2023	CJR	1
Trichlorofluoromethane	< 0.33	ug/l	0.33	1.35	1	8260B		7/27/2023	CJR	1
1,2,4-Trimethylbenzene	< 0.35	ug/l	0.35	1.44	1	8260B		7/27/2023	CJR	1
1,3,5-Trimethylbenzene	< 0.41	ug/l	0.41	1.66	1	8260B		7/27/2023	CJR	1
Vinyl Chloride	0.57 "J"	ug/l	0.15	0.61	1	8260B		7/27/2023	CJR	1
m&p-Xylene	< 0.64	ug/l	0.64	2.63	1	8260B		7/27/2023	CJR	1
o-Xylene	< 0.37	ug/l	0.37	1.51	1	8260B		7/27/2023	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		7/27/2023	CJR	1
SUR - 4-Bromofluorobenzene	92	REC %			1	8260B		7/27/2023	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		7/27/2023	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		7/27/2023	CJR	1

Wet Chemistry

General

Total Organic Carbon	99.1	mg/l	2.8	9.4	10	SM 5310B		8/4/2023	SL	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725B
Sample ID 200032-MW-3
Sample Matrix Water
Sample Date 7/25/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
GASES										
Ethane	< 0.5	ug/l	0.5	1.5	1	8015		8/14/2023	ZJW	1
Ethene	< 0.5	ug/l	0.5	1.5	1	8015		8/14/2023	ZJW	1
Methane	< 1	ug/l	1	3	1	8015		8/14/2023	ZJW	1
VOC's										
Benzene	< 0.3	ug/l	0.3	1.25	1	8260B		7/27/2023	CJR	1
Bromobenzene	< 0.34	ug/l	0.34	1.4	1	8260B		7/27/2023	CJR	1
Bromodichloromethane	< 0.36	ug/l	0.36	1.47	1	8260B		7/27/2023	CJR	1
Bromoform	< 0.42	ug/l	0.42	1.72	1	8260B		7/27/2023	CJR	1
tert-Butylbenzene	< 0.37	ug/l	0.37	1.49	1	8260B		7/27/2023	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1.34	1	8260B		7/27/2023	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.9	1	8260B		7/27/2023	CJR	1
Carbon Tetrachloride	< 0.34	ug/l	0.34	1.39	1	8260B		7/27/2023	CJR	1
Chlorobenzene	< 0.29	ug/l	0.29	1.19	1	8260B		7/27/2023	CJR	1
Chloroethane	< 0.62	ug/l	0.62	2.54	1	8260B		7/27/2023	CJR	1
Chloroform	< 0.33	ug/l	0.33	1.33	1	8260B		7/27/2023	CJR	1
Chloromethane	< 0.74	ug/l	0.74	3.03	1	8260B		7/27/2023	CJR	1
2-Chlorotoluene	< 0.34	ug/l	0.34	1.37	1	8260B		7/27/2023	CJR	1
4-Chlorotoluene	< 0.4	ug/l	0.4	1.63	1	8260B		7/27/2023	CJR	1
1,2-Dibromo-3-chloropropane	< 0.74	ug/l	0.74	3.01	1	8260B		7/27/2023	CJR	1
Dibromochloromethane	< 0.36	ug/l	0.36	1.46	1	8260B		7/27/2023	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	2.01	1	8260B		7/27/2023	CJR	1
1,3-Dichlorobenzene	< 0.35	ug/l	0.35	1.44	1	8260B		7/27/2023	CJR	1
1,2-Dichlorobenzene	< 0.4	ug/l	0.4	1.65	1	8260B		7/27/2023	CJR	1
Dichlorodifluoromethane	5.4	ug/l	0.3	1.23	1	8260B		7/27/2023	CJR	1
1,2-Dichloroethane	< 0.43	ug/l	0.43	1.75	1	8260B		7/27/2023	CJR	1
1,1-Dichloroethane	< 0.43	ug/l	0.43	1.74	1	8260B		7/27/2023	CJR	1
1,1-Dichloroethene	1.35 "J"	ug/l	0.43	1.76	1	8260B		7/27/2023	CJR	1
cis-1,2-Dichloroethene	58	ug/l	0.32	1.29	1	8260B		7/27/2023	CJR	1
trans-1,2-Dichloroethene	3.5	ug/l	0.5	2.02	1	8260B		7/27/2023	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.58	1	8260B		7/27/2023	CJR	1
1,3-Dichloropropane	< 0.38	ug/l	0.38	1.55	1	8260B		7/27/2023	CJR	1
trans-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		7/27/2023	CJR	1
cis-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		7/27/2023	CJR	1
Di-isopropyl ether	< 0.48	ug/l	0.48	1.96	1	8260B		7/27/2023	CJR	1
EDB (1,2-Dibromoethane)	< 0.39	ug/l	0.39	1.59	1	8260B		7/27/2023	CJR	1
Ethylbenzene	< 0.33	ug/l	0.33	1.37	1	8260B		7/27/2023	CJR	1
Hexachlorobutadiene	< 0.81	ug/l	0.81	3.44	1	8260B		7/27/2023	CJR	1
Isopropylbenzene	< 0.34	ug/l	0.34	1.38	1	8260B		7/27/2023	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.91	1	8260B		7/27/2023	CJR	1
Methylene chloride	< 0.79	ug/l	0.79	3.23	1	8260B		7/27/2023	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.91	1	8260B		7/27/2023	CJR	1
Naphthalene	< 1.4	ug/l	1.4	5.56	1	8260B		7/27/2023	CJR	1
n-Propylbenzene	< 0.39	ug/l	0.39	1.6	1	8260B		7/27/2023	CJR	1
1,1,2,2-Tetrachloroethane	< 0.43	ug/l	0.43	1.77	1	8260B		7/27/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725B
Sample ID 200032-MW-3
Sample Matrix Water
Sample Date 7/25/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,1,2-Tetrachloroethane	< 0.55	ug/l	0.55	2.25	1	8260B		7/27/2023	CJR	1
Tetrachloroethene	< 0.47	ug/l	0.47	1.91	1	8260B		7/27/2023	CJR	1
Toluene	< 0.33	ug/l	0.33	1.35	1	8260B		7/27/2023	CJR	1
1,2,4-Trichlorobenzene	< 0.63	ug/l	0.63	2.57	1	8260B		7/27/2023	CJR	1
1,2,3-Trichlorobenzene	< 1.4	ug/l	1.4	5.94	1	8260B		7/27/2023	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.34	1	8260B		7/27/2023	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.72	1	8260B		7/27/2023	CJR	1
Trichloroethene (TCE)	29.6	ug/l	0.38	1.55	1	8260B		7/27/2023	CJR	1
Trichlorofluoromethane	< 0.33	ug/l	0.33	1.35	1	8260B		7/27/2023	CJR	1
1,2,4-Trimethylbenzene	< 0.35	ug/l	0.35	1.44	1	8260B		7/27/2023	CJR	1
1,3,5-Trimethylbenzene	< 0.41	ug/l	0.41	1.66	1	8260B		7/27/2023	CJR	1
Vinyl Chloride	12.8	ug/l	0.15	0.61	1	8260B		7/27/2023	CJR	1
m&p-Xylene	< 0.64	ug/l	0.64	2.63	1	8260B		7/27/2023	CJR	1
o-Xylene	< 0.37	ug/l	0.37	1.51	1	8260B		7/27/2023	CJR	1
SUR - 1,2-Dichloroethane-d4	92	REC %			1	8260B		7/27/2023	CJR	1
SUR - 4-Bromofluorobenzene	89	REC %			1	8260B		7/27/2023	CJR	1
SUR - Dibromofluoromethane	94	REC %			1	8260B		7/27/2023	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		7/27/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725C
Sample ID 200032-MW-8
Sample Matrix Water
Sample Date 7/25/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
GASES										
Ethane	< 0.5	ug/l	0.5	1.5	1	8015		8/14/2023	ZJW	1
Ethene	< 0.5	ug/l	0.5	1.5	1	8015		8/14/2023	ZJW	1
Methane	< 1	ug/l	1	3	1	8015		8/14/2023	ZJW	1
VOC's										
Benzene	< 0.3	ug/l	0.3	1.25	1	8260B		7/31/2023	CJR	1
Bromobenzene	< 0.34	ug/l	0.34	1.4	1	8260B		7/31/2023	CJR	1
Bromodichloromethane	< 0.36	ug/l	0.36	1.47	1	8260B		7/31/2023	CJR	1
Bromoform	< 0.42	ug/l	0.42	1.72	1	8260B		7/31/2023	CJR	1
tert-Butylbenzene	< 0.37	ug/l	0.37	1.49	1	8260B		7/31/2023	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1.34	1	8260B		7/31/2023	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.9	1	8260B		7/31/2023	CJR	1
Carbon Tetrachloride	< 0.34	ug/l	0.34	1.39	1	8260B		7/31/2023	CJR	1
Chlorobenzene	< 0.29	ug/l	0.29	1.19	1	8260B		7/31/2023	CJR	1
Chloroethane	< 0.62	ug/l	0.62	2.54	1	8260B		7/31/2023	CJR	1
Chloroform	< 0.33	ug/l	0.33	1.33	1	8260B		7/31/2023	CJR	1
Chloromethane	< 0.74	ug/l	0.74	3.03	1	8260B		7/31/2023	CJR	1
2-Chlorotoluene	< 0.34	ug/l	0.34	1.37	1	8260B		7/31/2023	CJR	1
4-Chlorotoluene	< 0.4	ug/l	0.4	1.63	1	8260B		7/31/2023	CJR	1
1,2-Dibromo-3-chloropropane	< 0.74	ug/l	0.74	3.01	1	8260B		7/31/2023	CJR	1
Dibromochloromethane	< 0.36	ug/l	0.36	1.46	1	8260B		7/31/2023	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	2.01	1	8260B		7/31/2023	CJR	1
1,3-Dichlorobenzene	< 0.35	ug/l	0.35	1.44	1	8260B		7/31/2023	CJR	1
1,2-Dichlorobenzene	< 0.4	ug/l	0.4	1.65	1	8260B		7/31/2023	CJR	1
Dichlorodifluoromethane	9.0	ug/l	0.3	1.23	1	8260B		7/31/2023	CJR	1
1,2-Dichloroethane	< 0.43	ug/l	0.43	1.75	1	8260B		7/31/2023	CJR	1
1,1-Dichloroethane	< 0.43	ug/l	0.43	1.74	1	8260B		7/31/2023	CJR	1
1,1-Dichloroethene	2.18	ug/l	0.43	1.76	1	8260B		7/31/2023	CJR	1
cis-1,2-Dichloroethene	22.2	ug/l	0.32	1.29	1	8260B		7/31/2023	CJR	1
trans-1,2-Dichloroethene	< 0.5	ug/l	0.5	2.02	1	8260B		7/31/2023	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.58	1	8260B		7/31/2023	CJR	1
1,3-Dichloropropane	< 0.38	ug/l	0.38	1.55	1	8260B		7/31/2023	CJR	1
trans-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		7/31/2023	CJR	1
cis-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		7/31/2023	CJR	1
Di-isopropyl ether	< 0.48	ug/l	0.48	1.96	1	8260B		7/31/2023	CJR	1
EDB (1,2-Dibromoethane)	< 0.39	ug/l	0.39	1.59	1	8260B		7/31/2023	CJR	1
Ethylbenzene	< 0.33	ug/l	0.33	1.37	1	8260B		7/31/2023	CJR	1
Hexachlorobutadiene	< 0.81	ug/l	0.81	3.44	1	8260B		7/31/2023	CJR	1
Isopropylbenzene	< 0.34	ug/l	0.34	1.38	1	8260B		7/31/2023	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.91	1	8260B		7/31/2023	CJR	1
Methylene chloride	< 0.79	ug/l	0.79	3.23	1	8260B		7/31/2023	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.91	1	8260B		7/31/2023	CJR	1
Naphthalene	< 1.4	ug/l	1.4	5.56	1	8260B		7/31/2023	CJR	1
n-Propylbenzene	< 0.39	ug/l	0.39	1.6	1	8260B		7/31/2023	CJR	1
1,1,2,2-Tetrachloroethane	< 0.43	ug/l	0.43	1.77	1	8260B		7/31/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725C
Sample ID 200032-MW-8
Sample Matrix Water
Sample Date 7/25/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,1,2-Tetrachloroethane	< 0.55	ug/l	0.55	2.25	1	8260B		7/31/2023	CJR	1
Tetrachloroethene	< 0.47	ug/l	0.47	1.91	1	8260B		7/31/2023	CJR	1
Toluene	< 0.33	ug/l	0.33	1.35	1	8260B		7/31/2023	CJR	1
1,2,4-Trichlorobenzene	< 0.63	ug/l	0.63	2.57	1	8260B		7/31/2023	CJR	1
1,2,3-Trichlorobenzene	< 1.4	ug/l	1.4	5.94	1	8260B		7/31/2023	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.34	1	8260B		7/31/2023	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.72	1	8260B		7/31/2023	CJR	1
Trichloroethene (TCE)	1.97	ug/l	0.38	1.55	1	8260B		7/31/2023	CJR	1
Trichlorofluoromethane	< 0.33	ug/l	0.33	1.35	1	8260B		7/31/2023	CJR	1
1,2,4-Trimethylbenzene	< 0.35	ug/l	0.35	1.44	1	8260B		7/31/2023	CJR	1
1,3,5-Trimethylbenzene	< 0.41	ug/l	0.41	1.66	1	8260B		7/31/2023	CJR	1
Vinyl Chloride	14.4	ug/l	0.15	0.61	1	8260B		7/31/2023	CJR	1
m&p-Xylene	< 0.64	ug/l	0.64	2.63	1	8260B		7/31/2023	CJR	1
o-Xylene	< 0.37	ug/l	0.37	1.51	1	8260B		7/31/2023	CJR	1
SUR - Toluene-d8	111	REC %			1	8260B		7/31/2023	CJR	1
SUR - 1,2-Dichloroethane-d4	109	REC %			1	8260B		7/31/2023	CJR	1
SUR - 4-Bromofluorobenzene	124	REC %			1	8260B		7/31/2023	CJR	1
SUR - Dibromofluoromethane	116	REC %			1	8260B		7/31/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725D
Sample ID 200032-MW-14
Sample Matrix Water
Sample Date 7/25/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
GASES										
Ethane	1167	ug/l	0.5	1.5	1	8015		8/14/2023	ZJW	1
Ethene	< 0.5	ug/l	0.5	1.5	1	8015		8/14/2023	ZJW	1
Methane	362	ug/l	1	3	1	8015		8/14/2023	ZJW	1
VOC's										
Benzene	< 60	ug/l	60	250	200	8260B		8/2/2023	CJR	1
Bromobenzene	< 68	ug/l	68	280	200	8260B		8/2/2023	CJR	1
Bromodichloromethane	< 72	ug/l	72	294	200	8260B		8/2/2023	CJR	1
Bromoform	< 84	ug/l	84	344	200	8260B		8/2/2023	CJR	1
tert-Butylbenzene	< 74	ug/l	74	298	200	8260B		8/2/2023	CJR	1
sec-Butylbenzene	< 66	ug/l	66	268	200	8260B		8/2/2023	CJR	1
n-Butylbenzene	< 142	ug/l	142	580	200	8260B		8/2/2023	CJR	1
Carbon Tetrachloride	< 68	ug/l	68	278	200	8260B		8/2/2023	CJR	1
Chlorobenzene	< 58	ug/l	58	238	200	8260B		8/2/2023	CJR	1
Chloroethane	< 124	ug/l	124	508	200	8260B		8/2/2023	CJR	1
Chloroform	< 66	ug/l	66	266	200	8260B		8/2/2023	CJR	1
Chloromethane	< 148	ug/l	148	606	200	8260B		8/2/2023	CJR	1
2-Chlorotoluene	< 68	ug/l	68	274	200	8260B		8/2/2023	CJR	1
4-Chlorotoluene	< 80	ug/l	80	326	200	8260B		8/2/2023	CJR	1
1,2-Dibromo-3-chloropropane	< 148	ug/l	148	602	200	8260B		8/2/2023	CJR	1
Dibromochloromethane	< 72	ug/l	72	292	200	8260B		8/2/2023	CJR	1
1,4-Dichlorobenzene	< 98	ug/l	98	402	200	8260B		8/2/2023	CJR	1
1,3-Dichlorobenzene	< 70	ug/l	70	288	200	8260B		8/2/2023	CJR	1
1,2-Dichlorobenzene	< 80	ug/l	80	330	200	8260B		8/2/2023	CJR	1
Dichlorodifluoromethane	< 60	ug/l	60	246	200	8260B		8/2/2023	CJR	1
1,2-Dichloroethane	< 86	ug/l	86	350	200	8260B		8/2/2023	CJR	1
1,1-Dichloroethane	< 86	ug/l	86	348	200	8260B		8/2/2023	CJR	1
1,1-Dichloroethene	< 86	ug/l	86	352	200	8260B		8/2/2023	CJR	1
cis-1,2-Dichloroethene	2650	ug/l	64	258	200	8260B		8/2/2023	CJR	1
trans-1,2-Dichloroethene	244 "J"	ug/l	100	404	200	8260B		8/2/2023	CJR	1
1,2-Dichloropropane	< 78	ug/l	78	316	200	8260B		8/2/2023	CJR	1
1,3-Dichloropropane	< 76	ug/l	76	310	200	8260B		8/2/2023	CJR	1
trans-1,3-Dichloropropene	< 82	ug/l	82	334	200	8260B		8/2/2023	CJR	1
cis-1,3-Dichloropropene	< 82	ug/l	82	334	200	8260B		8/2/2023	CJR	1
Di-isopropyl ether	< 96	ug/l	96	392	200	8260B		8/2/2023	CJR	1
EDB (1,2-Dibromoethane)	< 78	ug/l	78	318	200	8260B		8/2/2023	CJR	1
Ethylbenzene	< 66	ug/l	66	274	200	8260B		8/2/2023	CJR	1
Hexachlorobutadiene	< 162	ug/l	162	688	200	8260B		8/2/2023	CJR	1
Isopropylbenzene	< 68	ug/l	68	276	200	8260B		8/2/2023	CJR	1
p-Isopropyltoluene	< 94	ug/l	94	382	200	8260B		8/2/2023	CJR	1
Methylene chloride	< 158	ug/l	158	646	200	8260B		8/2/2023	CJR	1
Methyl tert-butyl ether (MTBE)	< 94	ug/l	94	382	200	8260B		8/2/2023	CJR	1
Naphthalene	< 280	ug/l	280	1112	200	8260B		8/2/2023	CJR	1
n-Propylbenzene	< 78	ug/l	78	320	200	8260B		8/2/2023	CJR	1
1,1,2,2-Tetrachloroethane	< 86	ug/l	86	354	200	8260B		8/2/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725D
Sample ID 200032-MW-14
Sample Matrix Water
Sample Date 7/25/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,1,2-Tetrachloroethane	< 110	ug/l	110	450	200	8260B		8/2/2023	CJR	1
Tetrachloroethene	< 470	ug/l	470	1910	1000	8260B		7/28/2023	CJR	1
Toluene	< 66	ug/l	66	270	200	8260B		8/2/2023	CJR	1
1,2,4-Trichlorobenzene	< 126	ug/l	126	514	200	8260B		8/2/2023	CJR	1
1,2,3-Trichlorobenzene	< 280	ug/l	280	1188	200	8260B		8/2/2023	CJR	1
1,1,1-Trichloroethane	< 66	ug/l	66	268	200	8260B		8/2/2023	CJR	1
1,1,2-Trichloroethane	< 84	ug/l	84	344	200	8260B		8/2/2023	CJR	1
Trichloroethene (TCE)	< 76	ug/l	76	310	200	8260B		8/2/2023	CJR	1
Trichlorofluoromethane	< 66	ug/l	66	270	200	8260B		8/2/2023	CJR	1
1,2,4-Trimethylbenzene	< 70	ug/l	70	288	200	8260B		8/2/2023	CJR	1
1,3,5-Trimethylbenzene	< 82	ug/l	82	332	200	8260B		8/2/2023	CJR	1
Vinyl Chloride	17700	ug/l	30	122	200	8260B		8/2/2023	CJR	1
m&p-Xylene	134 "J"	ug/l	128	526	200	8260B		8/2/2023	CJR	1
o-Xylene	< 74	ug/l	74	302	200	8260B		8/2/2023	CJR	1
SUR - 4-Bromofluorobenzene	87	REC %			200	8260B		8/2/2023	CJR	1
SUR - Dibromofluoromethane	96	REC %			200	8260B		8/2/2023	CJR	1
SUR - Toluene-d8	101	REC %			200	8260B		8/2/2023	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			200	8260B		8/2/2023	CJR	1
Wet Chemistry										
General										
Total Organic Carbon	3070	mg/l	140	470	500	SM 5310B		8/4/2023	SL	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725E
Sample ID 200032-MW-15
Sample Matrix Water
Sample Date 7/25/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
GASES										
Ethane	< 0.5	ug/l	0.5	1.5	1	8015		8/14/2023	ZJW	1
Ethene	< 0.5	ug/l	0.5	1.5	1	8015		8/14/2023	ZJW	1
Methane	69.4	ug/l	1	3	1	8015		8/14/2023	ZJW	1
VOC's										
Benzene	< 6	ug/l	6	25	20	8260B		7/27/2023	CJR	1
Bromobenzene	< 6.8	ug/l	6.8	28	20	8260B		7/27/2023	CJR	1
Bromodichloromethane	< 7.2	ug/l	7.2	29.4	20	8260B		7/27/2023	CJR	1
Bromoform	< 8.4	ug/l	8.4	34.4	20	8260B		7/27/2023	CJR	1
tert-Butylbenzene	< 7.4	ug/l	7.4	29.8	20	8260B		7/27/2023	CJR	1
sec-Butylbenzene	< 6.6	ug/l	6.6	26.8	20	8260B		7/27/2023	CJR	1
n-Butylbenzene	< 14.2	ug/l	14.2	58	20	8260B		7/27/2023	CJR	1
Carbon Tetrachloride	< 6.8	ug/l	6.8	27.8	20	8260B		7/27/2023	CJR	1
Chlorobenzene	< 5.8	ug/l	5.8	23.8	20	8260B		7/27/2023	CJR	1
Chloroethane	< 12.4	ug/l	12.4	50.8	20	8260B		7/27/2023	CJR	1
Chloroform	< 6.6	ug/l	6.6	26.6	20	8260B		7/27/2023	CJR	1
Chloromethane	< 14.8	ug/l	14.8	60.6	20	8260B		7/27/2023	CJR	1
2-Chlorotoluene	< 6.8	ug/l	6.8	27.4	20	8260B		7/27/2023	CJR	1
4-Chlorotoluene	< 8	ug/l	8	32.6	20	8260B		7/27/2023	CJR	1
1,2-Dibromo-3-chloropropane	< 14.8	ug/l	14.8	60.2	20	8260B		7/27/2023	CJR	1
Dibromochloromethane	< 7.2	ug/l	7.2	29.2	20	8260B		7/27/2023	CJR	1
1,4-Dichlorobenzene	< 9.8	ug/l	9.8	40.2	20	8260B		7/27/2023	CJR	1
1,3-Dichlorobenzene	< 7	ug/l	7	28.8	20	8260B		7/27/2023	CJR	1
1,2-Dichlorobenzene	< 8	ug/l	8	33	20	8260B		7/27/2023	CJR	1
Dichlorodifluoromethane	< 6	ug/l	6	24.6	20	8260B		7/27/2023	CJR	1
1,2-Dichloroethane	< 8.6	ug/l	8.6	35	20	8260B		7/27/2023	CJR	1
1,1-Dichloroethane	< 8.6	ug/l	8.6	34.8	20	8260B		7/27/2023	CJR	1
1,1-Dichloroethene	< 8.6	ug/l	8.6	35.2	20	8260B		7/27/2023	CJR	1
cis-1,2-Dichloroethene	600	ug/l	6.4	25.8	20	8260B		7/27/2023	CJR	1
trans-1,2-Dichloroethene	23 "J"	ug/l	10	40.4	20	8260B		7/27/2023	CJR	1
1,2-Dichloropropane	< 7.8	ug/l	7.8	31.6	20	8260B		7/27/2023	CJR	1
1,3-Dichloropropane	< 7.6	ug/l	7.6	31	20	8260B		7/27/2023	CJR	1
trans-1,3-Dichloropropene	< 8.2	ug/l	8.2	33.4	20	8260B		7/27/2023	CJR	1
cis-1,3-Dichloropropene	< 8.2	ug/l	8.2	33.4	20	8260B		7/27/2023	CJR	1
Di-isopropyl ether	< 9.6	ug/l	9.6	39.2	20	8260B		7/27/2023	CJR	1
EDB (1,2-Dibromoethane)	< 7.8	ug/l	7.8	31.8	20	8260B		7/27/2023	CJR	1
Ethylbenzene	< 6.6	ug/l	6.6	27.4	20	8260B		7/27/2023	CJR	1
Hexachlorobutadiene	< 16.2	ug/l	16.2	68.8	20	8260B		7/27/2023	CJR	1
Isopropylbenzene	< 6.8	ug/l	6.8	27.6	20	8260B		7/27/2023	CJR	1
p-Isopropyltoluene	< 9.4	ug/l	9.4	38.2	20	8260B		7/27/2023	CJR	1
Methylene chloride	< 15.8	ug/l	15.8	64.6	20	8260B		7/27/2023	CJR	1
Methyl tert-butyl ether (MTBE)	< 9.4	ug/l	9.4	38.2	20	8260B		7/27/2023	CJR	1
Naphthalene	< 28	ug/l	28	111.2	20	8260B		7/27/2023	CJR	1
n-Propylbenzene	< 7.8	ug/l	7.8	32	20	8260B		7/27/2023	CJR	1
1,1,2,2-Tetrachloroethane	< 8.6	ug/l	8.6	35.4	20	8260B		7/27/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725E
Sample ID 200032-MW-15
Sample Matrix Water
Sample Date 7/25/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,1,2-Tetrachloroethane	< 11	ug/l	11	45	20	8260B		7/27/2023	CJR	1
Tetrachloroethene	< 9.4	ug/l	9.4	38.2	20	8260B		7/27/2023	CJR	1
Toluene	< 6.6	ug/l	6.6	27	20	8260B		7/27/2023	CJR	1
1,2,4-Trichlorobenzene	< 12.6	ug/l	12.6	51.4	20	8260B		7/27/2023	CJR	1
1,2,3-Trichlorobenzene	< 28	ug/l	28	118.8	20	8260B		7/27/2023	CJR	1
1,1,1-Trichloroethane	< 6.6	ug/l	6.6	26.8	20	8260B		7/27/2023	CJR	1
1,1,2-Trichloroethane	< 8.4	ug/l	8.4	34.4	20	8260B		7/27/2023	CJR	1
Trichloroethene (TCE)	< 7.6	ug/l	7.6	31	20	8260B		7/27/2023	CJR	1
Trichlorofluoromethane	< 6.6	ug/l	6.6	27	20	8260B		7/27/2023	CJR	1
1,2,4-Trimethylbenzene	< 7	ug/l	7	28.8	20	8260B		7/27/2023	CJR	1
1,3,5-Trimethylbenzene	< 8.2	ug/l	8.2	33.2	20	8260B		7/27/2023	CJR	1
Vinyl Chloride	212	ug/l	3	12.2	20	8260B		7/27/2023	CJR	1
m&p-Xylene	< 12.8	ug/l	12.8	52.6	20	8260B		7/27/2023	CJR	1
o-Xylene	< 7.4	ug/l	7.4	30.2	20	8260B		7/27/2023	CJR	1
SUR - 1,2-Dichloroethane-d4	108	REC %			20	8260B		7/27/2023	CJR	1
SUR - 4-Bromofluorobenzene	91	REC %			20	8260B		7/27/2023	CJR	1
SUR - Dibromofluoromethane	97	REC %			20	8260B		7/27/2023	CJR	1
SUR - Toluene-d8	105	REC %			20	8260B		7/27/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725F
Sample ID 200032-TW20
Sample Matrix Water
Sample Date 7/25/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
GASES										
Ethane	232	ug/l	0.5	1.5	1	8015		8/14/2023	ZJW	1
Ethene	17.2	ug/l	0.5	1.5	1	8015		8/14/2023	ZJW	1
Methane	163	ug/l	1	3	1	8015		8/14/2023	ZJW	1
VOC's										
Benzene	< 15	ug/l	15	62.5	50	8260B		7/27/2023	CJR	1
Bromobenzene	< 17	ug/l	17	70	50	8260B		7/27/2023	CJR	1
Bromodichloromethane	< 18	ug/l	18	73.5	50	8260B		7/27/2023	CJR	1
Bromoform	< 21	ug/l	21	86	50	8260B		7/27/2023	CJR	1
tert-Butylbenzene	< 18.5	ug/l	18.5	74.5	50	8260B		7/27/2023	CJR	1
sec-Butylbenzene	< 16.5	ug/l	16.5	67	50	8260B		7/27/2023	CJR	1
n-Butylbenzene	< 35.5	ug/l	35.5	145	50	8260B		7/27/2023	CJR	1
Carbon Tetrachloride	< 17	ug/l	17	69.5	50	8260B		7/27/2023	CJR	1
Chlorobenzene	< 14.5	ug/l	14.5	59.5	50	8260B		7/27/2023	CJR	1
Chloroethane	< 31	ug/l	31	127	50	8260B		7/27/2023	CJR	1
Chloroform	< 16.5	ug/l	16.5	66.5	50	8260B		7/27/2023	CJR	1
Chloromethane	< 37	ug/l	37	151.5	50	8260B		7/27/2023	CJR	1
2-Chlorotoluene	< 17	ug/l	17	68.5	50	8260B		7/27/2023	CJR	1
4-Chlorotoluene	< 20	ug/l	20	81.5	50	8260B		7/27/2023	CJR	1
1,2-Dibromo-3-chloropropane	< 37	ug/l	37	150.5	50	8260B		7/27/2023	CJR	1
Dibromochloromethane	< 18	ug/l	18	73	50	8260B		7/27/2023	CJR	1
1,4-Dichlorobenzene	< 24.5	ug/l	24.5	100.5	50	8260B		7/27/2023	CJR	1
1,3-Dichlorobenzene	< 17.5	ug/l	17.5	72	50	8260B		7/27/2023	CJR	1
1,2-Dichlorobenzene	< 20	ug/l	20	82.5	50	8260B		7/27/2023	CJR	1
Dichlorodifluoromethane	< 15	ug/l	15	61.5	50	8260B		7/27/2023	CJR	1
1,2-Dichloroethane	< 21.5	ug/l	21.5	87.5	50	8260B		7/27/2023	CJR	1
1,1-Dichloroethane	171	ug/l	21.5	87	50	8260B		7/27/2023	CJR	1
1,1-Dichloroethene	196	ug/l	21.5	88	50	8260B		7/27/2023	CJR	1
cis-1,2-Dichloroethene	128000	ug/l	320	1290	1000	8260B		8/1/2023	CJR	1
trans-1,2-Dichloroethene	3150	ug/l	25	101	50	8260B		7/27/2023	CJR	1
1,2-Dichloropropane	< 19.5	ug/l	19.5	79	50	8260B		7/27/2023	CJR	1
1,3-Dichloropropane	< 19	ug/l	19	77.5	50	8260B		7/27/2023	CJR	1
trans-1,3-Dichloropropene	< 20.5	ug/l	20.5	83.5	50	8260B		7/27/2023	CJR	1
cis-1,3-Dichloropropene	< 20.5	ug/l	20.5	83.5	50	8260B		7/27/2023	CJR	1
Di-isopropyl ether	< 24	ug/l	24	98	50	8260B		7/27/2023	CJR	1
EDB (1,2-Dibromoethane)	< 19.5	ug/l	19.5	79.5	50	8260B		7/27/2023	CJR	1
Ethylbenzene	< 16.5	ug/l	16.5	68.5	50	8260B		7/27/2023	CJR	1
Hexachlorobutadiene	< 40.5	ug/l	40.5	172	50	8260B		7/27/2023	CJR	1
Isopropylbenzene	< 17	ug/l	17	69	50	8260B		7/27/2023	CJR	1
p-Isopropyltoluene	< 23.5	ug/l	23.5	95.5	50	8260B		7/27/2023	CJR	1
Methylene chloride	< 39.5	ug/l	39.5	161.5	50	8260B		7/27/2023	CJR	1
Methyl tert-butyl ether (MTBE)	< 23.5	ug/l	23.5	95.5	50	8260B		7/27/2023	CJR	1
Naphthalene	< 70	ug/l	70	278	50	8260B		7/27/2023	CJR	1
n-Propylbenzene	< 19.5	ug/l	19.5	80	50	8260B		7/27/2023	CJR	1
1,1,2,2-Tetrachloroethane	< 21.5	ug/l	21.5	88.5	50	8260B		7/27/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725F
Sample ID 200032-TW20
Sample Matrix Water
Sample Date 7/25/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,1,2-Tetrachloroethane	< 27.5	ug/l	27.5	112.5	50	8260B		7/27/2023	CJR	1
Tetrachloroethene	< 23.5	ug/l	23.5	95.5	50	8260B		7/27/2023	CJR	1
Toluene	< 16.5	ug/l	16.5	67.5	50	8260B		7/27/2023	CJR	1
1,2,4-Trichlorobenzene	< 31.5	ug/l	31.5	128.5	50	8260B		7/27/2023	CJR	1
1,2,3-Trichlorobenzene	< 70	ug/l	70	297	50	8260B		7/27/2023	CJR	1
1,1,1-Trichloroethane	25.5 "J"	ug/l	16.5	67	50	8260B		7/27/2023	CJR	1
1,1,2-Trichloroethane	26.5 "J"	ug/l	21	86	50	8260B		7/27/2023	CJR	1
Trichloroethene (TCE)	104000	ug/l	380	1550	1000	8260B		8/1/2023	CJR	1
Trichlorofluoromethane	< 16.5	ug/l	16.5	67.5	50	8260B		7/27/2023	CJR	1
1,2,4-Trimethylbenzene	< 17.5	ug/l	17.5	72	50	8260B		7/27/2023	CJR	1
1,3,5-Trimethylbenzene	< 20.5	ug/l	20.5	83	50	8260B		7/27/2023	CJR	1
Vinyl Chloride	14800	ug/l	150	610	1000	8260B		8/1/2023	CJR	1
m&p-Xylene	< 32	ug/l	32	131.5	50	8260B		7/27/2023	CJR	1
o-Xylene	< 18.5	ug/l	18.5	75.5	50	8260B		7/27/2023	CJR	1
SUR - Dibromofluoromethane	101	REC %			50	8260B		7/27/2023	CJR	1
SUR - 4-Bromofluorobenzene	92	REC %			50	8260B		7/27/2023	CJR	1
SUR - Toluene-d8	106	REC %			50	8260B		7/27/2023	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			50	8260B		7/27/2023	CJR	1
Wet Chemistry										
General										
Total Organic Carbon	224	mg/l	2.8	9.4	10	SM 5310B		8/4/2023	SL	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725G
Sample ID 200032-TW21
Sample Matrix Water
Sample Date 7/25/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
GASES										
Ethane	143	ug/l	5	15	10	8015		8/14/2023	ZJW	1
Ethene	< 5	ug/l	5	15	10	8015		8/14/2023	ZJW	1
Methane	2423	ug/l	10	30	10	8015		8/14/2023	ZJW	1
VOC's										
Benzene	< 1.5	ug/l	1.5	6.25	5	8260B		8/1/2023	CJR	1
Bromobenzene	< 1.7	ug/l	1.7	7	5	8260B		8/1/2023	CJR	1
Bromodichloromethane	< 1.8	ug/l	1.8	7.35	5	8260B		8/1/2023	CJR	1
Bromoform	< 2.1	ug/l	2.1	8.6	5	8260B		8/1/2023	CJR	1
tert-Butylbenzene	< 1.85	ug/l	1.85	7.45	5	8260B		8/1/2023	CJR	1
sec-Butylbenzene	< 1.65	ug/l	1.65	6.7	5	8260B		8/1/2023	CJR	1
n-Butylbenzene	< 3.55	ug/l	3.55	14.5	5	8260B		8/1/2023	CJR	1
Carbon Tetrachloride	< 1.7	ug/l	1.7	6.95	5	8260B		8/1/2023	CJR	1
Chlorobenzene	< 1.45	ug/l	1.45	5.95	5	8260B		8/1/2023	CJR	1
Chloroethane	< 3.1	ug/l	3.1	12.7	5	8260B		8/1/2023	CJR	1
Chloroform	< 1.65	ug/l	1.65	6.65	5	8260B		8/1/2023	CJR	1
Chloromethane	< 3.7	ug/l	3.7	15.15	5	8260B		8/1/2023	CJR	1
2-Chlorotoluene	< 1.7	ug/l	1.7	6.85	5	8260B		8/1/2023	CJR	1
4-Chlorotoluene	< 2	ug/l	2	8.15	5	8260B		8/1/2023	CJR	1
1,2-Dibromo-3-chloropropane	< 3.7	ug/l	3.7	15.05	5	8260B		8/1/2023	CJR	1
Dibromochloromethane	< 1.8	ug/l	1.8	7.3	5	8260B		8/1/2023	CJR	1
1,4-Dichlorobenzene	< 2.45	ug/l	2.45	10.05	5	8260B		8/1/2023	CJR	1
1,3-Dichlorobenzene	< 1.75	ug/l	1.75	7.2	5	8260B		8/1/2023	CJR	1
1,2-Dichlorobenzene	< 2	ug/l	2	8.25	5	8260B		8/1/2023	CJR	1
Dichlorodifluoromethane	< 1.5	ug/l	1.5	6.15	5	8260B		8/1/2023	CJR	1
1,2-Dichloroethane	< 2.15	ug/l	2.15	8.75	5	8260B		8/1/2023	CJR	1
1,1-Dichloroethane	< 2.15	ug/l	2.15	8.7	5	8260B		8/1/2023	CJR	1
1,1-Dichloroethene	< 2.15	ug/l	2.15	8.8	5	8260B		8/1/2023	CJR	1
cis-1,2-Dichloroethene	36	ug/l	1.6	6.45	5	8260B		8/1/2023	CJR	1
trans-1,2-Dichloroethene	6.9 "J"	ug/l	2.5	10.1	5	8260B		8/1/2023	CJR	1
1,2-Dichloropropane	< 1.95	ug/l	1.95	7.9	5	8260B		8/1/2023	CJR	1
1,3-Dichloropropane	< 1.9	ug/l	1.9	7.75	5	8260B		8/1/2023	CJR	1
trans-1,3-Dichloropropene	< 2.05	ug/l	2.05	8.35	5	8260B		8/1/2023	CJR	1
cis-1,3-Dichloropropene	< 2.05	ug/l	2.05	8.35	5	8260B		8/1/2023	CJR	1
Di-isopropyl ether	< 2.4	ug/l	2.4	9.8	5	8260B		8/1/2023	CJR	1
EDB (1,2-Dibromoethane)	< 1.95	ug/l	1.95	7.95	5	8260B		8/1/2023	CJR	1
Ethylbenzene	< 1.65	ug/l	1.65	6.85	5	8260B		8/1/2023	CJR	1
Hexachlorobutadiene	< 4.05	ug/l	4.05	17.2	5	8260B		8/1/2023	CJR	1
Isopropylbenzene	< 1.7	ug/l	1.7	6.9	5	8260B		8/1/2023	CJR	1
p-Isopropyltoluene	< 2.35	ug/l	2.35	9.55	5	8260B		8/1/2023	CJR	1
Methylene chloride	< 3.95	ug/l	3.95	16.15	5	8260B		8/1/2023	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.35	ug/l	2.35	9.55	5	8260B		8/1/2023	CJR	1
Naphthalene	< 7	ug/l	7	27.8	5	8260B		8/1/2023	CJR	1
n-Propylbenzene	< 1.95	ug/l	1.95	8	5	8260B		8/1/2023	CJR	1
1,1,2,2-Tetrachloroethane	< 2.15	ug/l	2.15	8.85	5	8260B		8/1/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725G
Sample ID 200032-TW21
Sample Matrix Water
Sample Date 7/25/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,1,2-Tetrachloroethane	< 2.75	ug/l	2.75	11.25	5	8260B		8/1/2023	CJR	1
Tetrachloroethene	< 2.35	ug/l	2.35	9.55	5	8260B		8/1/2023	CJR	1
Toluene	< 1.65	ug/l	1.65	6.75	5	8260B		8/1/2023	CJR	1
1,2,4-Trichlorobenzene	< 3.15	ug/l	3.15	12.85	5	8260B		8/1/2023	CJR	1
1,2,3-Trichlorobenzene	< 7	ug/l	7	29.7	5	8260B		8/1/2023	CJR	1
1,1,1-Trichloroethane	< 1.65	ug/l	1.65	6.7	5	8260B		8/1/2023	CJR	1
1,1,2-Trichloroethane	< 2.1	ug/l	2.1	8.6	5	8260B		8/1/2023	CJR	1
Trichloroethene (TCE)	16.7	ug/l	1.9	7.75	5	8260B		8/1/2023	CJR	1
Trichlorofluoromethane	< 1.65	ug/l	1.65	6.75	5	8260B		8/1/2023	CJR	1
1,2,4-Trimethylbenzene	< 1.75	ug/l	1.75	7.2	5	8260B		8/1/2023	CJR	1
1,3,5-Trimethylbenzene	< 2.05	ug/l	2.05	8.3	5	8260B		8/1/2023	CJR	1
Vinyl Chloride	46	ug/l	0.75	3.05	5	8260B		8/1/2023	CJR	1
m&p-Xylene	< 3.2	ug/l	3.2	13.15	5	8260B		8/1/2023	CJR	1
o-Xylene	< 1.85	ug/l	1.85	7.55	5	8260B		8/1/2023	CJR	1
SUR - 1,2-Dichloroethane-d4	111	REC %			5	8260B		8/1/2023	CJR	1
SUR - 4-Bromofluorobenzene	123	REC %			5	8260B		8/1/2023	CJR	1
SUR - Dibromofluoromethane	113	REC %			5	8260B		8/1/2023	CJR	1
SUR - Toluene-d8	110	REC %			5	8260B		8/1/2023	CJR	1
Wet Chemistry										
General										
Total Organic Carbon	269	mg/l	2.8	9.4	10	SM 5310B		8/4/2023	SL	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725H
Sample ID 200032-TW22
Sample Matrix Water
Sample Date 7/25/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
GASES										
Ethane	< 0.5	ug/l	0.5	1.5	1	8015		8/14/2023	ZJW	1
Ethene	< 0.5	ug/l	0.5	1.5	1	8015		8/14/2023	ZJW	1
Methane	10.8	ug/l	1	3	1	8015		8/14/2023	ZJW	1
VOC's										
Benzene	< 3	ug/l	3	12.5	10	8260B		7/28/2023	CJR	1
Bromobenzene	< 3.4	ug/l	3.4	14	10	8260B		7/28/2023	CJR	1
Bromodichloromethane	< 3.6	ug/l	3.6	14.7	10	8260B		7/28/2023	CJR	1
Bromoform	< 4.2	ug/l	4.2	17.2	10	8260B		7/28/2023	CJR	1
tert-Butylbenzene	< 3.7	ug/l	3.7	14.9	10	8260B		7/28/2023	CJR	1
sec-Butylbenzene	< 3.3	ug/l	3.3	13.4	10	8260B		7/28/2023	CJR	1
n-Butylbenzene	< 7.1	ug/l	7.1	29	10	8260B		7/28/2023	CJR	1
Carbon Tetrachloride	< 3.4	ug/l	3.4	13.9	10	8260B		7/28/2023	CJR	1
Chlorobenzene	< 2.9	ug/l	2.9	11.9	10	8260B		7/28/2023	CJR	1
Chloroethane	< 6.2	ug/l	6.2	25.4	10	8260B		7/28/2023	CJR	1
Chloroform	< 3.3	ug/l	3.3	13.3	10	8260B		7/28/2023	CJR	1
Chloromethane	< 7.4	ug/l	7.4	30.3	10	8260B		7/28/2023	CJR	1
2-Chlorotoluene	< 3.4	ug/l	3.4	13.7	10	8260B		7/28/2023	CJR	1
4-Chlorotoluene	< 4	ug/l	4	16.3	10	8260B		7/28/2023	CJR	1
1,2-Dibromo-3-chloropropane	< 7.4	ug/l	7.4	30.1	10	8260B		7/28/2023	CJR	1
Dibromochloromethane	< 3.6	ug/l	3.6	14.6	10	8260B		7/28/2023	CJR	1
1,4-Dichlorobenzene	< 4.9	ug/l	4.9	20.1	10	8260B		7/28/2023	CJR	1
1,3-Dichlorobenzene	< 3.5	ug/l	3.5	14.4	10	8260B		7/28/2023	CJR	1
1,2-Dichlorobenzene	< 4	ug/l	4	16.5	10	8260B		7/28/2023	CJR	1
Dichlorodifluoromethane	< 3	ug/l	3	12.3	10	8260B		7/28/2023	CJR	1
1,2-Dichloroethane	< 4.3	ug/l	4.3	17.5	10	8260B		7/28/2023	CJR	1
1,1-Dichloroethane	< 4.3	ug/l	4.3	17.4	10	8260B		7/28/2023	CJR	1
1,1-Dichloroethene	< 4.3	ug/l	4.3	17.6	10	8260B		7/28/2023	CJR	1
cis-1,2-Dichloroethene	96	ug/l	3.2	12.9	10	8260B		7/28/2023	CJR	1
trans-1,2-Dichloroethene	5.3 "J"	ug/l	5	20.2	10	8260B		7/28/2023	CJR	1
1,2-Dichloropropane	< 3.9	ug/l	3.9	15.8	10	8260B		7/28/2023	CJR	1
1,3-Dichloropropane	< 3.8	ug/l	3.8	15.5	10	8260B		7/28/2023	CJR	1
trans-1,3-Dichloropropene	< 4.1	ug/l	4.1	16.7	10	8260B		7/28/2023	CJR	1
cis-1,3-Dichloropropene	< 4.1	ug/l	4.1	16.7	10	8260B		7/28/2023	CJR	1
Di-isopropyl ether	< 4.8	ug/l	4.8	19.6	10	8260B		7/28/2023	CJR	1
EDB (1,2-Dibromoethane)	< 3.9	ug/l	3.9	15.9	10	8260B		7/28/2023	CJR	1
Ethylbenzene	< 3.3	ug/l	3.3	13.7	10	8260B		7/28/2023	CJR	1
Hexachlorobutadiene	< 8.1	ug/l	8.1	34.4	10	8260B		7/28/2023	CJR	1
Isopropylbenzene	< 3.4	ug/l	3.4	13.8	10	8260B		7/28/2023	CJR	1
p-Isopropyltoluene	< 4.7	ug/l	4.7	19.1	10	8260B		7/28/2023	CJR	1
Methylene chloride	< 7.9	ug/l	7.9	32.3	10	8260B		7/28/2023	CJR	1
Methyl tert-butyl ether (MTBE)	< 4.7	ug/l	4.7	19.1	10	8260B		7/28/2023	CJR	1
Naphthalene	< 14	ug/l	14	55.6	10	8260B		7/28/2023	CJR	1
n-Propylbenzene	< 3.9	ug/l	3.9	16	10	8260B		7/28/2023	CJR	1
1,1,2,2-Tetrachloroethane	< 4.3	ug/l	4.3	17.7	10	8260B		7/28/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725H
Sample ID 200032-TW22
Sample Matrix Water
Sample Date 7/25/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,1,2-Tetrachloroethane	< 5.5	ug/l	5.5	22.5	10	8260B		7/28/2023	CJR	1
Tetrachloroethene	< 4.7	ug/l	4.7	19.1	10	8260B		7/28/2023	CJR	1
Toluene	< 3.3	ug/l	3.3	13.5	10	8260B		7/28/2023	CJR	1
1,2,4-Trichlorobenzene	< 6.3	ug/l	6.3	25.7	10	8260B		7/28/2023	CJR	1
1,2,3-Trichlorobenzene	< 14	ug/l	14	59.4	10	8260B		7/28/2023	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	13.4	10	8260B		7/28/2023	CJR	1
1,1,2-Trichloroethane	< 4.2	ug/l	4.2	17.2	10	8260B		7/28/2023	CJR	1
Trichloroethene (TCE)	7.4 "J"	ug/l	3.8	15.5	10	8260B		7/28/2023	CJR	1
Trichlorofluoromethane	< 3.3	ug/l	3.3	13.5	10	8260B		7/28/2023	CJR	1
1,2,4-Trimethylbenzene	< 3.5	ug/l	3.5	14.4	10	8260B		7/28/2023	CJR	1
1,3,5-Trimethylbenzene	< 4.1	ug/l	4.1	16.6	10	8260B		7/28/2023	CJR	1
Vinyl Chloride	220	ug/l	1.5	6.1	10	8260B		7/28/2023	CJR	1
m&p-Xylene	< 6.4	ug/l	6.4	26.3	10	8260B		7/28/2023	CJR	1
o-Xylene	< 3.7	ug/l	3.7	15.1	10	8260B		7/28/2023	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			10	8260B		7/28/2023	CJR	1
SUR - 4-Bromofluorobenzene	88	REC %			10	8260B		7/28/2023	CJR	1
SUR - Dibromofluoromethane	94	REC %			10	8260B		7/28/2023	CJR	1
SUR - Toluene-d8	106	REC %			10	8260B		7/28/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725I
Sample ID 200032-TW23
Sample Matrix Water
Sample Date 7/25/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
GASES										
Ethane	15.6	ug/l	0.5	1.5	1	8015		8/14/2023	ZJW	1
Ethene	< 0.5	ug/l	0.5	1.5	1	8015		8/14/2023	ZJW	1
Methane	842	ug/l	1	3	1	8015		8/14/2023	ZJW	1
VOC's										
Benzene	< 3	ug/l	3	12.5	10	8260B		7/28/2023	CJR	1
Bromobenzene	< 3.4	ug/l	3.4	14	10	8260B		7/28/2023	CJR	1
Bromodichloromethane	< 3.6	ug/l	3.6	14.7	10	8260B		7/28/2023	CJR	1
Bromoform	< 4.2	ug/l	4.2	17.2	10	8260B		7/28/2023	CJR	1
tert-Butylbenzene	< 3.7	ug/l	3.7	14.9	10	8260B		7/28/2023	CJR	1
sec-Butylbenzene	< 3.3	ug/l	3.3	13.4	10	8260B		7/28/2023	CJR	1
n-Butylbenzene	< 7.1	ug/l	7.1	29	10	8260B		7/28/2023	CJR	1
Carbon Tetrachloride	< 3.4	ug/l	3.4	13.9	10	8260B		7/28/2023	CJR	1
Chlorobenzene	< 2.9	ug/l	2.9	11.9	10	8260B		7/28/2023	CJR	1
Chloroethane	< 6.2	ug/l	6.2	25.4	10	8260B		7/28/2023	CJR	1
Chloroform	< 3.3	ug/l	3.3	13.3	10	8260B		7/28/2023	CJR	1
Chloromethane	< 7.4	ug/l	7.4	30.3	10	8260B		7/28/2023	CJR	1
2-Chlorotoluene	< 3.4	ug/l	3.4	13.7	10	8260B		7/28/2023	CJR	1
4-Chlorotoluene	< 4	ug/l	4	16.3	10	8260B		7/28/2023	CJR	1
1,2-Dibromo-3-chloropropane	< 7.4	ug/l	7.4	30.1	10	8260B		7/28/2023	CJR	1
Dibromochloromethane	< 3.6	ug/l	3.6	14.6	10	8260B		7/28/2023	CJR	1
1,4-Dichlorobenzene	< 4.9	ug/l	4.9	20.1	10	8260B		7/28/2023	CJR	1
1,3-Dichlorobenzene	< 3.5	ug/l	3.5	14.4	10	8260B		7/28/2023	CJR	1
1,2-Dichlorobenzene	< 4	ug/l	4	16.5	10	8260B		7/28/2023	CJR	1
Dichlorodifluoromethane	4.1 "J"	ug/l	3	12.3	10	8260B		7/28/2023	CJR	1
1,2-Dichloroethane	< 4.3	ug/l	4.3	17.5	10	8260B		7/28/2023	CJR	1
1,1-Dichloroethane	< 4.3	ug/l	4.3	17.4	10	8260B		7/28/2023	CJR	1
1,1-Dichloroethene	< 4.3	ug/l	4.3	17.6	10	8260B		7/28/2023	CJR	1
cis-1,2-Dichloroethene	73	ug/l	3.2	12.9	10	8260B		7/28/2023	CJR	1
trans-1,2-Dichloroethene	< 5	ug/l	5	20.2	10	8260B		7/28/2023	CJR	1
1,2-Dichloropropane	< 3.9	ug/l	3.9	15.8	10	8260B		7/28/2023	CJR	1
1,3-Dichloropropane	< 3.8	ug/l	3.8	15.5	10	8260B		7/28/2023	CJR	1
trans-1,3-Dichloropropene	< 4.1	ug/l	4.1	16.7	10	8260B		7/28/2023	CJR	1
cis-1,3-Dichloropropene	< 4.1	ug/l	4.1	16.7	10	8260B		7/28/2023	CJR	1
Di-isopropyl ether	< 4.8	ug/l	4.8	19.6	10	8260B		7/28/2023	CJR	1
EDB (1,2-Dibromoethane)	< 3.9	ug/l	3.9	15.9	10	8260B		7/28/2023	CJR	1
Ethylbenzene	< 3.3	ug/l	3.3	13.7	10	8260B		7/28/2023	CJR	1
Hexachlorobutadiene	< 8.1	ug/l	8.1	34.4	10	8260B		7/28/2023	CJR	1
Isopropylbenzene	< 3.4	ug/l	3.4	13.8	10	8260B		7/28/2023	CJR	1
p-Isopropyltoluene	< 4.7	ug/l	4.7	19.1	10	8260B		7/28/2023	CJR	1
Methylene chloride	< 7.9	ug/l	7.9	32.3	10	8260B		7/28/2023	CJR	1
Methyl tert-butyl ether (MTBE)	< 4.7	ug/l	4.7	19.1	10	8260B		7/28/2023	CJR	1
Naphthalene	< 14	ug/l	14	55.6	10	8260B		7/28/2023	CJR	1
n-Propylbenzene	< 3.9	ug/l	3.9	16	10	8260B		7/28/2023	CJR	1
1,1,2,2-Tetrachloroethane	< 4.3	ug/l	4.3	17.7	10	8260B		7/28/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725I
Sample ID 200032-TW23
Sample Matrix Water
Sample Date 7/25/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,1,2-Tetrachloroethane	< 5.5	ug/l	5.5	22.5	10	8260B		7/28/2023	CJR	1
Tetrachloroethene	< 4.7	ug/l	4.7	19.1	10	8260B		7/28/2023	CJR	1
Toluene	< 3.3	ug/l	3.3	13.5	10	8260B		7/28/2023	CJR	1
1,2,4-Trichlorobenzene	< 6.3	ug/l	6.3	25.7	10	8260B		7/28/2023	CJR	1
1,2,3-Trichlorobenzene	< 14	ug/l	14	59.4	10	8260B		7/28/2023	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	13.4	10	8260B		7/28/2023	CJR	1
1,1,2-Trichloroethane	< 4.2	ug/l	4.2	17.2	10	8260B		7/28/2023	CJR	1
Trichloroethene (TCE)	6.7 "J"	ug/l	3.8	15.5	10	8260B		7/28/2023	CJR	1
Trichlorofluoromethane	< 3.3	ug/l	3.3	13.5	10	8260B		7/28/2023	CJR	1
1,2,4-Trimethylbenzene	< 3.5	ug/l	3.5	14.4	10	8260B		7/28/2023	CJR	1
1,3,5-Trimethylbenzene	< 4.1	ug/l	4.1	16.6	10	8260B		7/28/2023	CJR	1
Vinyl Chloride	11.4	ug/l	1.5	6.1	10	8260B		7/28/2023	CJR	1
m&p-Xylene	< 6.4	ug/l	6.4	26.3	10	8260B		7/28/2023	CJR	1
o-Xylene	< 3.7	ug/l	3.7	15.1	10	8260B		7/28/2023	CJR	1
SUR - Dibromofluoromethane	94	REC %			10	8260B		7/28/2023	CJR	1
SUR - Toluene-d8	102	REC %			10	8260B		7/28/2023	CJR	1
SUR - 1,2-Dichloroethane-d4	93	REC %			10	8260B		7/28/2023	CJR	1
SUR - 4-Bromofluorobenzene	84	REC %			10	8260B		7/28/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725J
Sample ID 200032-TW24
Sample Matrix Water
Sample Date 7/25/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
GASES										
Ethane	186	ug/l	0.5	1.5	1	8015		8/14/2023	ZJW	1
Ethene	< 0.5	ug/l	0.5	1.5	1	8015		8/14/2023	ZJW	1
Methane	19.1	ug/l	1	3	1	8015		8/14/2023	ZJW	1
VOC's										
Benzene	< 3	ug/l	3	12.5	10	8260B		7/28/2023	CJR	1
Bromobenzene	< 3.4	ug/l	3.4	14	10	8260B		7/28/2023	CJR	1
Bromodichloromethane	< 3.6	ug/l	3.6	14.7	10	8260B		7/28/2023	CJR	1
Bromoform	< 4.2	ug/l	4.2	17.2	10	8260B		7/28/2023	CJR	1
tert-Butylbenzene	< 3.7	ug/l	3.7	14.9	10	8260B		7/28/2023	CJR	1
sec-Butylbenzene	< 3.3	ug/l	3.3	13.4	10	8260B		7/28/2023	CJR	1
n-Butylbenzene	< 7.1	ug/l	7.1	29	10	8260B		7/28/2023	CJR	1
Carbon Tetrachloride	< 3.4	ug/l	3.4	13.9	10	8260B		7/28/2023	CJR	1
Chlorobenzene	< 2.9	ug/l	2.9	11.9	10	8260B		7/28/2023	CJR	1
Chloroethane	< 6.2	ug/l	6.2	25.4	10	8260B		7/28/2023	CJR	1
Chloroform	< 3.3	ug/l	3.3	13.3	10	8260B		7/28/2023	CJR	1
Chloromethane	< 7.4	ug/l	7.4	30.3	10	8260B		7/28/2023	CJR	1
2-Chlorotoluene	< 3.4	ug/l	3.4	13.7	10	8260B		7/28/2023	CJR	1
4-Chlorotoluene	< 4	ug/l	4	16.3	10	8260B		7/28/2023	CJR	1
1,2-Dibromo-3-chloropropane	< 7.4	ug/l	7.4	30.1	10	8260B		7/28/2023	CJR	1
Dibromochloromethane	< 3.6	ug/l	3.6	14.6	10	8260B		7/28/2023	CJR	1
1,4-Dichlorobenzene	< 4.9	ug/l	4.9	20.1	10	8260B		7/28/2023	CJR	1
1,3-Dichlorobenzene	< 3.5	ug/l	3.5	14.4	10	8260B		7/28/2023	CJR	1
1,2-Dichlorobenzene	< 4	ug/l	4	16.5	10	8260B		7/28/2023	CJR	1
Dichlorodifluoromethane	31.2	ug/l	3	12.3	10	8260B		7/28/2023	CJR	1
1,2-Dichloroethane	4.5 "J"	ug/l	4.3	17.5	10	8260B		7/28/2023	CJR	1
1,1-Dichloroethane	< 4.3	ug/l	4.3	17.4	10	8260B		7/28/2023	CJR	1
1,1-Dichloroethene	13.4 "J"	ug/l	4.3	17.6	10	8260B		7/28/2023	CJR	1
cis-1,2-Dichloroethene	630	ug/l	3.2	12.9	10	8260B		7/28/2023	CJR	1
trans-1,2-Dichloroethene	37	ug/l	5	20.2	10	8260B		7/28/2023	CJR	1
1,2-Dichloropropane	< 3.9	ug/l	3.9	15.8	10	8260B		7/28/2023	CJR	1
1,3-Dichloropropane	< 3.8	ug/l	3.8	15.5	10	8260B		7/28/2023	CJR	1
trans-1,3-Dichloropropene	< 4.1	ug/l	4.1	16.7	10	8260B		7/28/2023	CJR	1
cis-1,3-Dichloropropene	< 4.1	ug/l	4.1	16.7	10	8260B		7/28/2023	CJR	1
Di-isopropyl ether	< 4.8	ug/l	4.8	19.6	10	8260B		7/28/2023	CJR	1
EDB (1,2-Dibromoethane)	< 3.9	ug/l	3.9	15.9	10	8260B		7/28/2023	CJR	1
Ethylbenzene	< 3.3	ug/l	3.3	13.7	10	8260B		7/28/2023	CJR	1
Hexachlorobutadiene	< 8.1	ug/l	8.1	34.4	10	8260B		7/28/2023	CJR	1
Isopropylbenzene	< 3.4	ug/l	3.4	13.8	10	8260B		7/28/2023	CJR	1
p-Isopropyltoluene	< 4.7	ug/l	4.7	19.1	10	8260B		7/28/2023	CJR	1
Methylene chloride	< 7.9	ug/l	7.9	32.3	10	8260B		7/28/2023	CJR	1
Methyl tert-butyl ether (MTBE)	< 4.7	ug/l	4.7	19.1	10	8260B		7/28/2023	CJR	1
Naphthalene	< 14	ug/l	14	55.6	10	8260B		7/28/2023	CJR	1
n-Propylbenzene	< 3.9	ug/l	3.9	16	10	8260B		7/28/2023	CJR	1
1,1,2,2-Tetrachloroethane	< 4.3	ug/l	4.3	17.7	10	8260B		7/28/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725J
Sample ID 200032-TW24
Sample Matrix Water
Sample Date 7/25/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,1,2-Tetrachloroethane	< 5.5	ug/l	5.5	22.5	10	8260B		7/28/2023	CJR	1
Tetrachloroethene	< 4.7	ug/l	4.7	19.1	10	8260B		7/28/2023	CJR	1
Toluene	< 3.3	ug/l	3.3	13.5	10	8260B		7/28/2023	CJR	1
1,2,4-Trichlorobenzene	< 6.3	ug/l	6.3	25.7	10	8260B		7/28/2023	CJR	1
1,2,3-Trichlorobenzene	< 14	ug/l	14	59.4	10	8260B		7/28/2023	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	13.4	10	8260B		7/28/2023	CJR	1
1,1,2-Trichloroethane	< 4.2	ug/l	4.2	17.2	10	8260B		7/28/2023	CJR	1
Trichloroethene (TCE)	420	ug/l	3.8	15.5	10	8260B		7/28/2023	CJR	1
Trichlorofluoromethane	< 3.3	ug/l	3.3	13.5	10	8260B		7/28/2023	CJR	1
1,2,4-Trimethylbenzene	< 3.5	ug/l	3.5	14.4	10	8260B		7/28/2023	CJR	1
1,3,5-Trimethylbenzene	< 4.1	ug/l	4.1	16.6	10	8260B		7/28/2023	CJR	1
Vinyl Chloride	114	ug/l	1.5	6.1	10	8260B		7/28/2023	CJR	1
m&p-Xylene	< 6.4	ug/l	6.4	26.3	10	8260B		7/28/2023	CJR	1
o-Xylene	< 3.7	ug/l	3.7	15.1	10	8260B		7/28/2023	CJR	1
SUR - 4-Bromofluorobenzene	83	REC %			10	8260B		7/28/2023	CJR	1
SUR - Dibromofluoromethane	97	REC %			10	8260B		7/28/2023	CJR	1
SUR - Toluene-d8	101	REC %			10	8260B		7/28/2023	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			10	8260B		7/28/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725K
Sample ID 200032-SUMP-1
Sample Matrix Water
Sample Date 7/26/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Chromium, Hexavalent	132	ug/l	2	7	1	SM3500CrB		7/26/2023	BLE	1
Chromium, Total	407	ug/L	2.3	7.4	1	200.7		7/27/2023	CWT	1
Organic										
VOC's										
Benzene	< 3	ug/l	3	12.5	10	8260B		7/28/2023	CJR	1
Bromobenzene	< 3.4	ug/l	3.4	14	10	8260B		7/28/2023	CJR	1
Bromodichloromethane	< 3.6	ug/l	3.6	14.7	10	8260B		7/28/2023	CJR	1
Bromoform	< 4.2	ug/l	4.2	17.2	10	8260B		7/28/2023	CJR	1
tert-Butylbenzene	< 3.7	ug/l	3.7	14.9	10	8260B		7/28/2023	CJR	1
sec-Butylbenzene	< 3.3	ug/l	3.3	13.4	10	8260B		7/28/2023	CJR	1
n-Butylbenzene	< 7.1	ug/l	7.1	29	10	8260B		7/28/2023	CJR	1
Carbon Tetrachloride	< 3.4	ug/l	3.4	13.9	10	8260B		7/28/2023	CJR	1
Chlorobenzene	< 2.9	ug/l	2.9	11.9	10	8260B		7/28/2023	CJR	1
Chloroethane	< 6.2	ug/l	6.2	25.4	10	8260B		7/28/2023	CJR	1
Chloroform	< 3.3	ug/l	3.3	13.3	10	8260B		7/28/2023	CJR	1
Chloromethane	< 7.4	ug/l	7.4	30.3	10	8260B		7/28/2023	CJR	1
2-Chlorotoluene	< 3.4	ug/l	3.4	13.7	10	8260B		7/28/2023	CJR	1
4-Chlorotoluene	< 4	ug/l	4	16.3	10	8260B		7/28/2023	CJR	1
1,2-Dibromo-3-chloropropane	< 7.4	ug/l	7.4	30.1	10	8260B		7/28/2023	CJR	1
Dibromochloromethane	< 3.6	ug/l	3.6	14.6	10	8260B		7/28/2023	CJR	1
1,4-Dichlorobenzene	< 4.9	ug/l	4.9	20.1	10	8260B		7/28/2023	CJR	1
1,3-Dichlorobenzene	< 3.5	ug/l	3.5	14.4	10	8260B		7/28/2023	CJR	1
1,2-Dichlorobenzene	< 4	ug/l	4	16.5	10	8260B		7/28/2023	CJR	1
Dichlorodifluoromethane	< 3	ug/l	3	12.3	10	8260B		7/28/2023	CJR	1
1,2-Dichloroethane	< 4.3	ug/l	4.3	17.5	10	8260B		7/28/2023	CJR	1
1,1-Dichloroethane	< 4.3	ug/l	4.3	17.4	10	8260B		7/28/2023	CJR	1
1,1-Dichloroethene	< 4.3	ug/l	4.3	17.6	10	8260B		7/28/2023	CJR	1
cis-1,2-Dichloroethene	117	ug/l	3.2	12.9	10	8260B		7/28/2023	CJR	1
trans-1,2-Dichloroethene	< 5	ug/l	5	20.2	10	8260B		7/28/2023	CJR	1
1,2-Dichloropropane	< 3.9	ug/l	3.9	15.8	10	8260B		7/28/2023	CJR	1
1,3-Dichloropropane	< 3.8	ug/l	3.8	15.5	10	8260B		7/28/2023	CJR	1
trans-1,3-Dichloropropene	< 4.1	ug/l	4.1	16.7	10	8260B		7/28/2023	CJR	1
cis-1,3-Dichloropropene	< 4.1	ug/l	4.1	16.7	10	8260B		7/28/2023	CJR	1
Di-isopropyl ether	< 4.8	ug/l	4.8	19.6	10	8260B		7/28/2023	CJR	1
EDB (1,2-Dibromoethane)	< 3.9	ug/l	3.9	15.9	10	8260B		7/28/2023	CJR	1
Ethylbenzene	< 3.3	ug/l	3.3	13.7	10	8260B		7/28/2023	CJR	1
Hexachlorobutadiene	< 8.1	ug/l	8.1	34.4	10	8260B		7/28/2023	CJR	1
Isopropylbenzene	< 3.4	ug/l	3.4	13.8	10	8260B		7/28/2023	CJR	1
p-Isopropyltoluene	< 4.7	ug/l	4.7	19.1	10	8260B		7/28/2023	CJR	1
Methylene chloride	< 7.9	ug/l	7.9	32.3	10	8260B		7/28/2023	CJR	1
Methyl tert-butyl ether (MTBE)	< 4.7	ug/l	4.7	19.1	10	8260B		7/28/2023	CJR	1
Naphthalene	< 14	ug/l	14	55.6	10	8260B		7/28/2023	CJR	1
n-Propylbenzene	< 3.9	ug/l	3.9	16	10	8260B		7/28/2023	CJR	1
1,1,2,2-Tetrachloroethane	< 4.3	ug/l	4.3	17.7	10	8260B		7/28/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725K
Sample ID 200032-SUMP-1
Sample Matrix Water
Sample Date 7/26/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,1,2-Tetrachloroethane	< 5.5	ug/l	5.5	22.5	10	8260B		7/28/2023	CJR	1
Tetrachloroethene	< 4.7	ug/l	4.7	19.1	10	8260B		7/28/2023	CJR	1
Toluene	< 3.3	ug/l	3.3	13.5	10	8260B		7/28/2023	CJR	1
1,2,4-Trichlorobenzene	< 6.3	ug/l	6.3	25.7	10	8260B		7/28/2023	CJR	1
1,2,3-Trichlorobenzene	< 14	ug/l	14	59.4	10	8260B		7/28/2023	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	13.4	10	8260B		7/28/2023	CJR	1
1,1,2-Trichloroethane	< 4.2	ug/l	4.2	17.2	10	8260B		7/28/2023	CJR	1
Trichloroethene (TCE)	136	ug/l	3.8	15.5	10	8260B		7/28/2023	CJR	1
Trichlorofluoromethane	< 3.3	ug/l	3.3	13.5	10	8260B		7/28/2023	CJR	1
1,2,4-Trimethylbenzene	< 3.5	ug/l	3.5	14.4	10	8260B		7/28/2023	CJR	1
1,3,5-Trimethylbenzene	< 4.1	ug/l	4.1	16.6	10	8260B		7/28/2023	CJR	1
Vinyl Chloride	5.2 "J"	ug/l	1.5	6.1	10	8260B		7/28/2023	CJR	1
m&p-Xylene	< 6.4	ug/l	6.4	26.3	10	8260B		7/28/2023	CJR	1
o-Xylene	< 3.7	ug/l	3.7	15.1	10	8260B		7/28/2023	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			10	8260B		7/28/2023	CJR	1
SUR - 4-Bromofluorobenzene	90	REC %			10	8260B		7/28/2023	CJR	1
SUR - Dibromofluoromethane	94	REC %			10	8260B		7/28/2023	CJR	1
SUR - Toluene-d8	103	REC %			10	8260B		7/28/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725L
Sample ID 200032-SUMP-2
Sample Matrix Water
Sample Date 7/26/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Chromium, Hexavalent	159	ug/l	2	7	1	SM3500CrB		7/26/2023	BLE	1
Chromium, Total	304	ug/L	2.3	7.4	1	200.7		7/27/2023	CWT	1
Organic										
VOC's										
Benzene	< 0.3	ug/l	0.3	1.25	1	8260B		7/31/2023	CJR	1
Bromobenzene	< 0.34	ug/l	0.34	1.4	1	8260B		7/31/2023	CJR	1
Bromodichloromethane	< 0.36	ug/l	0.36	1.47	1	8260B		7/31/2023	CJR	1
Bromoform	< 0.42	ug/l	0.42	1.72	1	8260B		7/31/2023	CJR	1
tert-Butylbenzene	< 0.37	ug/l	0.37	1.49	1	8260B		7/31/2023	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1.34	1	8260B		7/31/2023	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.9	1	8260B		7/31/2023	CJR	1
Carbon Tetrachloride	< 0.34	ug/l	0.34	1.39	1	8260B		7/31/2023	CJR	1
Chlorobenzene	< 0.29	ug/l	0.29	1.19	1	8260B		7/31/2023	CJR	1
Chloroethane	< 0.62	ug/l	0.62	2.54	1	8260B		7/31/2023	CJR	1
Chloroform	< 0.33	ug/l	0.33	1.33	1	8260B		7/31/2023	CJR	1
Chloromethane	< 0.74	ug/l	0.74	3.03	1	8260B		7/31/2023	CJR	1
2-Chlorotoluene	< 0.34	ug/l	0.34	1.37	1	8260B		7/31/2023	CJR	1
4-Chlorotoluene	< 0.4	ug/l	0.4	1.63	1	8260B		7/31/2023	CJR	1
1,2-Dibromo-3-chloropropane	< 0.74	ug/l	0.74	3.01	1	8260B		7/31/2023	CJR	1
Dibromochloromethane	< 0.36	ug/l	0.36	1.46	1	8260B		7/31/2023	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	2.01	1	8260B		7/31/2023	CJR	1
1,3-Dichlorobenzene	< 0.35	ug/l	0.35	1.44	1	8260B		7/31/2023	CJR	1
1,2-Dichlorobenzene	< 0.4	ug/l	0.4	1.65	1	8260B		7/31/2023	CJR	1
Dichlorodifluoromethane	0.44 "J"	ug/l	0.3	1.23	1	8260B		7/31/2023	CJR	1
1,2-Dichloroethane	< 0.43	ug/l	0.43	1.75	1	8260B		7/31/2023	CJR	1
1,1-Dichloroethane	< 0.43	ug/l	0.43	1.74	1	8260B		7/31/2023	CJR	1
1,1-Dichloroethene	< 0.43	ug/l	0.43	1.76	1	8260B		7/31/2023	CJR	1
cis-1,2-Dichloroethene	22.6	ug/l	0.32	1.29	1	8260B		7/31/2023	CJR	1
trans-1,2-Dichloroethene	0.56 "J"	ug/l	0.5	2.02	1	8260B		7/31/2023	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.58	1	8260B		7/31/2023	CJR	1
1,3-Dichloropropane	< 0.38	ug/l	0.38	1.55	1	8260B		7/31/2023	CJR	1
trans-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		7/31/2023	CJR	1
cis-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		7/31/2023	CJR	1
Di-isopropyl ether	< 0.48	ug/l	0.48	1.96	1	8260B		7/31/2023	CJR	1
EDB (1,2-Dibromoethane)	< 0.39	ug/l	0.39	1.59	1	8260B		7/31/2023	CJR	1
Ethylbenzene	< 0.33	ug/l	0.33	1.37	1	8260B		7/31/2023	CJR	1
Hexachlorobutadiene	< 0.81	ug/l	0.81	3.44	1	8260B		7/31/2023	CJR	1
Isopropylbenzene	< 0.34	ug/l	0.34	1.38	1	8260B		7/31/2023	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.91	1	8260B		7/31/2023	CJR	1
Methylene chloride	< 0.79	ug/l	0.79	3.23	1	8260B		7/31/2023	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.91	1	8260B		7/31/2023	CJR	1
Naphthalene	< 1.4	ug/l	1.4	5.56	1	8260B		7/31/2023	CJR	1
n-Propylbenzene	< 0.39	ug/l	0.39	1.6	1	8260B		7/31/2023	CJR	1
1,1,2,2-Tetrachloroethane	< 0.43	ug/l	0.43	1.77	1	8260B		7/31/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725L
Sample ID 200032-SUMP-2
Sample Matrix Water
Sample Date 7/26/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,1,2-Tetrachloroethane	< 0.55	ug/l	0.55	2.25	1	8260B		7/31/2023	CJR	1
Tetrachloroethene	< 0.47	ug/l	0.47	1.91	1	8260B		7/31/2023	CJR	1
Toluene	< 0.33	ug/l	0.33	1.35	1	8260B		7/31/2023	CJR	1
1,2,4-Trichlorobenzene	< 0.63	ug/l	0.63	2.57	1	8260B		7/31/2023	CJR	1
1,2,3-Trichlorobenzene	< 1.4	ug/l	1.4	5.94	1	8260B		7/31/2023	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.34	1	8260B		7/31/2023	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.72	1	8260B		7/31/2023	CJR	1
Trichloroethene (TCE)	61	ug/l	0.38	1.55	1	8260B		7/31/2023	CJR	1
Trichlorofluoromethane	< 0.33	ug/l	0.33	1.35	1	8260B		7/31/2023	CJR	1
1,2,4-Trimethylbenzene	< 0.35	ug/l	0.35	1.44	1	8260B		7/31/2023	CJR	1
1,3,5-Trimethylbenzene	< 0.41	ug/l	0.41	1.66	1	8260B		7/31/2023	CJR	1
Vinyl Chloride	0.34 "J"	ug/l	0.15	0.61	1	8260B		7/31/2023	CJR	1
m&p-Xylene	< 0.64	ug/l	0.64	2.63	1	8260B		7/31/2023	CJR	1
o-Xylene	< 0.37	ug/l	0.37	1.51	1	8260B		7/31/2023	CJR	1
SUR - 1,2-Dichloroethane-d4	113	REC %			1	8260B		7/31/2023	CJR	1
SUR - 4-Bromofluorobenzene	120	REC %			1	8260B		7/31/2023	CJR	1
SUR - Dibromofluoromethane	116	REC %			1	8260B		7/31/2023	CJR	1
SUR - Toluene-d8	110	REC %			1	8260B		7/31/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725M
Sample ID 200032-DUP-1
Sample Matrix Water
Sample Date 7/26/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.3	ug/l	0.3	1.25	1	8260B		8/1/2023	CJR	1
Bromobenzene	< 0.34	ug/l	0.34	1.4	1	8260B		8/1/2023	CJR	1
Bromodichloromethane	< 0.36	ug/l	0.36	1.47	1	8260B		8/1/2023	CJR	1
Bromoform	< 0.42	ug/l	0.42	1.72	1	8260B		8/1/2023	CJR	1
tert-Butylbenzene	< 0.37	ug/l	0.37	1.49	1	8260B		8/1/2023	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1.34	1	8260B		8/1/2023	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.9	1	8260B		8/1/2023	CJR	1
Carbon Tetrachloride	< 0.34	ug/l	0.34	1.39	1	8260B		8/1/2023	CJR	1
Chlorobenzene	< 0.29	ug/l	0.29	1.19	1	8260B		8/1/2023	CJR	1
Chloroethane	< 0.62	ug/l	0.62	2.54	1	8260B		8/1/2023	CJR	1
Chloroform	< 0.33	ug/l	0.33	1.33	1	8260B		8/1/2023	CJR	1
Chloromethane	< 0.74	ug/l	0.74	3.03	1	8260B		8/1/2023	CJR	1
2-Chlorotoluene	< 0.34	ug/l	0.34	1.37	1	8260B		8/1/2023	CJR	1
4-Chlorotoluene	< 0.4	ug/l	0.4	1.63	1	8260B		8/1/2023	CJR	1
1,2-Dibromo-3-chloropropane	< 0.74	ug/l	0.74	3.01	1	8260B		8/1/2023	CJR	1
Dibromochloromethane	< 0.36	ug/l	0.36	1.46	1	8260B		8/1/2023	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	2.01	1	8260B		8/1/2023	CJR	1
1,3-Dichlorobenzene	< 0.35	ug/l	0.35	1.44	1	8260B		8/1/2023	CJR	1
1,2-Dichlorobenzene	< 0.4	ug/l	0.4	1.65	1	8260B		8/1/2023	CJR	1
Dichlorodifluoromethane	< 0.3	ug/l	0.3	1.23	1	8260B		8/1/2023	CJR	1
1,2-Dichloroethane	< 0.43	ug/l	0.43	1.75	1	8260B		8/1/2023	CJR	1
1,1-Dichloroethane	1.27 "J"	ug/l	0.43	1.74	1	8260B		8/1/2023	CJR	1
1,1-Dichloroethene	< 0.43	ug/l	0.43	1.76	1	8260B		8/1/2023	CJR	1
cis-1,2-Dichloroethene	0.43 "J"	ug/l	0.32	1.29	1	8260B		8/1/2023	CJR	1
trans-1,2-Dichloroethene	0.52 "J"	ug/l	0.5	2.02	1	8260B		8/1/2023	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.58	1	8260B		8/1/2023	CJR	1
1,3-Dichloropropane	< 0.38	ug/l	0.38	1.55	1	8260B		8/1/2023	CJR	1
trans-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		8/1/2023	CJR	1
cis-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		8/1/2023	CJR	1
Di-isopropyl ether	< 0.48	ug/l	0.48	1.96	1	8260B		8/1/2023	CJR	1
EDB (1,2-Dibromoethane)	< 0.39	ug/l	0.39	1.59	1	8260B		8/1/2023	CJR	1
Ethylbenzene	< 0.33	ug/l	0.33	1.37	1	8260B		8/1/2023	CJR	1
Hexachlorobutadiene	< 0.81	ug/l	0.81	3.44	1	8260B		8/1/2023	CJR	1
Isopropylbenzene	< 0.34	ug/l	0.34	1.38	1	8260B		8/1/2023	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.91	1	8260B		8/1/2023	CJR	1
Methylene chloride	< 0.79	ug/l	0.79	3.23	1	8260B		8/1/2023	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.91	1	8260B		8/1/2023	CJR	1
Naphthalene	< 1.4	ug/l	1.4	5.56	1	8260B		8/1/2023	CJR	1
n-Propylbenzene	< 0.39	ug/l	0.39	1.6	1	8260B		8/1/2023	CJR	1
1,1,2,2-Tetrachloroethane	< 0.43	ug/l	0.43	1.77	1	8260B		8/1/2023	CJR	1
1,1,1,2-Tetrachloroethane	< 0.55	ug/l	0.55	2.25	1	8260B		8/1/2023	CJR	1
Tetrachloroethene	< 0.47	ug/l	0.47	1.91	1	8260B		8/1/2023	CJR	1
Toluene	< 0.33	ug/l	0.33	1.35	1	8260B		8/1/2023	CJR	1
1,2,4-Trichlorobenzene	< 0.63	ug/l	0.63	2.57	1	8260B		8/1/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725M
Sample ID 200032-DUP-1
Sample Matrix Water
Sample Date 7/26/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.4	ug/l	1.4	5.94	1	8260B		8/1/2023	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.34	1	8260B		8/1/2023	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.72	1	8260B		8/1/2023	CJR	1
Trichloroethene (TCE)	< 0.38	ug/l	0.38	1.55	1	8260B		8/1/2023	CJR	1
Trichlorofluoromethane	< 0.33	ug/l	0.33	1.35	1	8260B		8/1/2023	CJR	1
1,2,4-Trimethylbenzene	< 0.35	ug/l	0.35	1.44	1	8260B		8/1/2023	CJR	1
1,3,5-Trimethylbenzene	< 0.41	ug/l	0.41	1.66	1	8260B		8/1/2023	CJR	1
Vinyl Chloride	1.22	ug/l	0.15	0.61	1	8260B		8/1/2023	CJR	1
m&p-Xylene	< 0.64	ug/l	0.64	2.63	1	8260B		8/1/2023	CJR	1
o-Xylene	< 0.37	ug/l	0.37	1.51	1	8260B		8/1/2023	CJR	1
SUR - 1,2-Dichloroethane-d4	106	REC %			1	8260B		8/1/2023	CJR	1
SUR - 4-Bromofluorobenzene	122	REC %			1	8260B		8/1/2023	CJR	1
SUR - Dibromofluoromethane	118	REC %			1	8260B		8/1/2023	CJR	1
SUR - Toluene-d8	110	REC %			1	8260B		8/1/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725N
Sample ID 200032-DUP-2
Sample Matrix Water
Sample Date 7/26/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 300	ug/l	300	1250	1000	8260B		8/1/2023	CJR	1
Bromobenzene	< 340	ug/l	340	1400	1000	8260B		8/1/2023	CJR	1
Bromodichloromethane	< 360	ug/l	360	1470	1000	8260B		8/1/2023	CJR	1
Bromoform	< 420	ug/l	420	1720	1000	8260B		8/1/2023	CJR	1
tert-Butylbenzene	< 370	ug/l	370	1490	1000	8260B		8/1/2023	CJR	1
sec-Butylbenzene	< 330	ug/l	330	1340	1000	8260B		8/1/2023	CJR	1
n-Butylbenzene	< 710	ug/l	710	2900	1000	8260B		8/1/2023	CJR	1
Carbon Tetrachloride	< 340	ug/l	340	1390	1000	8260B		8/1/2023	CJR	1
Chlorobenzene	< 290	ug/l	290	1190	1000	8260B		8/1/2023	CJR	1
Chloroethane	< 620	ug/l	620	2540	1000	8260B		8/1/2023	CJR	1
Chloroform	< 330	ug/l	330	1330	1000	8260B		8/1/2023	CJR	1
Chloromethane	< 740	ug/l	740	3030	1000	8260B		8/1/2023	CJR	1
2-Chlorotoluene	< 340	ug/l	340	1370	1000	8260B		8/1/2023	CJR	1
4-Chlorotoluene	< 400	ug/l	400	1630	1000	8260B		8/1/2023	CJR	1
1,2-Dibromo-3-chloropropane	< 740	ug/l	740	3010	1000	8260B		8/1/2023	CJR	1
Dibromochloromethane	< 360	ug/l	360	1460	1000	8260B		8/1/2023	CJR	1
1,4-Dichlorobenzene	< 490	ug/l	490	2010	1000	8260B		8/1/2023	CJR	1
1,3-Dichlorobenzene	< 350	ug/l	350	1440	1000	8260B		8/1/2023	CJR	1
1,2-Dichlorobenzene	< 400	ug/l	400	1650	1000	8260B		8/1/2023	CJR	1
Dichlorodifluoromethane	< 300	ug/l	300	1230	1000	8260B		8/1/2023	CJR	1
1,2-Dichloroethane	< 430	ug/l	430	1750	1000	8260B		8/1/2023	CJR	1
1,1-Dichloroethane	< 430	ug/l	430	1740	1000	8260B		8/1/2023	CJR	1
1,1-Dichloroethene	< 430	ug/l	430	1760	1000	8260B		8/1/2023	CJR	1
cis-1,2-Dichloroethene	3200	ug/l	320	1290	1000	8260B		8/1/2023	CJR	1
trans-1,2-Dichloroethene	< 500	ug/l	500	2020	1000	8260B		8/1/2023	CJR	1
1,2-Dichloropropane	< 390	ug/l	390	1580	1000	8260B		8/1/2023	CJR	1
1,3-Dichloropropane	< 380	ug/l	380	1550	1000	8260B		8/1/2023	CJR	1
trans-1,3-Dichloropropene	< 410	ug/l	410	1670	1000	8260B		8/1/2023	CJR	1
cis-1,3-Dichloropropene	< 410	ug/l	410	1670	1000	8260B		8/1/2023	CJR	1
Di-isopropyl ether	< 480	ug/l	480	1960	1000	8260B		8/1/2023	CJR	1
EDB (1,2-Dibromoethane)	< 390	ug/l	390	1590	1000	8260B		8/1/2023	CJR	1
Ethylbenzene	< 330	ug/l	330	1370	1000	8260B		8/1/2023	CJR	1
Hexachlorobutadiene	< 810	ug/l	810	3440	1000	8260B		8/1/2023	CJR	1
Isopropylbenzene	< 340	ug/l	340	1380	1000	8260B		8/1/2023	CJR	1
p-Isopropyltoluene	< 470	ug/l	470	1910	1000	8260B		8/1/2023	CJR	1
Methylene chloride	< 790	ug/l	790	3230	1000	8260B		8/1/2023	CJR	1
Methyl tert-butyl ether (MTBE)	< 470	ug/l	470	1910	1000	8260B		8/1/2023	CJR	1
Naphthalene	< 1400	ug/l	1400	5560	1000	8260B		8/1/2023	CJR	1
n-Propylbenzene	< 390	ug/l	390	1600	1000	8260B		8/1/2023	CJR	1
1,1,2,2-Tetrachloroethane	< 430	ug/l	430	1770	1000	8260B		8/1/2023	CJR	1
1,1,1,2-Tetrachloroethane	< 550	ug/l	550	2250	1000	8260B		8/1/2023	CJR	1
Tetrachloroethene	< 470	ug/l	470	1910	1000	8260B		8/1/2023	CJR	1
Toluene	< 330	ug/l	330	1350	1000	8260B		8/1/2023	CJR	1
1,2,4-Trichlorobenzene	< 630	ug/l	630	2570	1000	8260B		8/1/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725N
Sample ID 200032-DUP-2
Sample Matrix Water
Sample Date 7/26/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1400	ug/l	1400	5940	1000	8260B		8/1/2023	CJR	1
1,1,1-Trichloroethane	< 330	ug/l	330	1340	1000	8260B		8/1/2023	CJR	1
1,1,2-Trichloroethane	< 420	ug/l	420	1720	1000	8260B		8/1/2023	CJR	1
Trichloroethene (TCE)	< 380	ug/l	380	1550	1000	8260B		8/1/2023	CJR	1
Trichlorofluoromethane	< 330	ug/l	330	1350	1000	8260B		8/1/2023	CJR	1
1,2,4-Trimethylbenzene	< 350	ug/l	350	1440	1000	8260B		8/1/2023	CJR	1
1,3,5-Trimethylbenzene	< 410	ug/l	410	1660	1000	8260B		8/1/2023	CJR	1
Vinyl Chloride	20100	ug/l	150	610	1000	8260B		8/1/2023	CJR	1
m&p-Xylene	< 640	ug/l	640	2630	1000	8260B		8/1/2023	CJR	1
o-Xylene	< 370	ug/l	370	1510	1000	8260B		8/1/2023	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1000	8260B		8/1/2023	CJR	1
SUR - 4-Bromofluorobenzene	120	REC %			1000	8260B		8/1/2023	CJR	1
SUR - Dibromofluoromethane	114	REC %			1000	8260B		8/1/2023	CJR	1
SUR - Toluene-d8	108	REC %			1000	8260B		8/1/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725O
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 7/26/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.3	ug/l	0.3	1.25	1	8260B		7/31/2023	CJR	1
Bromobenzene	< 0.34	ug/l	0.34	1.4	1	8260B		7/31/2023	CJR	1
Bromodichloromethane	< 0.36	ug/l	0.36	1.47	1	8260B		7/31/2023	CJR	1
Bromoform	< 0.42	ug/l	0.42	1.72	1	8260B		7/31/2023	CJR	1
tert-Butylbenzene	< 0.37	ug/l	0.37	1.49	1	8260B		7/31/2023	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1.34	1	8260B		7/31/2023	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.9	1	8260B		7/31/2023	CJR	1
Carbon Tetrachloride	< 0.34	ug/l	0.34	1.39	1	8260B		7/31/2023	CJR	1
Chlorobenzene	< 0.29	ug/l	0.29	1.19	1	8260B		7/31/2023	CJR	1
Chloroethane	< 0.62	ug/l	0.62	2.54	1	8260B		7/31/2023	CJR	1
Chloroform	< 0.33	ug/l	0.33	1.33	1	8260B		7/31/2023	CJR	1
Chloromethane	< 0.74	ug/l	0.74	3.03	1	8260B		7/31/2023	CJR	1
2-Chlorotoluene	< 0.34	ug/l	0.34	1.37	1	8260B		7/31/2023	CJR	1
4-Chlorotoluene	< 0.4	ug/l	0.4	1.63	1	8260B		7/31/2023	CJR	1
1,2-Dibromo-3-chloropropane	< 0.74	ug/l	0.74	3.01	1	8260B		7/31/2023	CJR	1
Dibromochloromethane	< 0.36	ug/l	0.36	1.46	1	8260B		7/31/2023	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	2.01	1	8260B		7/31/2023	CJR	1
1,3-Dichlorobenzene	< 0.35	ug/l	0.35	1.44	1	8260B		7/31/2023	CJR	1
1,2-Dichlorobenzene	< 0.4	ug/l	0.4	1.65	1	8260B		7/31/2023	CJR	1
Dichlorodifluoromethane	< 0.3	ug/l	0.3	1.23	1	8260B		7/31/2023	CJR	1
1,2-Dichloroethane	< 0.43	ug/l	0.43	1.75	1	8260B		7/31/2023	CJR	1
1,1-Dichloroethane	< 0.43	ug/l	0.43	1.74	1	8260B		7/31/2023	CJR	1
1,1-Dichloroethene	< 0.43	ug/l	0.43	1.76	1	8260B		7/31/2023	CJR	1
cis-1,2-Dichloroethene	< 0.32	ug/l	0.32	1.29	1	8260B		7/31/2023	CJR	1
trans-1,2-Dichloroethene	< 0.5	ug/l	0.5	2.02	1	8260B		7/31/2023	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.58	1	8260B		7/31/2023	CJR	1
1,3-Dichloropropane	< 0.38	ug/l	0.38	1.55	1	8260B		7/31/2023	CJR	1
trans-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		7/31/2023	CJR	1
cis-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		7/31/2023	CJR	1
Di-isopropyl ether	< 0.48	ug/l	0.48	1.96	1	8260B		7/31/2023	CJR	1
EDB (1,2-Dibromoethane)	< 0.39	ug/l	0.39	1.59	1	8260B		7/31/2023	CJR	1
Ethylbenzene	< 0.33	ug/l	0.33	1.37	1	8260B		7/31/2023	CJR	1
Hexachlorobutadiene	< 0.81	ug/l	0.81	3.44	1	8260B		7/31/2023	CJR	1
Isopropylbenzene	< 0.34	ug/l	0.34	1.38	1	8260B		7/31/2023	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.91	1	8260B		7/31/2023	CJR	1
Methylene chloride	< 0.79	ug/l	0.79	3.23	1	8260B		7/31/2023	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.91	1	8260B		7/31/2023	CJR	1
Naphthalene	< 1.4	ug/l	1.4	5.56	1	8260B		7/31/2023	CJR	1
n-Propylbenzene	< 0.39	ug/l	0.39	1.6	1	8260B		7/31/2023	CJR	1
1,1,2,2-Tetrachloroethane	< 0.43	ug/l	0.43	1.77	1	8260B		7/31/2023	CJR	1
1,1,1,2-Tetrachloroethane	< 0.55	ug/l	0.55	2.25	1	8260B		7/31/2023	CJR	1
Tetrachloroethene	< 0.47	ug/l	0.47	1.91	1	8260B		7/31/2023	CJR	1
Toluene	< 0.33	ug/l	0.33	1.35	1	8260B		7/31/2023	CJR	1
1,2,4-Trichlorobenzene	< 0.63	ug/l	0.63	2.57	1	8260B		7/31/2023	CJR	1

Project Name JAGEMANN PLATING **Invoice #** E42725
Project # 200032

Lab Code 5042725O
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 7/26/2023

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.4	ug/l	1.4	5.94	1	8260B		7/31/2023	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.34	1	8260B		7/31/2023	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.72	1	8260B		7/31/2023	CJR	1
Trichloroethene (TCE)	< 0.38	ug/l	0.38	1.55	1	8260B		7/31/2023	CJR	1
Trichlorofluoromethane	< 0.33	ug/l	0.33	1.35	1	8260B		7/31/2023	CJR	1
1,2,4-Trimethylbenzene	< 0.35	ug/l	0.35	1.44	1	8260B		7/31/2023	CJR	1
1,3,5-Trimethylbenzene	< 0.41	ug/l	0.41	1.66	1	8260B		7/31/2023	CJR	1
Vinyl Chloride	< 0.15	ug/l	0.15	0.61	1	8260B		7/31/2023	CJR	1
m&p-Xylene	< 0.64	ug/l	0.64	2.63	1	8260B		7/31/2023	CJR	1
o-Xylene	< 0.37	ug/l	0.37	1.51	1	8260B		7/31/2023	CJR	1
SUR - Toluene-d8	108	REC %			1	8260B		7/31/2023	CJR	1
SUR - 1,2-Dichloroethane-d4	109	REC %			1	8260B		7/31/2023	CJR	1
SUR - 4-Bromofluorobenzene	118	REC %			1	8260B		7/31/2023	CJR	1
SUR - Dibromofluoromethane	127	REC %			1	8260B		7/31/2023	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.

BLE denotes sub contract lab - Certification #445023150

CWT denotes sub contract lab - Certification #445126660

SL denotes sub contract lab - Certification #399089350

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature