

July 29, 2020

Joe Pearson  
AECOM  
11 East Superior St, Suite 260  
Duluth, MN 55802

RE: Project: 60626859 Blackhawk Valve Stati  
Pace Project No.: 10525806

Dear Joe Pearson:

Enclosed are the analytical results for sample(s) received by the laboratory on July 22, 2020. 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
- Pace Analytical Services - Minneapolis

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

Sincerely,



Tina Soltani  
tina.soltani@pacelabs.com  
(612) 607-6384  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## CERTIFICATIONS

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

### **Pace Analytical Services - Minneapolis MN**

<p>A2LA Certification #: 2926.01 Alabama Certification #: 40770 Alaska Contaminated Sites Certification #: 17-009 Alaska DW Certification #: MN00064 Arizona Certification #: AZ0014 Arkansas DW Certification #: MN00064 Arkansas WW Certification #: 88-0680 California Certification #: 2929 CNMI Saipan Certification #: MP0003 Colorado Certification #: MN00064 Connecticut Certification #: PH-0256 EPA Region 8+Wyoming DW Certification #: via MN 027-053-137 Florida Certification #: E87605 Georgia Certification #: 959 Guam EPA Certification #: MN00064 Hawaii Certification #: MN00064 Idaho Certification #: MN00064 Illinois Certification #: 200011 Indiana Certification #: C-MN-01 Iowa Certification #: 368 Kansas Certification #: E-10167 Kentucky DW Certification #: 90062 Kentucky WW Certification #: 90062 Louisiana DEQ Certification #: 03086 Louisiana DW Certification #: MN00064 Maine Certification #: MN00064 Maryland Certification #: 322 Massachusetts DWP Certification #: via MN 027-053-137 Michigan Certification #: 9909 Minnesota Certification #: 027-053-137 Minnesota Dept of Ag Certification #: via MN 027-053-137</p>	<p>Minnesota Petrofund Certification #: 1240 Mississippi Certification #: MN00064 Missouri Certification #: 10100 Montana Certification #: CERT0092 Nebraska Certification #: NE-OS-18-06 Nevada Certification #: MN00064 New Hampshire Certification #: 2081 New Jersey Certification #: MN002 New York Certification #: 11647 North Carolina DW Certification #: 27700 North Carolina WW Certification #: 530 North Dakota Certification #: R-036 Ohio DW Certification #: 41244 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507 Oregon Primary Certification #: MN300001 Oregon Secondary Certification #: MN200001 Pennsylvania Certification #: 68-00563 Puerto Rico Certification #: MN00064 South Carolina Certification #: 74003001 Tennessee Certification #: TN02818 Texas Certification #: T104704192 Utah Certification #: MN00064 Vermont Certification #: VT-027053137 Virginia Certification #: 460163 Washington Certification #: C486 West Virginia DEP Certification #: 382 West Virginia DW Certification #: 9952 C Wisconsin Certification #: 999407970 Wyoming UST Certification #: via A2LA 2926.01</p>
---	--

### **Pace Analytical Services Green Bay**

<p>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</p>	<p>Virginia VELAP ID: 460263 South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157 Federal Fish &amp; Wildlife Permit #: LE51774A-0</p>
--	---

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## SAMPLE SUMMARY

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525806001	B1-22	Solid	07/21/20 11:00	07/22/20 08:40
10525806002	TW-01	Water	07/21/20 12:30	07/22/20 08:40
10525806003	TB072120	Solid	07/21/20 00:00	07/22/20 08:40

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### SAMPLE ANALYTE COUNT

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10525806001	B1-22	WI MOD DRO	JVM	2	PASI-M
		WI MOD GRO	ALD	1	PASI-G
		ASTM D2974	JT1	1	PASI-M
		EPA 8270E by SIM	CH3	18	PASI-M
		EPA 8260	MDS	64	PASI-G
10525806002	TW-01	WI MOD DRO	TT2	2	PASI-M
		WI MOD GRO	ALD	1	PASI-G
		EPA 8270E by SIM	JNG, JZ	18	PASI-M
		EPA 8260	HNW	64	PASI-G
10525806003	TB072120	WI MOD GRO	ALD	1	PASI-G
		EPA 8260	MDS	61	PASI-G

PASI-G = Pace Analytical Services - Green Bay

PASI-M = Pace Analytical Services - Minneapolis

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### SUMMARY OF DETECTION

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>10525806001</b>	<b>B1-22</b>					
WI MOD DRO	WDRO C10-C28	6.4J	mg/kg	7.8	07/24/20 12:59	
WI MOD GRO	Gasoline Range Organics	8.1	mg/kg	5.4	07/27/20 11:02	GO
ASTM D2974	Percent Moisture	7.6	%	0.10	07/27/20 11:24	N2
EPA 8270E by SIM	Naphthalene	10.1	ug/kg	1.6	07/24/20 14:35	
EPA 8270E by SIM	Phenanthrene	2.7	ug/kg	2.5	07/24/20 14:35	
EPA 8260	1,2,4-Trimethylbenzene	127	ug/kg	64.9	07/24/20 13:27	
EPA 8260	1,3,5-Trimethylbenzene	48.6J	ug/kg	64.9	07/24/20 13:27	
EPA 8260	Benzene	270	ug/kg	64.9	07/24/20 13:27	
EPA 8260	Ethylbenzene	29.2J	ug/kg	64.9	07/24/20 13:27	
EPA 8260	Methylene Chloride	44.1J	ug/kg	95.2	07/24/20 13:27	
EPA 8260	Naphthalene	50.4J	ug/kg	98.5	07/24/20 13:27	
EPA 8260	Toluene	231	ug/kg	64.9	07/24/20 13:27	
EPA 8260	m&p-Xylene	139	ug/kg	130	07/24/20 13:27	
EPA 8260	n-Propylbenzene	85.2	ug/kg	64.9	07/24/20 13:27	
EPA 8260	o-Xylene	48.9J	ug/kg	64.9	07/24/20 13:27	
<b>10525806002</b>	<b>TW-01</b>					
WI MOD DRO	WDRO C10-C28	0.32	mg/L	0.12	07/23/20 09:11	T7
WI MOD GRO	Gasoline Range Organics	11000	ug/L	1000	07/29/20 09:34	G-
EPA 8270E by SIM	Fluoranthene	0.012J	ug/L	0.035	07/28/20 22:35	
EPA 8270E by SIM	Naphthalene	11.0	ug/L	0.073	07/29/20 13:26	
EPA 8270E by SIM	Pyrene	0.019J	ug/L	0.051	07/28/20 22:35	
EPA 8260	1,2,4-Trimethylbenzene	21.9J	ug/L	28.0	07/24/20 12:45	
EPA 8260	Benzene	4810	ug/L	100	07/27/20 09:28	
EPA 8260	Ethylbenzene	86.5	ug/L	10.6	07/24/20 12:45	M1
EPA 8260	Isopropylbenzene (Cumene)	19.6J	ug/L	56.2	07/24/20 12:45	
EPA 8260	Toluene	998	ug/L	9.0	07/24/20 12:45	
EPA 8260	m&p-Xylene	131	ug/L	20.0	07/24/20 12:45	
EPA 8260	o-Xylene	39.0	ug/L	10.0	07/24/20 12:45	
<b>10525806003</b>	<b>TB072120</b>					
EPA 8260	Methylene Chloride	43.5J	ug/kg	88.0	07/27/20 14:10	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### ANALYTICAL RESULTS

Project: 60626859 Blackhawk Valve Stati  
Pace Project No.: 10525806

**Sample: B1-22**      **Lab ID: 10525806001**      Collected: 07/21/20 11:00      Received: 07/22/20 08:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>WIDRO GCS</b>									
Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Pace Analytical Services - Minneapolis									
WDRO C10-C28	<b>6.4J</b>	mg/kg	7.8	2.3	1	07/23/20 09:30	07/24/20 12:59		
<b>Surrogates</b>									
n-Triacontane (S)	76	%	50-150		1	07/23/20 09:30	07/24/20 12:59	638-68-6	
<b>WIGRO GCV</b>									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Pace Analytical Services - Green Bay									
Gasoline Range Organics	<b>8.1</b>	mg/kg	5.4	2.7	1	07/27/20 08:45	07/27/20 11:02		GO
<b>Dry Weight / %M by ASTM D2974</b>									
Analytical Method: ASTM D2974									
Pace Analytical Services - Minneapolis									
Percent Moisture	<b>7.6</b>	%	0.10	0.10	1		07/27/20 11:24		N2
<b>8270E MSSV PAH by SIM</b>									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C									
Pace Analytical Services - Minneapolis									
Acenaphthene	<b>&lt;0.48</b>	ug/kg	1.6	0.48	1	07/23/20 10:16	07/24/20 14:35	83-32-9	
Acenaphthylene	<b>&lt;0.74</b>	ug/kg	2.5	0.74	1	07/23/20 10:16	07/24/20 14:35	208-96-8	
Anthracene	<b>&lt;0.34</b>	ug/kg	1.1	0.34	1	07/23/20 10:16	07/24/20 14:35	120-12-7	
Benzo(a)anthracene	<b>&lt;0.45</b>	ug/kg	1.5	0.45	1	07/23/20 10:16	07/24/20 14:35	56-55-3	
Benzo(a)pyrene	<b>&lt;0.61</b>	ug/kg	2.0	0.61	1	07/23/20 10:16	07/24/20 14:35	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.50</b>	ug/kg	1.7	0.50	1	07/23/20 10:16	07/24/20 14:35	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.50</b>	ug/kg	1.7	0.50	1	07/23/20 10:16	07/24/20 14:35	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.52</b>	ug/kg	1.7	0.52	1	07/23/20 10:16	07/24/20 14:35	207-08-9	
Chrysene	<b>&lt;0.43</b>	ug/kg	1.4	0.43	1	07/23/20 10:16	07/24/20 14:35	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.71</b>	ug/kg	2.4	0.71	1	07/23/20 10:16	07/24/20 14:35	53-70-3	
Fluoranthene	<b>&lt;0.65</b>	ug/kg	2.2	0.65	1	07/23/20 10:16	07/24/20 14:35	206-44-0	
Fluorene	<b>&lt;0.65</b>	ug/kg	2.2	0.65	1	07/23/20 10:16	07/24/20 14:35	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.58</b>	ug/kg	1.9	0.58	1	07/23/20 10:16	07/24/20 14:35	193-39-5	
Naphthalene	<b>10.1</b>	ug/kg	1.6	0.49	1	07/23/20 10:16	07/24/20 14:35	91-20-3	
Phenanthrene	<b>2.7</b>	ug/kg	2.5	0.76	1	07/23/20 10:16	07/24/20 14:35	85-01-8	
Pyrene	<b>&lt;0.70</b>	ug/kg	2.3	0.70	1	07/23/20 10:16	07/24/20 14:35	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	68	%	30-138		1	07/23/20 10:16	07/24/20 14:35	321-60-8	
p-Terphenyl-d14 (S)	82	%	30-143		1	07/23/20 10:16	07/24/20 14:35	1718-51-0	
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<b>&lt;25.0</b>	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	630-20-6	W
1,1,1-Trichloroethane	<b>&lt;25.0</b>	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	71-55-6	W
1,1,2,2-Tetrachloroethane	<b>&lt;25.0</b>	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	79-34-5	W
1,1,2-Trichloroethane	<b>&lt;25.0</b>	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	79-00-5	W
1,1-Dichloroethane	<b>&lt;25.0</b>	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	75-34-3	W
1,1-Dichloroethene	<b>&lt;25.0</b>	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	75-35-4	W
1,1-Dichloropropene	<b>&lt;25.0</b>	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	563-58-6	W
1,2,3-Trichlorobenzene	<b>&lt;47.3</b>	ug/kg	158	47.3	1	07/24/20 07:30	07/24/20 13:27	87-61-6	W

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## ANALYTICAL RESULTS

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

**Sample: B1-22**      **Lab ID: 10525806001**      Collected: 07/21/20 11:00      Received: 07/22/20 08:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,2,3-Trichloropropane	<37.4	ug/kg	125	37.4	1	07/24/20 07:30	07/24/20 13:27	96-18-4	W
1,2,4-Trichlorobenzene	<41.7	ug/kg	250	41.7	1	07/24/20 07:30	07/24/20 13:27	120-82-1	W
1,2,4-Trimethylbenzene	127	ug/kg	64.9	27.1	1	07/24/20 07:30	07/24/20 13:27	95-63-6	
1,2-Dibromo-3-chloropropane	<237	ug/kg	789	237	1	07/24/20 07:30	07/24/20 13:27	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	78-87-5	W
1,3,5-Trimethylbenzene	48.6J	ug/kg	64.9	27.1	1	07/24/20 07:30	07/24/20 13:27	108-67-8	
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	64.0	25.0	1	07/24/20 07:30	07/24/20 13:27	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	64.0	25.0	1	07/24/20 07:30	07/24/20 13:27	106-43-4	W
Benzene	270	ug/kg	64.9	27.1	1	07/24/20 07:30	07/24/20 13:27	71-43-2	
Bromobenzene	<25.0	ug/kg	62.0	25.0	1	07/24/20 07:30	07/24/20 13:27	108-86-1	W
Bromochloromethane	<25.0	ug/kg	70.0	25.0	1	07/24/20 07:30	07/24/20 13:27	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	75-27-4	W
Bromoform	<25.0	ug/kg	72.0	25.0	1	07/24/20 07:30	07/24/20 13:27	75-25-2	W
Bromomethane	<63.8	ug/kg	250	63.8	1	07/24/20 07:30	07/24/20 13:27	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	108-90-7	W
Chloroethane	<46.4	ug/kg	250	46.4	1	07/24/20 07:30	07/24/20 13:27	75-00-3	W
Chloroform	<47.5	ug/kg	250	47.5	1	07/24/20 07:30	07/24/20 13:27	67-66-3	W
Chloromethane	<25.0	ug/kg	80.0	25.0	1	07/24/20 07:30	07/24/20 13:27	74-87-3	W
Dibromochloromethane	<229	ug/kg	763	229	1	07/24/20 07:30	07/24/20 13:27	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	72.0	25.0	1	07/24/20 07:30	07/24/20 13:27	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	108-20-3	W
Ethylbenzene	29.2J	ug/kg	64.9	27.1	1	07/24/20 07:30	07/24/20 13:27	100-41-4	
Hexachloro-1,3-butadiene	<68.7	ug/kg	229	68.7	1	07/24/20 07:30	07/24/20 13:27	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	1634-04-4	W
Methylene Chloride	44.1J	ug/kg	95.2	28.4	1	07/24/20 07:30	07/24/20 13:27	75-09-2	
Naphthalene	50.4J	ug/kg	98.5	29.5	1	07/24/20 07:30	07/24/20 13:27	91-20-3	
Styrene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	100-42-5	W
Tetrachloroethene	<38.7	ug/kg	129	38.7	1	07/24/20 07:30	07/24/20 13:27	127-18-4	W
Toluene	231	ug/kg	64.9	27.1	1	07/24/20 07:30	07/24/20 13:27	108-88-3	
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	65.0	25.0	1	07/24/20 07:30	07/24/20 13:27	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	75-01-4	L1,W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/24/20 13:27	156-59-2	W
cis-1,3-Dichloropropene	<42.3	ug/kg	141	42.3	1	07/24/20 07:30	07/24/20 13:27	10061-01-5	W

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## ANALYTICAL RESULTS

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

**Sample: B1-22**      **Lab ID: 10525806001**      Collected: 07/21/20 11:00      Received: 07/22/20 08:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
m&p-Xylene	<b>139</b>	ug/kg	130	54.1	1	07/24/20 07:30	07/24/20 13:27	179601-23-1	
n-Butylbenzene	<b>&lt;30.0</b>	ug/kg	100	30.0	1	07/24/20 07:30	07/24/20 13:27	104-51-8	W
n-Propylbenzene	<b>85.2</b>	ug/kg	64.9	27.1	1	07/24/20 07:30	07/24/20 13:27	103-65-1	
o-Xylene	<b>48.9J</b>	ug/kg	64.9	27.1	1	07/24/20 07:30	07/24/20 13:27	95-47-6	
p-Isopropyltoluene	<b>&lt;25.0</b>	ug/kg	72.0	25.0	1	07/24/20 07:30	07/24/20 13:27	99-87-6	W
sec-Butylbenzene	<b>&lt;25.0</b>	ug/kg	72.0	25.0	1	07/24/20 07:30	07/24/20 13:27	135-98-8	W
tert-Butylbenzene	<b>&lt;25.0</b>	ug/kg	62.0	25.0	1	07/24/20 07:30	07/24/20 13:27	98-06-6	W
trans-1,2-Dichloroethene	<b>&lt;25.0</b>	ug/kg	67.0	25.0	1	07/24/20 07:30	07/24/20 13:27	156-60-5	W
trans-1,3-Dichloropropene	<b>&lt;25.0</b>	ug/kg	74.0	25.0	1	07/24/20 07:30	07/24/20 13:27	10061-02-6	W
<b>Surrogates</b>									
Dibromofluoromethane (S)	108	%	58-145		1	07/24/20 07:30	07/24/20 13:27	1868-53-7	
Toluene-d8 (S)	113	%	56-140		1	07/24/20 07:30	07/24/20 13:27	2037-26-5	
4-Bromofluorobenzene (S)	112	%	52-137		1	07/24/20 07:30	07/24/20 13:27	460-00-4	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.



### ANALYTICAL RESULTS

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

**Sample: TW-01**      **Lab ID: 10525806002**      Collected: 07/21/20 12:30      Received: 07/22/20 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>WIDRO LV GCS</b>									
Analytical Method: WI MOD DRO    Preparation Method: WI MOD DRO Pace Analytical Services - Minneapolis									
WDRO C10-C28	<b>0.32</b>	mg/L	0.12	0.036	1	07/22/20 17:31	07/23/20 09:11		T7
<b>Surrogates</b>									
n-Triacontane (S)	72	%	50-150		1	07/22/20 17:31	07/23/20 09:11	638-68-6	
<b>WIGRO GCV</b>									
Analytical Method: WI MOD GRO Pace Analytical Services - Green Bay									
Gasoline Range Organics	<b>11000</b>	ug/L	1000	305	10		07/29/20 09:34		G-
<b>8270E MSSV PAH by SIM</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis									
Acenaphthene	<b>&lt;0.0081</b>	ug/L	0.027	0.0081	1	07/27/20 16:24	07/28/20 22:35	83-32-9	
Acenaphthylene	<b>&lt;0.0064</b>	ug/L	0.021	0.0064	1	07/27/20 16:24	07/28/20 22:35	208-96-8	
Anthracene	<b>&lt;0.0082</b>	ug/L	0.027	0.0082	1	07/27/20 16:24	07/28/20 22:35	120-12-7	
Benzo(a)anthracene	<b>&lt;0.012</b>	ug/L	0.039	0.012	1	07/27/20 16:24	07/28/20 22:35	56-55-3	
Benzo(a)pyrene	<b>&lt;0.0088</b>	ug/L	0.029	0.0088	1	07/27/20 16:24	07/28/20 22:35	50-32-8	
Benzo(b)fluoranthene	<b>&lt;0.0078</b>	ug/L	0.026	0.0078	1	07/27/20 16:24	07/28/20 22:35	205-99-2	
Benzo(g,h,i)perylene	<b>&lt;0.0084</b>	ug/L	0.028	0.0084	1	07/27/20 16:24	07/28/20 22:35	191-24-2	
Benzo(k)fluoranthene	<b>&lt;0.0085</b>	ug/L	0.028	0.0085	1	07/27/20 16:24	07/28/20 22:35	207-08-9	
Chrysene	<b>&lt;0.011</b>	ug/L	0.037	0.011	1	07/27/20 16:24	07/28/20 22:35	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;0.011</b>	ug/L	0.036	0.011	1	07/27/20 16:24	07/28/20 22:35	53-70-3	
Fluoranthene	<b>0.012J</b>	ug/L	0.035	0.011	1	07/27/20 16:24	07/28/20 22:35	206-44-0	
Fluorene	<b>&lt;0.0068</b>	ug/L	0.023	0.0068	1	07/27/20 16:24	07/28/20 22:35	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;0.019</b>	ug/L	0.064	0.019	1	07/27/20 16:24	07/28/20 22:35	193-39-5	
Naphthalene	<b>11.0</b>	ug/L	0.073	0.022	2	07/27/20 16:24	07/29/20 13:26	91-20-3	
Phenanthrene	<b>&lt;0.010</b>	ug/L	0.034	0.010	1	07/27/20 16:24	07/28/20 22:35	85-01-8	
Pyrene	<b>0.019J</b>	ug/L	0.051	0.015	1	07/27/20 16:24	07/28/20 22:35	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	58	%	50-125		1	07/27/20 16:24	07/28/20 22:35	321-60-8	
p-Terphenyl-d14 (S)	76	%	58-125		1	07/27/20 16:24	07/28/20 22:35	1718-51-0	
<b>8260 MSV</b>									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<b>&lt;2.7</b>	ug/L	10.0	2.7	10		07/24/20 12:45	630-20-6	
1,1,1-Trichloroethane	<b>&lt;2.4</b>	ug/L	10.0	2.4	10		07/24/20 12:45	71-55-6	
1,1,2,2-Tetrachloroethane	<b>&lt;2.8</b>	ug/L	10.0	2.8	10		07/24/20 12:45	79-34-5	
1,1,2-Trichloroethane	<b>&lt;5.5</b>	ug/L	50.0	5.5	10		07/24/20 12:45	79-00-5	
1,1-Dichloroethane	<b>&lt;2.7</b>	ug/L	10.0	2.7	10		07/24/20 12:45	75-34-3	
1,1-Dichloroethene	<b>&lt;2.4</b>	ug/L	10.0	2.4	10		07/24/20 12:45	75-35-4	
1,1-Dichloropropene	<b>&lt;5.4</b>	ug/L	18.0	5.4	10		07/24/20 12:45	563-58-6	
1,2,3-Trichlorobenzene	<b>&lt;22.1</b>	ug/L	73.7	22.1	10		07/24/20 12:45	87-61-6	
1,2,3-Trichloropropane	<b>&lt;5.9</b>	ug/L	50.0	5.9	10		07/24/20 12:45	96-18-4	
1,2,4-Trichlorobenzene	<b>&lt;9.5</b>	ug/L	50.0	9.5	10		07/24/20 12:45	120-82-1	
1,2,4-Trimethylbenzene	<b>21.9J</b>	ug/L	28.0	8.4	10		07/24/20 12:45	95-63-6	
1,2-Dibromo-3-chloropropane	<b>&lt;17.6</b>	ug/L	58.8	17.6	10		07/24/20 12:45	96-12-8	R1
1,2-Dibromoethane (EDB)	<b>&lt;8.3</b>	ug/L	27.6	8.3	10		07/24/20 12:45	106-93-4	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## ANALYTICAL RESULTS

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

**Sample:** TW-01      **Lab ID:** 10525806002      Collected: 07/21/20 12:30      Received: 07/22/20 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		07/24/20 12:45	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		07/24/20 12:45	107-06-2	M1
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		07/24/20 12:45	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		07/24/20 12:45	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		07/24/20 12:45	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		07/24/20 12:45	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		07/24/20 12:45	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		07/24/20 12:45	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		07/24/20 12:45	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		07/24/20 12:45	106-43-4	
Benzene	4810	ug/L	100	24.6	100		07/27/20 09:28	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		07/24/20 12:45	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		07/24/20 12:45	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		07/24/20 12:45	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		07/24/20 12:45	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		07/24/20 12:45	74-83-9	
Carbon tetrachloride	<10.8	ug/L	35.9	10.8	10		07/24/20 12:45	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		07/24/20 12:45	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		07/24/20 12:45	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		07/24/20 12:45	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		07/24/20 12:45	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		07/24/20 12:45	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		07/24/20 12:45	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		07/24/20 12:45	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		07/24/20 12:45	108-20-3	
Ethylbenzene	86.5	ug/L	10.6	3.2	10		07/24/20 12:45	100-41-4	M1
Hexachloro-1,3-butadiene	<14.6	ug/L	48.8	14.6	10		07/24/20 12:45	87-68-3	
Isopropylbenzene (Cumene)	19.6J	ug/L	56.2	16.9	10		07/24/20 12:45	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		07/24/20 12:45	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		07/24/20 12:45	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		07/24/20 12:45	91-20-3	
Styrene	<30.1	ug/L	100	30.1	10		07/24/20 12:45	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		07/24/20 12:45	127-18-4	
Toluene	998	ug/L	9.0	2.7	10		07/24/20 12:45	108-88-3	
Trichloroethene	<2.6	ug/L	10.0	2.6	10		07/24/20 12:45	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		07/24/20 12:45	75-69-4	
Vinyl chloride	<1.7	ug/L	10.0	1.7	10		07/24/20 12:45	75-01-4	
cis-1,2-Dichloroethene	<2.7	ug/L	10.0	2.7	10		07/24/20 12:45	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		07/24/20 12:45	10061-01-5	
m&p-Xylene	131	ug/L	20.0	4.7	10		07/24/20 12:45	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		07/24/20 12:45	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		07/24/20 12:45	103-65-1	
o-Xylene	39.0	ug/L	10.0	2.6	10		07/24/20 12:45	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		07/24/20 12:45	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		07/24/20 12:45	135-98-8	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## ANALYTICAL RESULTS

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

**Sample: TW-01**      **Lab ID: 10525806002**      Collected: 07/21/20 12:30      Received: 07/22/20 08:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		07/24/20 12:45	98-06-6	
trans-1,2-Dichloroethene	<4.6	ug/L	15.5	4.6	10		07/24/20 12:45	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		07/24/20 12:45	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		10		07/24/20 12:45	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		10		07/24/20 12:45	1868-53-7	
Toluene-d8 (S)	101	%	70-130		10		07/24/20 12:45	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## ANALYTICAL RESULTS

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

**Sample: TB072120**      **Lab ID: 10525806003**      Collected: 07/21/20 00:00      Received: 07/22/20 08:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>WIGRO GCV</b>									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Pace Analytical Services - Green Bay									
Gasoline Range Organics	<2.5	mg/kg	5.0	2.5	1	07/27/20 08:45	07/27/20 14:26		
<b>8260 MSV Med Level Normal List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	563-58-6	W
1,2,3-Trichlorobenzene	<47.3	ug/kg	158	47.3	1	07/24/20 07:30	07/27/20 14:10	87-61-6	W
1,2,3-Trichloropropane	<37.4	ug/kg	125	37.4	1	07/24/20 07:30	07/27/20 14:10	96-18-4	W
1,2,4-Trichlorobenzene	<41.7	ug/kg	250	41.7	1	07/24/20 07:30	07/27/20 14:10	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	95-63-6	W
1,2-Dibromo-3-chloropropane	<237	ug/kg	789	237	1	07/24/20 07:30	07/27/20 14:10	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	64.0	25.0	1	07/24/20 07:30	07/27/20 14:10	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	64.0	25.0	1	07/24/20 07:30	07/27/20 14:10	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	71-43-2	W
Bromobenzene	<25.0	ug/kg	62.0	25.0	1	07/24/20 07:30	07/27/20 14:10	108-86-1	W
Bromochloromethane	<25.0	ug/kg	70.0	25.0	1	07/24/20 07:30	07/27/20 14:10	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	75-27-4	W
Bromoform	<25.0	ug/kg	72.0	25.0	1	07/24/20 07:30	07/27/20 14:10	75-25-2	W
Bromomethane	<63.8	ug/kg	250	63.8	1	07/24/20 07:30	07/27/20 14:10	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	108-90-7	W
Chloroethane	<46.4	ug/kg	250	46.4	1	07/24/20 07:30	07/27/20 14:10	75-00-3	W
Chloroform	<47.5	ug/kg	250	47.5	1	07/24/20 07:30	07/27/20 14:10	67-66-3	W
Chloromethane	<25.0	ug/kg	80.0	25.0	1	07/24/20 07:30	07/27/20 14:10	74-87-3	W
Dibromochloromethane	<229	ug/kg	763	229	1	07/24/20 07:30	07/27/20 14:10	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	72.0	25.0	1	07/24/20 07:30	07/27/20 14:10	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	100-41-4	W
Hexachloro-1,3-butadiene	<68.7	ug/kg	229	68.7	1	07/24/20 07:30	07/27/20 14:10	87-68-3	W

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## ANALYTICAL RESULTS

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

**Sample: TB072120**      **Lab ID: 10525806003**      Collected: 07/21/20 00:00      Received: 07/22/20 08:40      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Normal List</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B Pace Analytical Services - Green Bay							
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	1634-04-4	W
Methylene Chloride	43.5J	ug/kg	88.0	26.3	1	07/24/20 07:30	07/27/20 14:10	75-09-2	
Naphthalene	<27.3	ug/kg	91.0	27.3	1	07/24/20 07:30	07/27/20 14:10	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	100-42-5	W
Tetrachloroethene	<38.7	ug/kg	129	38.7	1	07/24/20 07:30	07/27/20 14:10	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	65.0	25.0	1	07/24/20 07:30	07/27/20 14:10	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	75-01-4	L1,W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	156-59-2	W
cis-1,3-Dichloropropene	<42.3	ug/kg	141	42.3	1	07/24/20 07:30	07/27/20 14:10	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	07/24/20 07:30	07/27/20 14:10	179601-23-1	W
n-Butylbenzene	<30.0	ug/kg	100	30.0	1	07/24/20 07:30	07/27/20 14:10	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	07/24/20 07:30	07/27/20 14:10	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	72.0	25.0	1	07/24/20 07:30	07/27/20 14:10	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	72.0	25.0	1	07/24/20 07:30	07/27/20 14:10	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	62.0	25.0	1	07/24/20 07:30	07/27/20 14:10	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	67.0	25.0	1	07/24/20 07:30	07/27/20 14:10	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	74.0	25.0	1	07/24/20 07:30	07/27/20 14:10	10061-02-6	W

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL DATA

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

QC Batch: 361227

Analysis Method: WI MOD GRO

QC Batch Method: TPH GRO/PVOC WI ext.

Analysis Description: WIGRO Solid GCV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 10525806001, 10525806003

METHOD BLANK: 2088725

Matrix: Solid

Associated Lab Samples: 10525806001, 10525806003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	<1.2	4.1	07/27/20 09:45	
a,a,a-Trifluorotoluene (S)	%	103	80-120	07/27/20 09:45	

LABORATORY CONTROL SAMPLE & LCSD: 2088726

2088727

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	10	10.3	10.7	103	107	80-120	4	20	
a,a,a-Trifluorotoluene (S)	%				102	101	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

**QUALITY CONTROL DATA**

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

QC Batch: 361393	Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO	Analysis Description: WIGRO GCV Water
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 10525806002

METHOD BLANK: 2089174 Matrix: Water

Associated Lab Samples: 10525806002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	<30.5	100	07/28/20 10:50	
a,a,a-Trifluorotoluene (S)	%	87	80-120	07/28/20 10:50	

Parameter	Units	2089175		2089176		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Gasoline Range Organics	ug/L	200	182	193	91	97	80-120	6	20
a,a,a-Trifluorotoluene (S)	%				88	88	80-120		

Parameter	Units	2089694		2089695		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result				
a,a,a-Trifluorotoluene (S)	%	40211676001				89	89	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

**QUALITY CONTROL DATA**

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

QC Batch: 689206

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight / %M by ASTM D2974

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525806001

SAMPLE DUPLICATE: 3686104

Parameter	Units	10525736009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.2	5.6	7	30	N2

SAMPLE DUPLICATE: 3686312

Parameter	Units	10525471001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	48.2	48.0	0	30	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.



### QUALITY CONTROL DATA

Project: 60626859 Blackhawk Valve Stati  
Pace Project No.: 10525806

QC Batch: 361127 Analysis Method: EPA 8260  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 10525806001, 10525806003

METHOD BLANK: 2087692 Matrix: Solid

Associated Lab Samples: 10525806001, 10525806003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<7.8	50.0	07/24/20 10:45	
1,1,1-Trichloroethane	ug/kg	<13.5	50.0	07/24/20 10:45	
1,1,2,2-Tetrachloroethane	ug/kg	<15.7	52.0	07/24/20 10:45	
1,1,2-Trichloroethane	ug/kg	<15.7	52.0	07/24/20 10:45	
1,1-Dichloroethane	ug/kg	<13.5	50.0	07/24/20 10:45	
1,1-Dichloroethene	ug/kg	<11.8	50.0	07/24/20 10:45	
1,1-Dichloropropene	ug/kg	<10.7	50.0	07/24/20 10:45	
1,2,3-Trichlorobenzene	ug/kg	<47.3	158	07/24/20 10:45	
1,2,3-Trichloropropane	ug/kg	<37.4	125	07/24/20 10:45	
1,2,4-Trichlorobenzene	ug/kg	<41.7	250	07/24/20 10:45	
1,2,4-Trimethylbenzene	ug/kg	<18.1	60.0	07/24/20 10:45	
1,2-Dibromo-3-chloropropane	ug/kg	<237	789	07/24/20 10:45	
1,2-Dibromoethane (EDB)	ug/kg	<17.0	57.0	07/24/20 10:45	
1,2-Dichlorobenzene	ug/kg	<13.1	50.0	07/24/20 10:45	
1,2-Dichloroethane	ug/kg	<13.8	50.0	07/24/20 10:45	
1,2-Dichloropropane	ug/kg	<13.5	50.0	07/24/20 10:45	
1,3,5-Trimethylbenzene	ug/kg	<16.0	53.0	07/24/20 10:45	
1,3-Dichlorobenzene	ug/kg	<13.0	50.0	07/24/20 10:45	
1,3-Dichloropropane	ug/kg	<11.0	50.0	07/24/20 10:45	
1,4-Dichlorobenzene	ug/kg	<12.0	50.0	07/24/20 10:45	
2,2-Dichloropropane	ug/kg	<15.7	52.0	07/24/20 10:45	
2-Chlorotoluene	ug/kg	<19.3	64.0	07/24/20 10:45	
4-Chlorotoluene	ug/kg	<19.3	64.0	07/24/20 10:45	
Benzene	ug/kg	<12.5	42.0	07/24/20 10:45	
Bromobenzene	ug/kg	<18.5	62.0	07/24/20 10:45	
Bromochloromethane	ug/kg	<20.9	70.0	07/24/20 10:45	
Bromodichloromethane	ug/kg	<10.0	50.0	07/24/20 10:45	
Bromoform	ug/kg	<21.6	72.0	07/24/20 10:45	
Bromomethane	ug/kg	<63.8	250	07/24/20 10:45	
Carbon tetrachloride	ug/kg	<7.5	50.0	07/24/20 10:45	
Chlorobenzene	ug/kg	<16.8	56.0	07/24/20 10:45	
Chloroethane	ug/kg	<46.4	250	07/24/20 10:45	
Chloroform	ug/kg	<47.5	250	07/24/20 10:45	
Chloromethane	ug/kg	<24.0	80.0	07/24/20 10:45	
cis-1,2-Dichloroethene	ug/kg	<14.8	50.0	07/24/20 10:45	
cis-1,3-Dichloropropene	ug/kg	<42.3	141	07/24/20 10:45	
Dibromochloromethane	ug/kg	<229	763	07/24/20 10:45	
Dibromomethane	ug/kg	<17.7	59.0	07/24/20 10:45	
Dichlorodifluoromethane	ug/kg	<21.7	72.0	07/24/20 10:45	
Diisopropyl ether	ug/kg	<14.0	50.0	07/24/20 10:45	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL DATA

Project: 60626859 Blackhawk Valve Stati  
Pace Project No.: 10525806

METHOD BLANK: 2087692 Matrix: Solid  
Associated Lab Samples: 10525806001, 10525806003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<14.5	50.0	07/24/20 10:45	
Hexachloro-1,3-butadiene	ug/kg	<68.7	229	07/24/20 10:45	
Isopropylbenzene (Cumene)	ug/kg	<17.7	59.0	07/24/20 10:45	
m&p-Xylene	ug/kg	<32.4	108	07/24/20 10:45	
Methyl-tert-butyl ether	ug/kg	<16.2	54.0	07/24/20 10:45	
Methylene Chloride	ug/kg	<26.3	88.0	07/24/20 10:45	
n-Butylbenzene	ug/kg	<30.0	100	07/24/20 10:45	
n-Propylbenzene	ug/kg	<17.8	59.0	07/24/20 10:45	
Naphthalene	ug/kg	<27.3	91.0	07/24/20 10:45	
o-Xylene	ug/kg	<18.1	60.0	07/24/20 10:45	
p-Isopropyltoluene	ug/kg	<21.7	72.0	07/24/20 10:45	
sec-Butylbenzene	ug/kg	<21.5	72.0	07/24/20 10:45	
Styrene	ug/kg	<12.3	50.0	07/24/20 10:45	
tert-Butylbenzene	ug/kg	<18.7	62.0	07/24/20 10:45	
Tetrachloroethene	ug/kg	<38.7	129	07/24/20 10:45	
Toluene	ug/kg	<13.1	50.0	07/24/20 10:45	
trans-1,2-Dichloroethene	ug/kg	<20.2	67.0	07/24/20 10:45	
trans-1,3-Dichloropropene	ug/kg	<22.2	74.0	07/24/20 10:45	
Trichloroethene	ug/kg	<12.8	50.0	07/24/20 10:45	
Trichlorofluoromethane	ug/kg	<19.6	65.0	07/24/20 10:45	
Vinyl chloride	ug/kg	<14.5	50.0	07/24/20 10:45	
4-Bromofluorobenzene (S)	%	105	52-137	07/24/20 10:45	
Dibromofluoromethane (S)	%	102	58-145	07/24/20 10:45	
Toluene-d8 (S)	%	106	56-140	07/24/20 10:45	

LABORATORY CONTROL SAMPLE: 2087693

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2660	106	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	3210	128	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2710	108	70-130	
1,1-Dichloroethane	ug/kg	2500	2850	114	69-143	
1,1-Dichloroethene	ug/kg	2500	2590	104	73-118	
1,2,4-Trichlorobenzene	ug/kg	2500	2940	117	60-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	3240	130	66-130	
1,2-Dibromoethane (EDB)	ug/kg	2500	2730	109	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2850	114	70-130	
1,2-Dichloroethane	ug/kg	2500	2680	107	70-130	
1,2-Dichloropropane	ug/kg	2500	2890	116	78-126	
1,3-Dichlorobenzene	ug/kg	2500	2790	112	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2840	114	70-130	
Benzene	ug/kg	2500	2800	112	70-130	
Bromodichloromethane	ug/kg	2500	2690	108	70-130	
Bromoform	ug/kg	2500	2400	96	67-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL DATA

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

LABORATORY CONTROL SAMPLE: 2087693

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/kg	2500	1660	66	45-134	
Carbon tetrachloride	ug/kg	2500	2640	106	70-130	
Chlorobenzene	ug/kg	2500	2500	100	70-130	
Chloroethane	ug/kg	2500	1580	63	58-143	
Chloroform	ug/kg	2500	2640	106	76-122	
Chloromethane	ug/kg	2500	2660	106	45-120	
cis-1,2-Dichloroethene	ug/kg	2500	2670	107	69-130	
cis-1,3-Dichloropropene	ug/kg	2500	2600	104	70-130	
Dibromochloromethane	ug/kg	2500	2720	109	70-130	
Dichlorodifluoromethane	ug/kg	2500	1830	73	26-99	
Ethylbenzene	ug/kg	2500	2710	109	80-120	
Isopropylbenzene (Cumene)	ug/kg	2500	2420	97	70-130	
m&p-Xylene	ug/kg	5000	5340	107	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2840	114	70-130	
Methylene Chloride	ug/kg	2500	2650	106	70-130	
o-Xylene	ug/kg	2500	2750	110	70-130	
Styrene	ug/kg	2500	2470	99	70-130	
Tetrachloroethene	ug/kg	2500	2400	96	70-130	
Toluene	ug/kg	2500	2870	115	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2730	109	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2600	104	70-130	
Trichloroethene	ug/kg	2500	2620	105	70-130	
Trichlorofluoromethane	ug/kg	2500	2150	86	70-128	
Vinyl chloride	ug/kg	2500	2930	117	53-110 L1	
4-Bromofluorobenzene (S)	%			108	52-137	
Dibromofluoromethane (S)	%			103	58-145	
Toluene-d8 (S)	%			104	56-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2087712 2087713

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40211571015 Result	Spike Conc.	Spike Conc.	Result								
1,1,1-Trichloroethane	ug/kg	<25.0	1440	1440	1330	1240	93	87	66-130	7	20		
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1440	1440	1790	1750	125	122	70-133	2	20		
1,1,2-Trichloroethane	ug/kg	<25.0	1440	1440	1540	1450	107	101	70-130	6	20		
1,1-Dichloroethane	ug/kg	<25.0	1440	1440	1560	1390	109	97	69-143	11	20		
1,1-Dichloroethene	ug/kg	<25.0	1440	1440	1170	1080	82	75	58-120	8	20		
1,2,4-Trichlorobenzene	ug/kg	<41.7	1440	1440	1870	1730	130	120	60-130	8	20		
1,2-Dibromo-3-chloropropane	ug/kg	<237	1440	1440	1830	1750	127	122	59-136	4	20		
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1440	1440	1530	1450	107	101	70-130	5	20		
1,2-Dichlorobenzene	ug/kg	<25.0	1440	1440	1610	1540	112	107	70-130	4	20		
1,2-Dichloroethane	ug/kg	363	1440	1440	1880	1760	106	97	70-136	7	20		
1,2-Dichloropropane	ug/kg	<25.0	1440	1440	1600	1500	111	104	78-128	6	20		
1,3-Dichlorobenzene	ug/kg	<25.0	1440	1440	1550	1500	108	104	70-130	4	20		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL DATA

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

Parameter	Units	2087712		2087713		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40211571015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,4-Dichlorobenzene	ug/kg	<25.0	1440	1440	1640	1480	115	103	70-130	10	20		
Benzene	ug/kg	<25.0	1440	1440	1500	1400	104	97	70-130	7	20		
Bromodichloromethane	ug/kg	<25.0	1440	1440	1450	1400	101	98	70-130	3	20		
Bromoform	ug/kg	<25.0	1440	1440	1400	1370	97	96	63-130	2	20		
Bromomethane	ug/kg	<63.8	1440	1440	699	669	49	47	33-146	4	20		
Carbon tetrachloride	ug/kg	<25.0	1440	1440	1310	1210	91	84	65-130	7	20		
Chlorobenzene	ug/kg	<25.0	1440	1440	1410	1340	98	93	70-130	5	20		
Chloroethane	ug/kg	<46.4	1440	1440	672	641	47	45	46-156	5	20	M1	
Chloroform	ug/kg	<47.5	1440	1440	1480	1370	103	95	75-130	8	20		
Chloromethane	ug/kg	<25.0	1440	1440	845	800	59	56	20-139	5	20		
cis-1,2-Dichloroethene	ug/kg	143	1440	1440	1610	1490	102	94	69-130	8	20		
cis-1,3-Dichloropropene	ug/kg	<42.3	1440	1440	1520	1440	106	100	70-130	6	20		
Dibromochloromethane	ug/kg	<229	1440	1440	1480	1420	103	99	70-130	4	20		
Dichlorodifluoromethane	ug/kg	<25.0	1440	1440	294	284	21	20	10-99	3	22		
Ethylbenzene	ug/kg	<25.0	1440	1440	1450	1340	101	94	80-120	7	20		
Isopropylbenzene (Cumene)	ug/kg	<25.0	1440	1440	1320	1250	92	87	70-130	6	20		
m&p-Xylene	ug/kg	<50.0	2870	2870	2920	2670	102	93	70-130	9	20		
Methyl-tert-butyl ether	ug/kg	<25.0	1440	1440	1570	1470	110	102	70-130	7	20		
Methylene Chloride	ug/kg	<26.3	1440	1440	1440	1360	100	95	70-136	6	20		
o-Xylene	ug/kg	<25.0	1440	1440	1480	1400	103	97	70-130	6	20		
Styrene	ug/kg	<25.0	1440	1440	1380	1320	96	92	70-130	4	20		
Tetrachloroethene	ug/kg	<38.7	1440	1440	1260	1190	88	83	68-130	6	20		
Toluene	ug/kg	<25.0	1440	1440	1590	1470	111	103	80-120	7	20		
trans-1,2-Dichloroethene	ug/kg	<25.0	1440	1440	1400	1280	98	89	70-130	9	20		
trans-1,3-Dichloropropene	ug/kg	<25.0	1440	1440	1540	1420	107	99	70-130	8	20		
Trichloroethene	ug/kg	479	1440	1440	1910	1830	99	94	70-130	4	20		
Trichlorofluoromethane	ug/kg	<25.0	1440	1440	914	832	64	58	53-128	9	20		
Vinyl chloride	ug/kg	<25.0	1440	1440	1040	949	73	66	32-118	9	20		
4-Bromofluorobenzene (S)	%						110	110	52-137				
Dibromofluoromethane (S)	%						108	106	58-145				
Toluene-d8 (S)	%						112	109	56-140				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL DATA

Project: 60626859 Blackhawk Valve Stati  
Pace Project No.: 10525806

QC Batch: 361125 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 10525806002

METHOD BLANK: 2087684 Matrix: Water  
Associated Lab Samples: 10525806002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	07/24/20 06:58	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	07/24/20 06:58	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	07/24/20 06:58	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	07/24/20 06:58	
1,1-Dichloroethane	ug/L	<0.27	1.0	07/24/20 06:58	
1,1-Dichloroethene	ug/L	<0.24	1.0	07/24/20 06:58	
1,1-Dichloropropene	ug/L	<0.54	1.8	07/24/20 06:58	
1,2,3-Trichlorobenzene	ug/L	<2.2	7.4	07/24/20 06:58	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	07/24/20 06:58	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	07/24/20 06:58	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	07/24/20 06:58	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	07/24/20 06:58	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	07/24/20 06:58	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	07/24/20 06:58	
1,2-Dichloroethane	ug/L	<0.28	1.0	07/24/20 06:58	
1,2-Dichloropropane	ug/L	<0.28	1.0	07/24/20 06:58	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	07/24/20 06:58	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	07/24/20 06:58	
1,3-Dichloropropane	ug/L	<0.83	2.8	07/24/20 06:58	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	07/24/20 06:58	
2,2-Dichloropropane	ug/L	<2.3	7.6	07/24/20 06:58	
2-Chlorotoluene	ug/L	<0.93	5.0	07/24/20 06:58	
4-Chlorotoluene	ug/L	<0.76	2.5	07/24/20 06:58	
Benzene	ug/L	<0.25	1.0	07/24/20 06:58	
Bromobenzene	ug/L	<0.24	1.0	07/24/20 06:58	
Bromochloromethane	ug/L	<0.36	5.0	07/24/20 06:58	
Bromodichloromethane	ug/L	<0.36	1.2	07/24/20 06:58	
Bromoform	ug/L	<4.0	13.2	07/24/20 06:58	
Bromomethane	ug/L	<0.97	5.0	07/24/20 06:58	
Carbon tetrachloride	ug/L	<1.1	3.6	07/24/20 06:58	
Chlorobenzene	ug/L	<0.71	2.4	07/24/20 06:58	
Chloroethane	ug/L	<1.3	5.0	07/24/20 06:58	
Chloroform	ug/L	<1.3	5.0	07/24/20 06:58	
Chloromethane	ug/L	<2.2	7.3	07/24/20 06:58	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	07/24/20 06:58	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	07/24/20 06:58	
Dibromochloromethane	ug/L	<2.6	8.7	07/24/20 06:58	
Dibromomethane	ug/L	<0.94	3.1	07/24/20 06:58	
Dichlorodifluoromethane	ug/L	<0.50	5.0	07/24/20 06:58	
Diisopropyl ether	ug/L	<1.9	6.3	07/24/20 06:58	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL DATA

Project: 60626859 Blackhawk Valve Stati  
Pace Project No.: 10525806

METHOD BLANK: 2087684 Matrix: Water  
Associated Lab Samples: 10525806002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.32	1.1	07/24/20 06:58	
Hexachloro-1,3-butadiene	ug/L	<1.5	4.9	07/24/20 06:58	
Isopropylbenzene (Cumene)	ug/L	<1.7	5.6	07/24/20 06:58	
m&p-Xylene	ug/L	<0.47	2.0	07/24/20 06:58	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	07/24/20 06:58	
Methylene Chloride	ug/L	<0.58	5.0	07/24/20 06:58	
n-Butylbenzene	ug/L	<0.71	2.4	07/24/20 06:58	
n-Propylbenzene	ug/L	<0.81	5.0	07/24/20 06:58	
Naphthalene	ug/L	<1.2	5.0	07/24/20 06:58	
o-Xylene	ug/L	<0.26	1.0	07/24/20 06:58	
p-Isopropyltoluene	ug/L	<0.80	2.7	07/24/20 06:58	
sec-Butylbenzene	ug/L	<0.85	5.0	07/24/20 06:58	
Styrene	ug/L	<3.0	10.0	07/24/20 06:58	
tert-Butylbenzene	ug/L	<0.30	1.0	07/24/20 06:58	
Tetrachloroethene	ug/L	<0.33	1.1	07/24/20 06:58	
Toluene	ug/L	<0.27	0.90	07/24/20 06:58	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	07/24/20 06:58	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	07/24/20 06:58	
Trichloroethene	ug/L	<0.26	1.0	07/24/20 06:58	
Trichlorofluoromethane	ug/L	<0.21	1.0	07/24/20 06:58	
Vinyl chloride	ug/L	<0.17	1.0	07/24/20 06:58	
4-Bromofluorobenzene (S)	%	93	70-130	07/24/20 06:58	
Dibromofluoromethane (S)	%	101	70-130	07/24/20 06:58	
Toluene-d8 (S)	%	101	70-130	07/24/20 06:58	

LABORATORY CONTROL SAMPLE: 2087685

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.6	109	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.9	100	64-131	
1,1,2-Trichloroethane	ug/L	50	50.1	100	70-130	
1,1-Dichloroethane	ug/L	50	51.6	103	69-163	
1,1-Dichloroethene	ug/L	50	50.6	101	77-123	
1,2,4-Trichlorobenzene	ug/L	50	50.7	101	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.6	95	63-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.2	100	70-130	
1,2-Dichlorobenzene	ug/L	50	47.7	95	70-130	
1,2-Dichloroethane	ug/L	50	51.9	104	78-142	
1,2-Dichloropropane	ug/L	50	52.8	106	86-134	
1,3-Dichlorobenzene	ug/L	50	49.0	98	70-130	
1,4-Dichlorobenzene	ug/L	50	48.6	97	70-130	
Benzene	ug/L	50	53.2	106	70-130	
Bromodichloromethane	ug/L	50	52.4	105	70-130	
Bromoform	ug/L	50	48.9	98	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL DATA

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

LABORATORY CONTROL SAMPLE: 2087685

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	34.2	68	39-129	
Carbon tetrachloride	ug/L	50	55.9	112	70-132	
Chlorobenzene	ug/L	50	52.2	104	70-130	
Chloroethane	ug/L	50	50.1	100	66-140	
Chloroform	ug/L	50	50.3	101	75-132	
Chloromethane	ug/L	50	48.9	98	32-143	
cis-1,2-Dichloroethene	ug/L	50	50.9	102	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.4	99	70-130	
Dibromochloromethane	ug/L	50	46.4	93	70-130	
Dichlorodifluoromethane	ug/L	50	52.5	105	10-141	
Ethylbenzene	ug/L	50	53.9	108	80-120	
Isopropylbenzene (Cumene)	ug/L	50	49.0	98	70-130	
m&p-Xylene	ug/L	100	107	107	70-130	
Methyl-tert-butyl ether	ug/L	50	48.2	96	61-129	
Methylene Chloride	ug/L	50	49.5	99	70-130	
o-Xylene	ug/L	50	52.1	104	70-130	
Styrene	ug/L	50	48.3	97	70-130	
Tetrachloroethene	ug/L	50	49.5	99	70-130	
Toluene	ug/L	50	52.0	104	80-120	
trans-1,2-Dichloroethene	ug/L	50	50.2	100	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.1	94	69-130	
Trichloroethene	ug/L	50	52.1	104	70-130	
Trichlorofluoromethane	ug/L	50	54.8	110	75-145	
Vinyl chloride	ug/L	50	50.2	100	51-140	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			105	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2087756 2087757

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10525806002	Spike Conc.	Spike Conc.	Result								
1,1,1-Trichloroethane	ug/L	<2.4	200	200	212	226	106	113	70-130	6	20		
1,1,2,2-Tetrachloroethane	ug/L	<2.8	200	200	191	234	96	117	64-137	20	20		
1,1,2-Trichloroethane	ug/L	<5.5	200	200	198	225	99	112	70-137	13	20		
1,1-Dichloroethane	ug/L	<2.7	200	200	199	168	99	84	69-163	17	20		
1,1-Dichloroethene	ug/L	<2.4	200	200	188	200	94	100	77-129	6	20		
1,2,4-Trichlorobenzene	ug/L	<9.5	200	200	183	218	91	109	68-130	18	20		
1,2-Dibromo-3-chloropropane	ug/L	<17.6	200	200	177	234	88	117	60-130	28	20	R1	
1,2-Dibromoethane (EDB)	ug/L	<8.3	200	200	197	227	99	113	70-130	14	20		
1,2-Dichlorobenzene	ug/L	<7.1	200	200	190	208	95	104	70-130	9	20		
1,2-Dichloroethane	ug/L	<2.8	200	200	357	380	178	190	78-145	6	20	M1	
1,2-Dichloropropane	ug/L	<2.8	200	200	204	222	102	111	86-135	8	20		
1,3-Dichlorobenzene	ug/L	<6.3	200	200	195	211	97	105	70-130	8	20		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.



### QUALITY CONTROL DATA

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

Parameter	Units	2087756		2087757		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10525806002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,4-Dichlorobenzene	ug/L	<9.4	200	200	187	204	94	102	70-130	9	20		
Bromodichloromethane	ug/L	<3.6	200	200	199	222	100	111	70-130	11	20		
Bromoform	ug/L	<39.7	200	200	185	217	92	109	69-130	16	20		
Bromomethane	ug/L	<9.7	200	200	118	135	59	67	39-138	14	20		
Carbon tetrachloride	ug/L	<10.8	200	200	215	230	108	115	70-142	7	20		
Chlorobenzene	ug/L	<7.1	200	200	205	221	102	110	70-130	7	20		
Chloroethane	ug/L	<13.4	200	200	177	200	89	100	61-149	12	20		
Chloroform	ug/L	<12.7	200	200	195	210	98	105	75-133	7	20		
Chloromethane	ug/L	<21.9	200	200	137	146	68	73	32-143	7	20		
cis-1,2-Dichloroethene	ug/L	<2.7	200	200	197	214	99	107	70-130	8	20		
cis-1,3-Dichloropropene	ug/L	<36.3	200	200	192	209	96	104	70-130	9	20		
Dibromochloromethane	ug/L	<26.0	200	200	182	204	91	102	70-130	12	20		
Dichlorodifluoromethane	ug/L	<5.0	200	200	99.0	104	49	52	10-141	5	20		
Ethylbenzene	ug/L	86.5	200	200	315	335	114	124	80-120	6	20	M1	
Isopropylbenzene (Cumene)	ug/L	19.6J	200	200	197	210	89	95	70-130	7	20		
m&p-Xylene	ug/L	131	400	400	581	611	112	120	70-130	5	20		
Methyl-tert-butyl ether	ug/L	<12.5	200	200	197	230	98	115	61-136	15	20		
Methylene Chloride	ug/L	<5.8	200	200	194	206	97	103	68-137	6	20		
o-Xylene	ug/L	39.0	200	200	259	276	110	119	70-130	6	20		
Styrene	ug/L	<30.1	200	200	188	205	94	103	70-130	8	20		
Tetrachloroethene	ug/L	<3.3	200	200	196	215	98	108	70-130	9	20		
trans-1,2-Dichloroethene	ug/L	<4.6	200	200	192	207	96	104	70-130	8	20		
trans-1,3-Dichloropropene	ug/L	<43.7	200	200	188	209	94	105	69-130	11	20		
Trichloroethene	ug/L	<2.6	200	200	199	219	99	110	70-130	10	20		
Trichlorofluoromethane	ug/L	<2.1	200	200	191	230	96	115	74-157	19	20		
Vinyl chloride	ug/L	<1.7	200	200	159	176	79	88	51-140	10	20		
4-Bromofluorobenzene (S)	%						101	101	70-130				
Dibromofluoromethane (S)	%						103	103	70-130				
Toluene-d8 (S)	%						103	102	70-130				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.



### QUALITY CONTROL DATA

Project: 60626859 Blackhawk Valve Stati  
Pace Project No.: 10525806

QC Batch: 688687	Analysis Method: EPA 8270E by SIM
QC Batch Method: EPA 3550C	Analysis Description: 8270E Solid PAH by SIM MSSV
	Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525806001

METHOD BLANK: 3683265 Matrix: Solid

Associated Lab Samples: 10525806001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	<0.45	1.5	07/24/20 10:24	
Acenaphthylene	ug/kg	<0.68	2.3	07/24/20 10:24	
Anthracene	ug/kg	<0.32	1.1	07/24/20 10:24	
Benzo(a)anthracene	ug/kg	<0.41	1.4	07/24/20 10:24	
Benzo(a)pyrene	ug/kg	<0.56	1.9	07/24/20 10:24	
Benzo(b)fluoranthene	ug/kg	<0.47	1.6	07/24/20 10:24	
Benzo(g,h,i)perylene	ug/kg	<0.46	1.5	07/24/20 10:24	
Benzo(k)fluoranthene	ug/kg	<0.48	1.6	07/24/20 10:24	
Chrysene	ug/kg	<0.40	1.3	07/24/20 10:24	
Dibenz(a,h)anthracene	ug/kg	<0.66	2.2	07/24/20 10:24	
Fluoranthene	ug/kg	<0.60	2.0	07/24/20 10:24	
Fluorene	ug/kg	<0.60	2.0	07/24/20 10:24	
Indeno(1,2,3-cd)pyrene	ug/kg	<0.54	1.8	07/24/20 10:24	
Naphthalene	ug/kg	<0.45	1.5	07/24/20 10:24	
Phenanthrene	ug/kg	<0.70	2.3	07/24/20 10:24	
Pyrene	ug/kg	<0.65	2.2	07/24/20 10:24	
2-Fluorobiphenyl (S)	%	72	30-138	07/24/20 10:24	
p-Terphenyl-d14 (S)	%	84	30-143	07/24/20 10:24	

LABORATORY CONTROL SAMPLE: 3683266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.3	26.8	80	49-125	
Acenaphthylene	ug/kg	33.3	25.5	76	53-125	
Anthracene	ug/kg	33.3	30.2	91	59-125	
Benzo(a)anthracene	ug/kg	33.3	31.8	95	58-125	
Benzo(a)pyrene	ug/kg	33.3	30.7	92	64-125	
Benzo(b)fluoranthene	ug/kg	33.3	33.4	100	61-125	
Benzo(g,h,i)perylene	ug/kg	33.3	31.8	95	64-125	
Benzo(k)fluoranthene	ug/kg	33.3	31.0	93	62-125	
Chrysene	ug/kg	33.3	30.0	90	65-125	
Dibenz(a,h)anthracene	ug/kg	33.3	30.7	92	63-125	
Fluoranthene	ug/kg	33.3	32.6	98	68-125	
Fluorene	ug/kg	33.3	29.8	89	54-125	
Indeno(1,2,3-cd)pyrene	ug/kg	33.3	31.1	93	63-125	
Naphthalene	ug/kg	33.3	25.1	75	45-125	
Phenanthrene	ug/kg	33.3	30.9	93	63-125	
Pyrene	ug/kg	33.3	35.4	106	65-125	
2-Fluorobiphenyl (S)	%			81	30-138	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL DATA

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

LABORATORY CONTROL SAMPLE: 3683266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Terphenyl-d14 (S)	%.			91	30-143	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3683267 3683268

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10525806001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Acenaphthene	ug/kg	<0.48	36	36	31.5	29.7	87	82	30-125	6	30	
Acenaphthylene	ug/kg	<0.74	36	36	30.3	29.9	84	83	30-150	1	30	
Anthracene	ug/kg	<0.34	36	36	34.1	31.3	95	87	30-150	9	30	
Benzo(a)anthracene	ug/kg	<0.45	36	36	33.4	32.1	92	89	30-150	4	30	
Benzo(a)pyrene	ug/kg	<0.61	36	36	32.9	32.5	91	90	30-150	1	30	
Benzo(b)fluoranthene	ug/kg	<0.50	36	36	31.4	30.7	87	85	30-150	2	30	
Benzo(g,h,i)perylene	ug/kg	<0.50	36	36	33.6	33.2	93	92	30-150	1	30	
Benzo(k)fluoranthene	ug/kg	<0.52	36	36	35.5	34.4	99	96	30-150	3	30	
Chrysene	ug/kg	<0.43	36	36	31.6	31.8	88	88	30-150	1	30	
Dibenz(a,h)anthracene	ug/kg	<0.71	36	36	31.4	32.1	87	89	30-147	2	30	
Fluoranthene	ug/kg	<0.65	36	36	34.7	33.9	96	94	30-150	2	30	
Fluorene	ug/kg	<0.65	36	36	33.5	31.4	93	87	30-150	6	30	
Indeno(1,2,3-cd)pyrene	ug/kg	<0.58	36	36	32.5	31.9	90	89	30-150	2	30	
Naphthalene	ug/kg	10.1	36	36	43.5	39.1	93	81	30-141	11	30	
Phenanthrene	ug/kg	2.7	36	36	37.1	34.8	95	89	30-150	6	30	
Pyrene	ug/kg	<0.70	36	36	39.9	39.3	111	109	30-150	1	30	
2-Fluorobiphenyl (S)	%.						85	78	30-138			
p-Terphenyl-d14 (S)	%.						91	87	30-143			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL DATA

Project: 60626859 Blackhawk Valve Stati  
Pace Project No.: 10525806

QC Batch: 689287	Analysis Method: EPA 8270E by SIM
QC Batch Method: EPA Mod. 3510C	Analysis Description: 8270E Water PAH by SIM MSSV
	Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525806002

METHOD BLANK: 3686370 Matrix: Water

Associated Lab Samples: 10525806002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	<0.0081	0.027	07/28/20 18:13	
Acenaphthylene	ug/L	<0.0064	0.021	07/28/20 18:13	
Anthracene	ug/L	<0.0082	0.027	07/28/20 18:13	
Benzo(a)anthracene	ug/L	<0.012	0.039	07/28/20 18:13	
Benzo(a)pyrene	ug/L	<0.0088	0.029	07/28/20 18:13	
Benzo(b)fluoranthene	ug/L	<0.0078	0.026	07/28/20 18:13	
Benzo(g,h,i)perylene	ug/L	<0.0084	0.028	07/28/20 18:13	
Benzo(k)fluoranthene	ug/L	<0.0085	0.028	07/28/20 18:13	
Chrysene	ug/L	<0.011	0.037	07/28/20 18:13	
Dibenz(a,h)anthracene	ug/L	<0.011	0.036	07/28/20 18:13	
Fluoranthene	ug/L	<0.011	0.035	07/28/20 18:13	
Fluorene	ug/L	<0.0068	0.023	07/28/20 18:13	
Indeno(1,2,3-cd)pyrene	ug/L	<0.019	0.064	07/28/20 18:13	
Naphthalene	ug/L	<0.011	0.037	07/28/20 18:13	
Phenanthrene	ug/L	<0.010	0.034	07/28/20 18:13	
Pyrene	ug/L	<0.015	0.051	07/28/20 18:13	
2-Fluorobiphenyl (S)	%	86	50-125	07/28/20 18:13	
p-Terphenyl-d14 (S)	%	99	58-125	07/28/20 18:13	

LABORATORY CONTROL SAMPLE: 3686371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	1	0.89	89	55-125	
Acenaphthylene	ug/L	1	0.89	89	54-125	
Anthracene	ug/L	1	0.88	88	60-125	
Benzo(a)anthracene	ug/L	1	0.85	85	61-125	
Benzo(a)pyrene	ug/L	1	0.85	85	64-125	
Benzo(b)fluoranthene	ug/L	1	0.97	97	64-125	
Benzo(g,h,i)perylene	ug/L	1	0.89	89	54-125	
Benzo(k)fluoranthene	ug/L	1	0.86	86	62-125	
Chrysene	ug/L	1	0.94	94	63-125	
Dibenz(a,h)anthracene	ug/L	1	0.92	92	45-125	
Fluoranthene	ug/L	1	0.89	89	66-125	
Fluorene	ug/L	1	0.90	90	59-125	
Indeno(1,2,3-cd)pyrene	ug/L	1	0.90	90	63-125	
Naphthalene	ug/L	1	0.88	88	53-125	
Phenanthrene	ug/L	1	0.92	92	64-125	
Pyrene	ug/L	1	0.93	93	67-125	
2-Fluorobiphenyl (S)	%			90	50-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL DATA

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

LABORATORY CONTROL SAMPLE: 3686371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Terphenyl-d14 (S)	%.			94	58-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3686594 3686595

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10526372001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Acenaphthene	ug/L	ND	1	1	0.71	0.67	71	67	43-125	6	30	
Acenaphthylene	ug/L	ND	1	1	0.75	0.70	75	70	46-125	7	30	
Anthracene	ug/L	ND	1	1	0.81	0.84	81	84	52-125	4	30	
Benzo(a)anthracene	ug/L	ND	1	1	0.81	0.82	81	82	51-125	2	30	
Benzo(a)pyrene	ug/L	ND	1	1	0.78	0.81	78	81	54-125	4	30	
Benzo(b)fluoranthene	ug/L	ND	1	1	0.86	0.90	86	90	51-125	5	30	
Benzo(g,h,i)perylene	ug/L	ND	1	1	0.76	0.80	76	80	43-125	5	30	
Benzo(k)fluoranthene	ug/L	ND	1	1	0.76	0.79	76	79	55-125	4	30	
Chrysene	ug/L	ND	1	1	0.80	0.85	80	85	61-125	5	30	
Dibenz(a,h)anthracene	ug/L	ND	1	1	0.81	0.84	81	84	40-125	3	30	
Fluoranthene	ug/L	ND	1	1	0.81	0.86	81	86	61-125	5	30	
Fluorene	ug/L	ND	1	1	0.75	0.75	75	75	50-125	0	30	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1	1	0.78	0.81	78	81	43-125	3	30	
Naphthalene	ug/L	ND	1	1	0.65	0.57	65	57	30-125	14	30	
Phenanthrene	ug/L	ND	1	1	0.80	0.83	80	83	61-125	4	30	
Pyrene	ug/L	ND	1	1	0.83	0.87	83	87	62-125	5	30	
2-Fluorobiphenyl (S)	%.						68	61	50-125			
p-Terphenyl-d14 (S)	%.						75	79	58-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL DATA

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

QC Batch: 688680	Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO	Analysis Description: WIDRO GCS
	Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525806001

METHOD BLANK: 3683248 Matrix: Solid

Associated Lab Samples: 10525806001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
WDRO C10-C28	mg/kg	<2.7	8.9	07/24/20 11:20	
n-Triacontane (S)	%.	78	50-150	07/24/20 11:20	

LABORATORY CONTROL SAMPLE & LCSD: 3683249 3683250

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
WDRO C10-C28	mg/kg	80	64.4	66.8	81	83	70-120	4	20	
n-Triacontane (S)	%.				79	79	50-150			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL DATA

Project: 60626859 Blackhawk Valve Stati  
Pace Project No.: 10525806

QC Batch: 688398	Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO	Analysis Description: WIDRO Low Volume GCS
	Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525806002

METHOD BLANK: 3682025 Matrix: Water

Associated Lab Samples: 10525806002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
WDRO C10-C28	mg/L	<0.034	0.11	07/23/20 07:25	
n-Triacontane (S)	%.	76	50-150	07/23/20 07:25	

LABORATORY CONTROL SAMPLE & LCSD: 3682026

3682027

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
WDRO C10-C28	mg/L	0.8	0.91	0.74	113	93	75-115	20	20	
n-Triacontane (S)	%.				100	85	50-150			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## QUALIFIERS

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

---

### 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

G- Early peaks present outside the GRO window.

GO Early and late peaks present outside the GRO window.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

R1 RPD value was outside control limits.

T7 Low boiling point hydrocarbons are present in the sample.

W Non-detect results are reported on a wet weight basis.

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60626859 Blackhawk Valve Stati

Pace Project No.: 10525806

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10525806001	B1-22	WI MOD DRO	688680	WI MOD DRO	688952
10525806002	TW-01	WI MOD DRO	688398	WI MOD DRO	688675
10525806001	B1-22	TPH GRO/PVOC WI ext.	361227	WI MOD GRO	361305
10525806003	TB072120	TPH GRO/PVOC WI ext.	361227	WI MOD GRO	361305
10525806002	TW-01	WI MOD GRO	361393		
10525806001	B1-22	ASTM D2974	689206		
10525806001	B1-22	EPA 3550C	688687	EPA 8270E by SIM	688984
10525806002	TW-01	EPA Mod. 3510C	689287	EPA 8270E by SIM	689498
10525806001	B1-22	EPA 5035/5030B	361127	EPA 8260	361135
10525806003	TB072120	EPA 5035/5030B	361127	EPA 8260	361135
10525806002	TW-01	EPA 8260	361125		

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.



WO#: 10525806

**CHAIN-OF-CUSTODY / Analytical Request Dr**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be complete



**Section A**  
 Required Client Information:  
 Company: AECOM  
 Address: 230 W. Superior St Ste 111  
 Duluth, MN 55802  
 Email To: joep@pace606.com  
 Phone: 763-248-9982 Fax: N/A  
 Requested Due Date/TAT: Add 5-Day

**Section B**  
 Required Project Information:  
 Report To: Joe Pearson  
 Copy To: \_\_\_\_\_  
 Purchase Order No.: \_\_\_\_\_  
 Project Name: Backhawk Valve Station  
 Project Number: 60626859  
 TAT/Call Joe

**Section C**  
 Invoice Information:  
 Attention: Joe Pearson  
 Company Name: AECOM  
 Address: 230 W. Superior St Ste 111  
 Pace Quote Reference: \_\_\_\_\_  
 Pace Project Manager: \_\_\_\_\_  
 Pace Profile #: \_\_\_\_\_

**Section D**  
 Required Client Information:  
 Valid Matrix Codes:  
 MATRIX CODE: DW, WT, WW, WP, P, SL, OL, WP, AR, OT, TS  
 DRINKING WATER, WASTE WATER, PRODUCT, SOIL/SOLID, OIL, WIFE, OTHER, TISSUE  
 SAMPLE ID: (A-Z, 0-9 / -)  
 Sample IDs MUST BE UNIQUE

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER

Site Location: \_\_\_\_\_ STATE: \_\_\_\_\_

ITEM #	MATRIX CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES		UNPRESERVED	ANALYSIS TEST	REQUESTED ANALYSIS FILTERED (Y/N)	Pace Project No./ Lab I.D.
		COMPOSITE START	COMPOSITE END/GRAB				H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>				
1	B1-22	7/24/20 11:00		G	8					X		001
2	FW-01	7/24/20 12:30		G	10			X		X		(20-22)
3	TB070120			WT	2			X		X		002
4				WT				X		X		003

**ADDITIONAL COMMENTS**

RELINQUISHED BY / AFFILIATION: Robert Wenzel / AECOM DATE: 7/24/20 TIME: 16:30

ACCEPTED BY / AFFILIATION: TN / Pace DATE: 7/22/20 TIME: 8:40

SAMPLE CONDITIONS: Received on Ice (Y/N): Y Cooled Sealed (Y/N): N Samples Intact (Y/N): Y

Temp in °C: \_\_\_\_\_

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: \_\_\_\_\_ DATE Signed (MM/DD/YY): \_\_\_\_\_

SIGNATURE of SAMPLER: \_\_\_\_\_

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



Document Name:  
**Sample Condition Upon Receipt (SCUR) - MN**  
 Document No.:  
**ENV-FRM-MIN4-0150 Rev.00**

Document Revised: 27Mar2020  
**Page 1 of 1**  
 Pace Analytical Services -  
 Minneapolis

**Sample Condition Upon Receipt**

Client Name:  
AECOM

Project #:  
**WO# : 10525806**

PM: TS1 Due Date: 07/29/20  
 CLIENT: AECOM

Courier:  Fed Ex  UPS  USPS  Client  
 Pace  SpeedDee  Commercial  See Exceptions

Tracking Number: 3950 2561 7839

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No Biological Tissue Frozen?  Yes  No  N/A

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_ Temp Blank?  Yes  No

Thermometer:  T1(0461)  T2(1336)  T3(0459)  T4(0254)  T5(0489)  
 Type of Ice:  Wet  Blue  None  Dry  Melted

Did Samples Originate in West Virginia?  Yes  No Were All Container Temps Taken?  Yes  No  N/A

Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: 0.4 °C Average Corrected Temp (no temp blank only):  See Exceptions  1 Container

Correction Factor: true Cooler Temp Corrected w/temp blank: 0.4 °C

USDA Regulated Soil:  N/A, water sample/Other: \_\_\_\_\_ Date/Initials of Person Examining Contents: TN 7/22/20  
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No  
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No  
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present and Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and/or Signature on COC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other _____
Rush Turn Around Time Requested? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Field Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is sufficient information available to reconcile the samples to the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. If no, write ID/ Date/Time on Container Below: <input type="checkbox"/> See Exception
Matrix: <input checked="" type="checkbox"/> Water <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other _____	
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12. Sample # <input type="checkbox"/> NaOH <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Positive for Res. <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Exception
Exceptions: <u>VOA</u> , Coliform, TOC/DOC Oil and Grease, <u>DRO/8015</u> (water) and Dioxin/PFAS <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Chlorine? <input type="checkbox"/> No <input type="checkbox"/> See Exception pH Paper Lot# _____
Extra labels present on soil VOA or WIDRO containers? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Headspace in VOA Vials (greater than 6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> See Exception
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
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>covered</u>

**CLIENT NOTIFICATION/RESOLUTION**

Person Contacted: Joe Pearson  
 Comments/Resolution: Client verified that samples were collected in WI.

Field Data Required?  Yes  No

Date/Time: 7/22/20

Project Manager Review: [Signature]

Date: 7/22/20

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: [Signature]

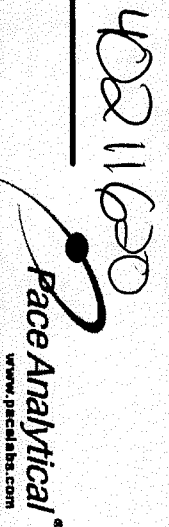
# Internal Transfer Chain of Custody

Samples Pre-Logged into eCOC.

Workorder: 10525806      Workorder Name: 60626859 Blackhawk Valve Stati

State Of Origin: WI  
 Cert. Needed:  Yes     No  
 Owner Received Date: 7/22/2020

Results Requested By: 7/29/2020




Tina Soltani  
 Pace Analytical Minnesota  
 1700 Elm Street  
 Suite 200  
 Minneapolis, MN 55414  
 Phone (612) 607-6384

Pace Analytical Green Bay  
 1241 Bellevue Street  
 Suite 9  
 Green Bay, WI 54302  
 Phone (920) 469-2436

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers		GRO by WIGRO - TB	GRO by WIGRO	VOC by 8260B - TB	VOC by 8260B	Requested Analysis	Comments
						HCl - VG9H	MeOH - VG9M						
1	B1-22	PS	7/21/2020 11:00	10525806001	Solid		4		X		X		LAB USE ONLY 001
2	TW-01	PS	7/21/2020 12:30	10525806002	Water		6		X		X		002
3	TB072120	PS	7/21/2020 00:00	10525806003	Solid		2		X		X		003
4													
5													

Transfers	Released By	Date/Time	Received By	Date/Time	Received on Ice	Minneapolis will analyze dry weight.
1	<i>[Signature]</i>	7/22/20	<i>[Signature]</i>	7/23/20	<input checked="" type="checkbox"/>	
2	<i>[Signature]</i>	7/22/20	<i>[Signature]</i>	7/23/20	<input checked="" type="checkbox"/>	
3	<i>[Signature]</i>	7/22/20	<i>[Signature]</i>	7/23/20	<input checked="" type="checkbox"/>	

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.  
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

**Sample Condition Upon Receipt Form (SCUR)**

Client Name: Pace MN  
 Courier:  CS Logistics  Fed Ex  Speedee  UPS  Walco  
 Client  Pace Other: \_\_\_\_\_

Project #: **WO# : 40211620**



Tracking #: 25115532

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 - 86 Type of Ice:  Wet  Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 0 / Corr: 1

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

Person examining contents:  
 Date: 7/23/20 / Initials: NP  
 Labeled By Initials: EMW

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 type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4. <u>JKWO</u> <u>7/23/20 NP</u>
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- 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 checked="" 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. <u>Tare weight covered on all V69MS jars</u>
-Pace Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<u>7/23/20</u>
-Pace IR Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W/S</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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: \_\_\_\_\_  
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_ If checked, see attached form for additional comments   
 Comments/ Resolution: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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

Date : 24-JUL-2020 12:59

Client ID: B1-22

Sample Info: 10525806001

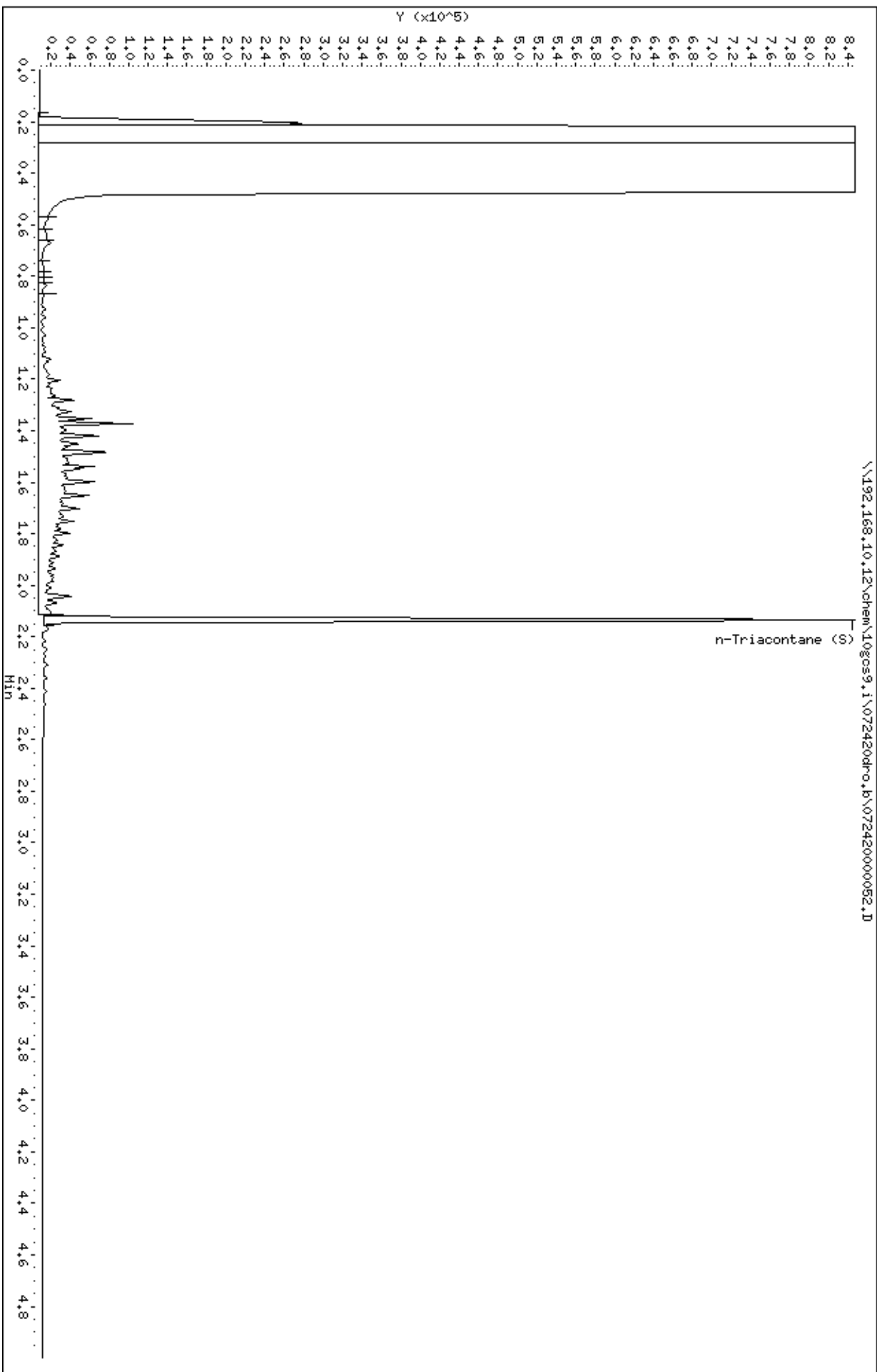
Volume Injected (uL): 1.0

Column phase: DB-5-MS20180032

Instrument: 10gos9.i

Operator: JVH

Column diameter: 0.32



Date : 23-JUL-2020 09:11

Client ID: TM-01

Sample Info: 10525806002

Volume Injected (uL): 1.0

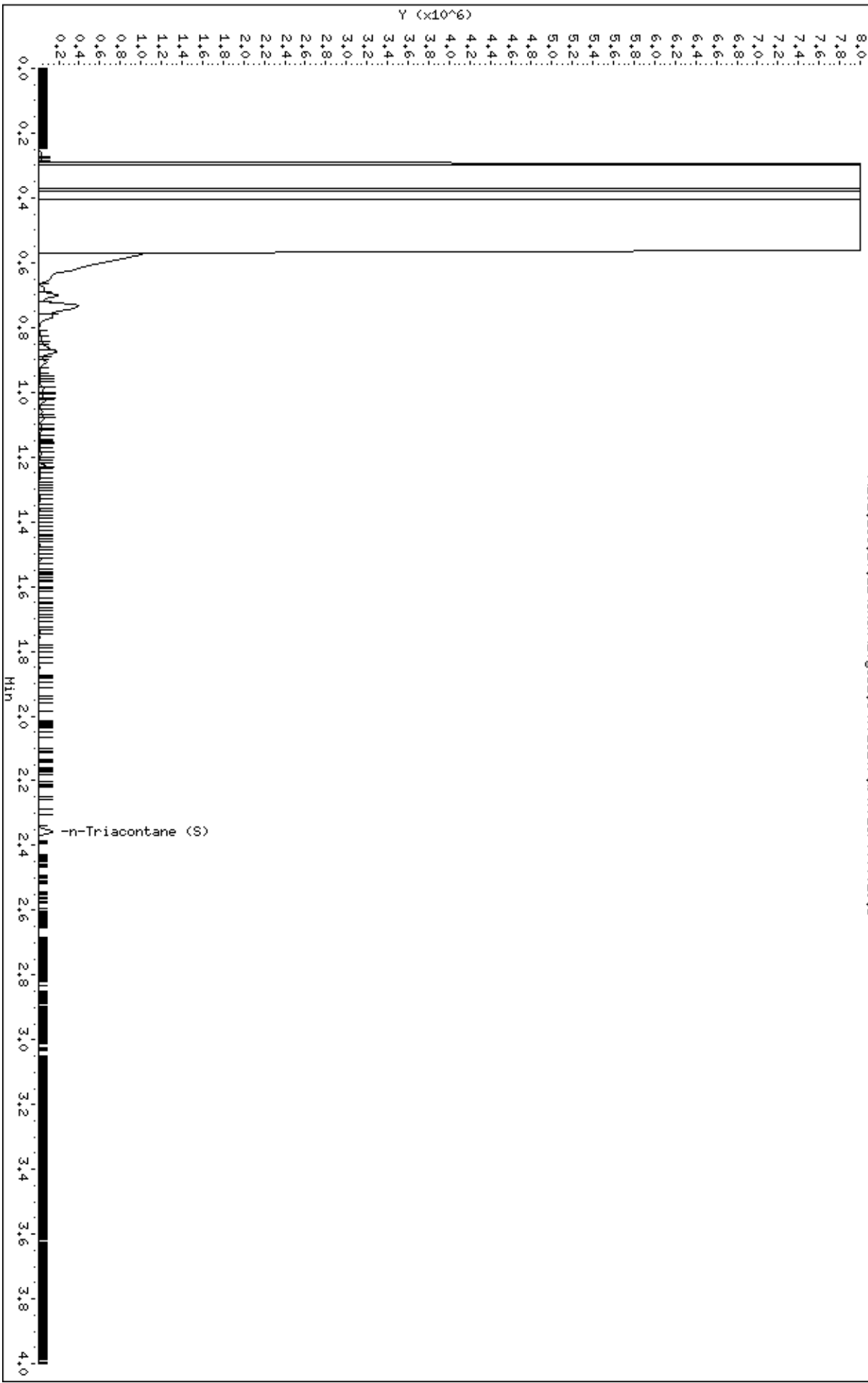
Column phase: DB-5-MS20120014

Instrument: 10gosl.i

Operator: TT2

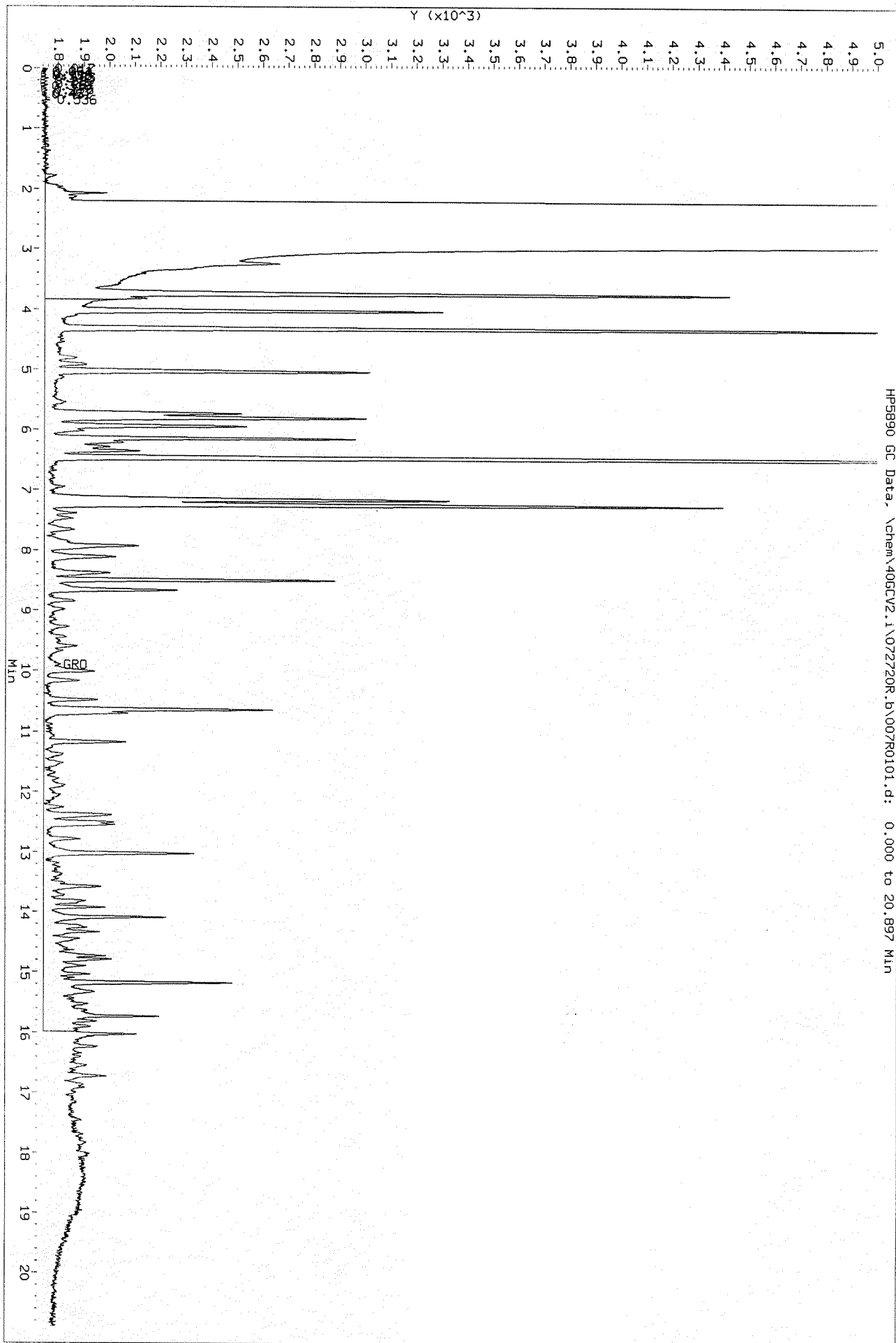
Column diameter: 0.32

\\192.168.10.12\chem\10gosl.i\072320F.b\0723F0000019.D

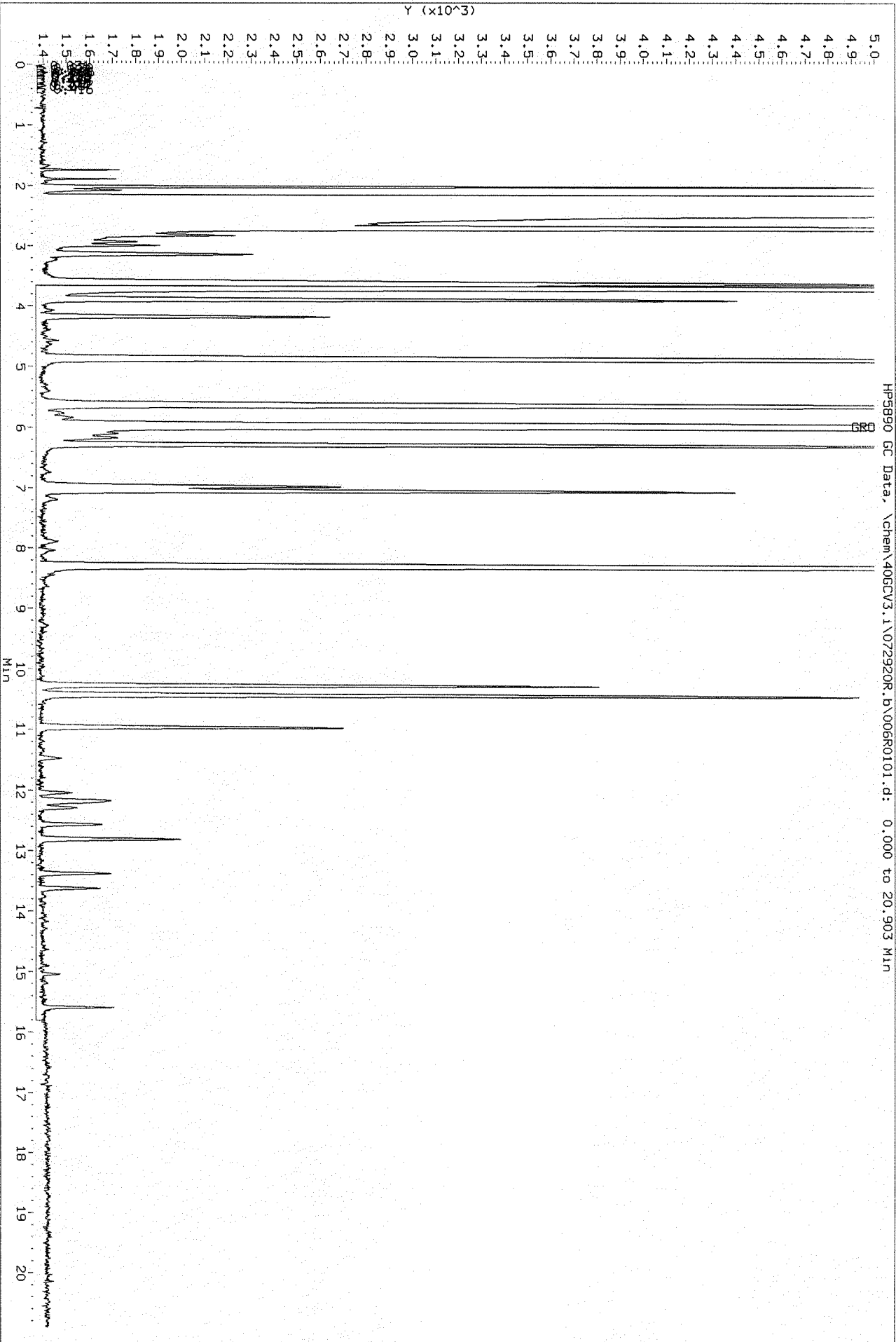


Data File: \\40wintarget\data2\chem\406CV2.1\072720R.b\007R0101.d  
Injection Date: 27-JUL-2020 11:02  
Instrument: 406CV2.1  
Client Sample ID: 10525806001

46211620

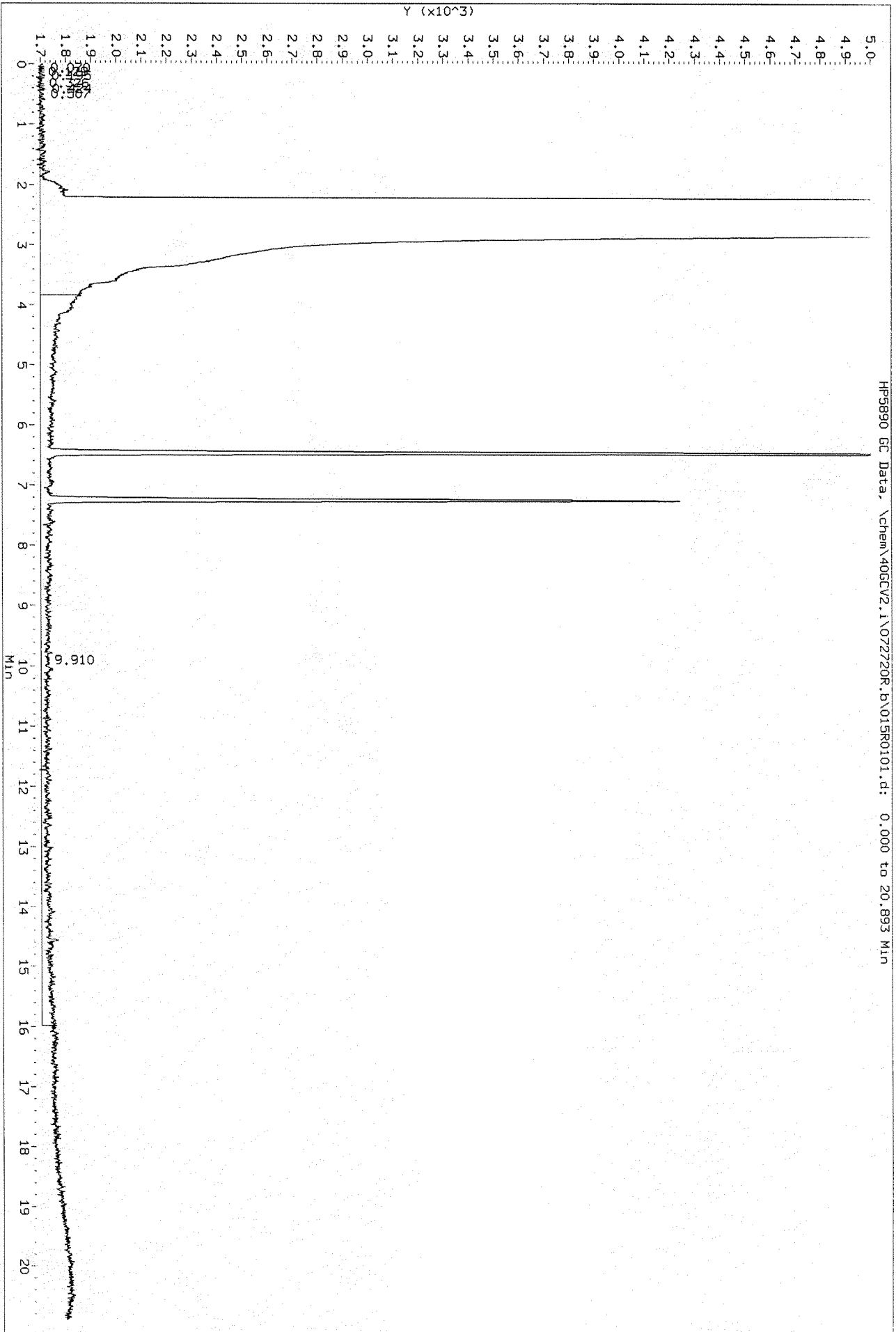


Data File: \\40wintarget\data2\chem\406CV3.1\072920R.b\006R0101.d  
Injection Date: 29-JUL-2020 09:34  
Instrument: 406CV3.1  
Client Sample ID: 10525806002





Data File: \\40wintarget\data2\chem\406CV2.1\072720R.b\015R0101.d  
Injection Date: 27-JUL-2020 14:26  
Instrument: 406CV2.1  
Client Sample ID: 10525906003



HP5890 GC Data, \chem\406CV2.1\072720R.b\015R0101.d: 0.000 to 20.893 Min