Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

June 22, 2022

Stacy Ness
EEG, Inc.
220 North Knoxville
Russellville, AR 72801

RE: Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

Dear Stacy Ness:

Enclosed are the analytical results for sample(s) received by the laboratory on May 25, 2022. 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 National - Mt. Juliet
- Pace Analytical Services - Kansas City

Hold Time Exceedance Hexavlent Chromium: Per client proceed out of hold.

REV-1, 6/22/22: Missing Dioxin report attached.

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

Sincerely,

Jamie Church
jamie.church@pacelabs.com
314-838-7223
Project Manager

Enclosures

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

Pace Analytical Services Kansas
9608 Loiret Boulevard, Lenexa, KS 66219
Missouri Inorganic Drinking Water Certification #: 10090
Arkansas Drinking Water
Arkansas Certification #: 20-020-0
Arkansas Drinking Water
Illinois Certification #: 2000302021-3
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212020-2
Oklahoma Certification #: 9205/9935
Florida: Cert E871149 SEKS WET
Texas Certification #: T104704407-21-15
Utah Certification #: KS000212019-9
Illinois Certification #: 004592
Kansas Field Laboratory Accreditation: # E-92587
Missouri SEKS Micro Certification: 10070

Pace Analytical Services National
12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

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SAMPLE SUMMARY

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60401199001	**OUTFALL 002**	Water	05/24/22 06:15	05/25/22 09:15
60401199002	**OUTFALL 002**	Water	05/23/22 06:22	05/25/22 09:15
60401199003	**OUTFALL 002**	Water	05/24/22 06:15	05/25/22 09:15
60401199004	**OUTFALL 002**	Water	05/24/22 06:15	05/25/22 09:15
60401199005	**OUTFALL 002**	Water	05/24/22 06:15	05/25/22 09:15
60401199006	**OUTFALL 002**	Water	05/23/22 06:22	05/25/22 09:15
60401199007	**OUTFALL 002**	Water	05/23/22 06:22	05/25/22 09:15
60401199008	**OUTFALL 002**	Water	05/23/22 06:22	05/25/22 09:15
60401199009	**OUTFALL 002**	Water	05/23/22 06:22	05/25/22 09:15
60401199010	**OUTFALL 002**	Water	05/24/22 06:15	05/25/22 09:15

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SAMPLE ANALYTE COUNT

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60401199001	**OUTFALL 002**	EPA 200.7	MRV	12	PASI-K
		EPA 245.1	ALH	1	PASI-K
60401199002	**OUTFALL 002**	SM 2540C	MLD	1	PASI-K
		SM 3500-Cr B	BLA	1	PASI-K
60401199003	**OUTFALL 002**	EPA 608.3	HLA	23	PAN
		EPA 608.3	HLA	10	PAN
60401199005	**OUTFALL 002**	EPA 625.1	JMT	55	PASI-K
60401199006	**OUTFALL 002**	EPA 624.1	JLO	30	PASI-K
60401199007	**OUTFALL 002**	EPA 420.1	BLA	1	PASI-K
60401199008	**OUTFALL 002**	SM 4500-CN-E	KWM	1	PASI-K
60401199009	**OUTFALL 002**	EPA 1664A	MAW	1	PASI-K
60401199010	**OUTFALL 002**	EPA 351.2	SB2	1	PASI-K
		EPA 353.2	KB	1	PASI-K
		EPA 365.4	MLD	1	PASI-K

PAN = Pace National - Mt. Juliet
PASI-K = Pace Analytical Services - Kansas City

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ANALYTICAL RESULTS

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

Sample: OUTFALL 002 **Lab ID: 60401199001** Collected: 05/24/22 06:15 Received: 05/25/22 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Arsenic	ND	ug/L	10.0	1	05/26/22 17:30	05/27/22 15:18	7440-38-2	
Beryllium	ND	ug/L	1.0	1	05/26/22 17:30	05/27/22 15:18	7440-41-7	
Cadmium	ND	ug/L	5.0	1	05/26/22 17:30	05/27/22 15:18	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/26/22 17:30	05/27/22 15:18	7440-47-3	
Copper	ND	ug/L	10.0	1	05/26/22 17:30	05/27/22 15:18	7440-50-8	
Lead	ND	ug/L	10.0	1	05/26/22 17:30	05/27/22 15:18	7439-92-1	
Molybdenum	ND	ug/L	20.0	1	05/26/22 17:30	05/27/22 15:18	7439-98-7	
Nickel	ND	ug/L	5.0	1	05/26/22 17:30	05/27/22 15:18	7440-02-0	
Selenium	ND	ug/L	15.0	1	05/26/22 17:30	05/27/22 15:18	7782-49-2	
Silver	ND	ug/L	7.0	1	05/26/22 17:30	05/27/22 15:18	7440-22-4	
Thallium	ND	ug/L	20.0	1	05/26/22 17:30	05/27/22 15:18	7440-28-0	
Zinc	ND	ug/L	50.0	1	05/26/22 17:30	05/27/22 15:18	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City							
Mercury	ND	ug/L	0.20	1	06/06/22 08:53	06/06/22 14:05	7439-97-6	

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ANALYTICAL RESULTS

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

Sample: OUTFALL 002 **Lab ID: 60401199002** Collected: 05/23/22 06:22 Received: 05/25/22 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	**120**	mg/L	5.0	1		05/27/22 13:12		
Chromium, Hexavalent	Analytical Method: SM 3500-Cr B Pace Analytical Services - Kansas City							
Chromium, Hexavalent	ND	mg/L	0.010	1		05/26/22 14:15	18540-29-9	H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

Sample: OUTFALL 002 **Lab ID: 60401199003** Collected: 05/24/22 06:15 Received: 05/25/22 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) EPA 608.3	Analytical Method: EPA 608.3 Preparation Method: 3510C Pace National - Mt. Juliet							
Aldrin	ND	ug/L	0.0500	1	05/30/22 07:16	05/30/22 20:48	309-00-2	
alpha-BHC	ND	ug/L	0.0500	1	05/30/22 07:16	05/30/22 20:48	319-84-6	
beta-BHC	ND	ug/L	0.0500	1	05/30/22 07:16	05/30/22 20:48	319-85-7	
delta-BHC	ND	ug/L	0.0500	1	05/30/22 07:16	05/30/22 20:48	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	1	05/30/22 07:16	05/30/22 20:48	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	1	05/30/22 07:16	05/30/22 20:48	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	1	05/30/22 07:16	05/30/22 20:48	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	1	05/30/22 07:16	05/30/22 20:48	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	1	05/30/22 07:16	05/30/22 20:48	50-29-3	
Dieldrin	ND	ug/L	0.0500	1	05/30/22 07:16	05/30/22 20:48	60-57-1	
Endosulfan I	**0.117**	ug/L	0.0500	1	05/30/22 07:16	05/30/22 20:48	959-98-8	R1
Endosulfan II	ND	ug/L	0.0500	1	05/30/22 07:16	05/30/22 20:48	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	1	05/30/22 07:16	05/30/22 20:48	1031-07-8	
Endrin	ND	ug/L	0.0500	1	05/30/22 07:16	05/30/22 20:48	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	1	05/30/22 07:16	05/30/22 20:48	7421-93-4	ML,R1
Endrin ketone	ND	ug/L	0.0500	1	05/30/22 07:16	05/30/22 20:48	53494-70-5	R1
Heptachlor	ND	ug/L	0.0500	1	05/30/22 07:16	05/30/22 20:48	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	1	05/30/22 07:16	05/30/22 20:48	1024-57-3	R1
Hexachlorobenzene	ND	ug/L	0.0500	1	05/30/22 07:16	05/30/22 20:48	118-74-1	
Methoxychlor	ND	ug/L	0.0500	1	05/30/22 07:16	05/30/22 20:48	72-43-5	R1
Toxaphene	ND	ug/L	0.500	1	05/30/22 07:16	05/30/22 20:48	8001-35-2	
Surrogates								
Decachlorobiphenyl (S)	77.7	%	10.0-144	1	05/30/22 07:16	05/30/22 20:48	2051-24-3	
Tetrachloro-m-xylene (S)	75.1	%	10.0-135	1	05/30/22 07:16	05/30/22 20:48	877-09-8	
PCBs(GC) EPA-608.3	Analytical Method: EPA 608.3 Preparation Method: 3510C Pace National - Mt. Juliet							
PCB-1016 (Aroclor 1016)	ND	ug/L	0.500	1	05/30/22 07:16	05/30/22 20:48	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.500	1	05/30/22 07:16	05/30/22 20:48	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.500	1	05/30/22 07:16	05/30/22 20:48	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.500	1	05/30/22 07:16	05/30/22 20:48	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.500	1	05/30/22 07:16	05/30/22 20:48	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.500	1	05/30/22 07:16	05/30/22 20:48	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.500	1	05/30/22 07:16	05/30/22 20:48	11096-82-5	
PCB, Total	ND	ug/L	0.500	1	05/30/22 07:16	05/30/22 20:48	1336-36-3	
Surrogates								
Decachlorobiphenyl (S)	59.4	%	10.0-144	1	05/30/22 07:16	05/30/22 20:48	2051-24-3	
Tetrachloro-m-xylene (S)	72.4	%	10.0-135	1	05/30/22 07:16	05/30/22 20:48	877-09-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

Sample: OUTFALL 002 **Lab ID: 60401199005** Collected: 05/24/22 06:15 Received: 05/25/22 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625.1 GCMS Semivolatile Organi	Analytical Method: EPA 625.1 Preparation Method: EPA 625.1 Pace Analytical Services - Kansas City							
Acenaphthene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	83-32-9	
Acenaphthylene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	208-96-8	
Anthracene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	120-12-7	
Benzidine	ND	ug/L	50.0	1	05/31/22 13:01	06/03/22 20:10	92-87-5	
Benzo(a)anthracene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	56-55-3	
Benzo(a)pyrene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	207-08-9	
4-Bromophenylphenyl ether	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	101-55-3	
Butylbenzylphthalate	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	85-68-7	
bis(2-Chloroethoxy)methane	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	6.0	1	05/31/22 13:01	06/03/22 20:10	108-60-1	
2-Chloronaphthalene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	7005-72-3	
Chrysene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	53-70-3	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1	05/31/22 13:01	06/03/22 20:10	91-94-1	
Diethylphthalate	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	84-66-2	
Dimethylphthalate	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	131-11-3	
Di-n-butylphthalate	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	25.0	1	05/31/22 13:01	06/03/22 20:10	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	1	05/31/22 13:01	06/03/22 20:10	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	606-20-2	
Di-n-octylphthalate	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	117-81-7	
Fluoranthene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	206-44-0	
Fluorene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	87-68-3	
Hexachlorobenzene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	77-47-4	L1
Hexachloroethane	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	193-39-5	
Isophorone	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	78-59-1	
Naphthalene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	91-20-3	
Nitrobenzene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	98-95-3	
2-Nitrophenol	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	88-75-5	
4-Nitrophenol	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	86-30-6	
Pentachlorophenol	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	87-86-5	
Phenanthrene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	85-01-8	
Phenol	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	108-95-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

Sample: OUTFALL 002 **Lab ID: 60401199005** Collected: 05/24/22 06:15 Received: 05/25/22 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625.1 GCMS Semivolatile Organi	Analytical Method: EPA 625.1 Preparation Method: EPA 625.1 Pace Analytical Services - Kansas City							
Pyrene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	5.0	1	05/31/22 13:01	06/03/22 20:10	88-06-2	
Surrogates								
2,4,6-Tribromophenol (S)	77	%	24-126	1	05/31/22 13:01	06/03/22 20:10	118-79-6	
2-Fluorobiphenyl (S)	66	%	24-110	1	05/31/22 13:01	06/03/22 20:10	321-60-8	
2-Fluorophenol (S)	39	%	20-59	1	05/31/22 13:01	06/03/22 20:10	367-12-4	
Nitrobenzene-d5 (S)	67	%	24-110	1	05/31/22 13:01	06/03/22 20:10	4165-60-0	
Phenol-d6 (S)	26	%	11-42	1	05/31/22 13:01	06/03/22 20:10	13127-88-3	
Terphenyl-d14 (S)	71	%	35-118	1	05/31/22 13:01	06/03/22 20:10	1718-51-0	

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ANALYTICAL RESULTS

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

Sample: OUTFALL 002 **Lab ID: 60401199006** Collected: 05/23/22 06:22 Received: 05/25/22 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics	Analytical Method: EPA 624.1 Pace Analytical Services - Kansas City							
Acrolein	ND	ug/L	50.0	1		06/02/22 00:02	107-02-8	
Acrylonitrile	ND	ug/L	20.0	1		06/02/22 00:02	107-13-1	
Benzene	ND	ug/L	1.0	1		06/02/22 00:02	71-43-2	
Bromoform	ND	ug/L	1.0	1		06/02/22 00:02	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/02/22 00:02	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		06/02/22 00:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/02/22 00:02	108-90-7	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		06/02/22 00:02	110-75-8	c3
Chloroform	ND	ug/L	1.0	1		06/02/22 00:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/02/22 00:02	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		06/02/22 00:02	124-48-1	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/02/22 00:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/02/22 00:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/02/22 00:02	75-35-4	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/02/22 00:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/02/22 00:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/02/22 00:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/02/22 00:02	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		06/02/22 00:02	100-41-4	
Methylene Chloride	ND	ug/L	1.0	1		06/02/22 00:02	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/02/22 00:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/02/22 00:02	127-18-4	
Toluene	ND	ug/L	1.0	1		06/02/22 00:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/02/22 00:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/02/22 00:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/02/22 00:02	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		06/02/22 00:02	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	97	%	80-120	1		06/02/22 00:02	460-00-4	
Toluene-d8 (S)	98	%	80-120	1		06/02/22 00:02	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1		06/02/22 00:02	2199-69-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

Sample: OUTFALL 002 **Lab ID: 60401199007** Collected: 05/23/22 06:22 Received: 05/25/22 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Kansas City							
Phenolics, Total Recoverable	**1.2**	mg/L	0.13	2.69	06/01/22 05:08	06/01/22 10:03	64743-03-9	

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

ANALYTICAL RESULTS

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

Sample: OUTFALL 002 **Lab ID: 60401199008** Collected: 05/23/22 06:22 Received: 05/25/22 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E Preparation Method: SM 4500-CN-E Pace Analytical Services - Kansas City							
Cyanide	ND	mg/L	0.0050	1	05/28/22 07:47	05/28/22 10:39	57-12-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

Sample: OUTFALL 002 **Lab ID: 60401199009** Collected: 05/23/22 06:22 Received: 05/25/22 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
HEM, Oil and Grease	Analytical Method: EPA 1664A Pace Analytical Services - Kansas City							
Oil and Grease	**7.6**	mg/L	4.9	1		06/06/22 14:11		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

Sample: OUTFALL 002 **Lab ID: 60401199010** Collected: 05/24/22 06:15 Received: 05/25/22 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Kansas City							
Nitrogen, Kjeldahl, Total	**4.4**	mg/L	0.50	1	06/01/22 11:45	06/02/22 11:33	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Kansas City							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		06/01/22 10:35		
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - Kansas City							
Phosphorus	**1.7**	mg/L	0.10	1	06/01/22 16:00	06/03/22 09:25	7723-14-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

QC Batch: 1871173
QC Batch Method: 3510C
Analysis Method: EPA 608.3
Analysis Description: Pesticides (GC) EPA 608.3
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 60401199003

METHOD BLANK: R3797685-1 Matrix: Water
Associated Lab Samples: 60401199003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aldrin	ug/L	ND	0.0500	05/30/22 18:17	
PCB-1016 (Aroclor 1016)	ug/L	ND	0.500	05/30/22 18:17	
alpha-BHC	ug/L	ND	0.0500	05/30/22 18:17	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.500	05/30/22 18:17	
beta-BHC	ug/L	ND	0.0500	05/30/22 18:17	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.500	05/30/22 18:17	
delta-BHC	ug/L	ND	0.0500	05/30/22 18:17	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.500	05/30/22 18:17	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.500	05/30/22 18:17	
gamma-BHC (Lindane)	ug/L	ND	0.0500	05/30/22 18:17	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.500	05/30/22 18:17	
Chlordane (Technical)	ug/L	ND	5.00	05/30/22 18:17	
4,4'-DDD	ug/L	ND	0.0500	05/30/22 18:17	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.500	05/30/22 18:17	
PCB, Total	ug/L	ND	0.500	05/30/22 18:17	
4,4'-DDE	ug/L	ND	0.0500	05/30/22 18:17	
4,4'-DDT	ug/L	ND	0.0500	05/30/22 18:17	
Dieldrin	ug/L	ND	0.0500	05/30/22 18:17	
Endosulfan I	ug/L	ND	0.0500	05/30/22 18:17	
Endosulfan II	ug/L	ND	0.0500	05/30/22 18:17	
Endosulfan sulfate	ug/L	ND	0.0500	05/30/22 18:17	
Endrin	ug/L	ND	0.0500	05/30/22 18:17	
Endrin aldehyde	ug/L	ND	0.0500	05/30/22 18:17	
Endrin ketone	ug/L	ND	0.0500	05/30/22 18:17	
Heptachlor	ug/L	ND	0.0500	05/30/22 18:17	
Heptachlor epoxide	ug/L	ND	0.0500	05/30/22 18:17	
Hexachlorobenzene	ug/L	ND	0.0500	05/30/22 18:17	
Methoxychlor	ug/L	ND	0.0500	05/30/22 18:17	
Toxaphene	ug/L	ND	0.500	05/30/22 18:17	
Decachlorobiphenyl (S)	%	55.3	10.0-144	05/30/22 18:17	
Tetrachloro-m-xylene (S)	%	107	10.0-135	05/30/22 18:17	
Decachlorobiphenyl (S)	%	63.1	10.0-144	05/30/22 18:17	
Tetrachloro-m-xylene (S)	%	112	10.0-135	05/30/22 18:17	

LABORATORY CONTROL SAMPLE: R3797685-5

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aldrin	ug/L	1.00	0.933	93.3	42.0-140	
alpha-BHC	ug/L	1.00	0.962	96.2	37.0-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

LABORATORY CONTROL SAMPLE: R3797685-5

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
beta-BHC	ug/L	1.00	1.05	105	17.0-147	
delta-BHC	ug/L	1.00	1.03	103	19.0-140	
gamma-BHC (Lindane)	ug/L	1.00	0.969	96.9	32.0-140	
4,4'-DDD	ug/L	1.00	0.938	93.8	31.0-141	
4,4'-DDE	ug/L	1.00	0.961	96.1	30.0-145	
4,4'-DDT	ug/L	1.00	0.932	93.2	25.0-160	
Dieldrin	ug/L	1.00	0.982	98.2	36.0-146	
Endosulfan I	ug/L	1.00	0.978	97.8	45.0-153	
Endosulfan II	ug/L	1.00	0.925	92.5	1.00-202	
Endosulfan sulfate	ug/L	1.00	0.935	93.5	26.0-144	
Endrin	ug/L	1.00	0.987	98.7	30.0-147	
Endrin aldehyde	ug/L	1.00	0.855	85.5	56.0-128	
Endrin ketone	ug/L	1.00	0.912	91.2	54.0-142	
Heptachlor	ug/L	1.00	0.999	99.9	34.0-140	
Heptachlor epoxide	ug/L	1.00	1.00	100	37.0-142	
Hexachlorobenzene	ug/L	1.00	0.961	96.1	35.0-120	
Methoxychlor	ug/L	1.00	0.898	89.8	44.0-160	
Decachlorobiphenyl (S)	%			74.4	10.0-144	
Tetrachloro-m-xylene (S)	%			95.5	10.0-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3797685-6 R3797685-7

Parameter	Units	60401199003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aldrin	ug/L	ND	1.00	1.00	0.731	0.576	73.1	57.6	42.0-140	23.7	35	
alpha-BHC	ug/L	ND	1.00	1.00	0.879	0.673	87.9	67.3	37.0-140	26.5	36	
beta-BHC	ug/L	ND	1.00	1.00	0.966	0.747	96.6	74.7	17.0-147	25.6	44	
delta-BHC	ug/L	ND	1.00	1.00	0.899	0.697	89.9	69.7	19.0-140	25.3	52	
gamma-BHC (Lindane)	ug/L	ND	1.00	1.00	0.835	0.635	83.5	63.5	32.0-140	27.2	39	
4,4'-DDD	ug/L	ND	1.00	1.00	0.772	0.623	77.2	62.3	31.0-141	21.4	39	
4,4'-DDE	ug/L	ND	1.00	1.00	0.764	0.584	76.4	58.4	30.0-145	26.7	35	
4,4'-DDT	ug/L	ND	1.00	1.00	0.868	0.596	86.8	59.6	25.0-160	37.2	42	
Dieldrin	ug/L	ND	1.00	1.00	0.858	0.645	85.8	64.5	36.0-146	28.3	49	
Endosulfan I	ug/L	0.117	1.00	1.00	0.872	0.656	75.5	53.9	45.0-153	28.3	28	R1
Endosulfan II	ug/L	ND	1.00	1.00	0.837	0.625	83.7	62.5	1.00-202	29.0	53	
Endosulfan sulfate	ug/L	ND	1.00	1.00	0.865	0.636	86.5	63.6	26.0-144	30.5	38	
Endrin	ug/L	ND	1.00	1.00	0.785	0.651	78.5	65.1	30.0-147	18.7	48	
Endrin aldehyde	ug/L	ND	1.00	1.00	0.842	0.513	84.2	51.3	56.0-128	48.6	20	ML,R1
Endrin ketone	ug/L	ND	1.00	1.00	0.849	0.645	84.9	64.5	54.0-142	27.3	20	R1
Heptachlor	ug/L	ND	1.00	1.00	0.881	0.671	88.1	67.1	34.0-140	27.1	43	
Heptachlor epoxide	ug/L	ND	1.00	1.00	0.845	0.645	84.5	64.5	37.0-142	26.8	26	R1
Hexachlorobenzene	ug/L	ND	1.00	1.00	0.845	0.677	84.5	67.7	35.0-120	22.1	25	
Methoxychlor	ug/L	ND	1.00	1.00	1.06	0.646	106	64.6	44.0-160	48.5	22	R1
Decachlorobiphenyl (S)	%						67.9	57.7	10.0-144			
Tetrachloro-m-xylene (S)	%						82.2	62.9	10.0-135			

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REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

QC Batch: 1871173
QC Batch Method: 3510C
Analysis Method: EPA 608.3
Analysis Description: PCBs(GC) EPA-608.3
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 60401199003

METHOD BLANK: R3797685-1 Matrix: Water
Associated Lab Samples: 60401199003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aldrin	ug/L	ND	0.0500	05/30/22 18:17	
PCB-1016 (Aroclor 1016)	ug/L	ND	0.500	05/30/22 18:17	
alpha-BHC	ug/L	ND	0.0500	05/30/22 18:17	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.500	05/30/22 18:17	
beta-BHC	ug/L	ND	0.0500	05/30/22 18:17	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.500	05/30/22 18:17	
delta-BHC	ug/L	ND	0.0500	05/30/22 18:17	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.500	05/30/22 18:17	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.500	05/30/22 18:17	
gamma-BHC (Lindane)	ug/L	ND	0.0500	05/30/22 18:17	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.500	05/30/22 18:17	
Chlordane (Technical)	ug/L	ND	5.00	05/30/22 18:17	
4,4'-DDD	ug/L	ND	0.0500	05/30/22 18:17	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.500	05/30/22 18:17	
PCB, Total	ug/L	ND	0.500	05/30/22 18:17	
4,4'-DDE	ug/L	ND	0.0500	05/30/22 18:17	
4,4'-DDT	ug/L	ND	0.0500	05/30/22 18:17	
Dieldrin	ug/L	ND	0.0500	05/30/22 18:17	
Endosulfan I	ug/L	ND	0.0500	05/30/22 18:17	
Endosulfan II	ug/L	ND	0.0500	05/30/22 18:17	
Endosulfan sulfate	ug/L	ND	0.0500	05/30/22 18:17	
Endrin	ug/L	ND	0.0500	05/30/22 18:17	
Endrin aldehyde	ug/L	ND	0.0500	05/30/22 18:17	
Endrin ketone	ug/L	ND	0.0500	05/30/22 18:17	
Heptachlor	ug/L	ND	0.0500	05/30/22 18:17	
Heptachlor epoxide	ug/L	ND	0.0500	05/30/22 18:17	
Hexachlorobenzene	ug/L	ND	0.0500	05/30/22 18:17	
Methoxychlor	ug/L	ND	0.0500	05/30/22 18:17	
Toxaphene	ug/L	ND	0.500	05/30/22 18:17	
Decachlorobiphenyl (S)	%	55.3	10.0-144	05/30/22 18:17	
Tetrachloro-m-xylene (S)	%	107	10.0-135	05/30/22 18:17	
Decachlorobiphenyl (S)	%	63.1	10.0-144	05/30/22 18:17	
Tetrachloro-m-xylene (S)	%	112	10.0-135	05/30/22 18:17	

LABORATORY CONTROL SAMPLE: R3797685-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	2.50	2.69	108	50.0-140	
PCB-1260 (Aroclor 1260)	ug/L	2.50	2.14	85.6	8.00-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

LABORATORY CONTROL SAMPLE: R3797685-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Decachlorobiphenyl (S)	%			60.0	10.0-144	
Tetrachloro-m-xylene (S)	%			94.0	10.0-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3797685-3 R3797685-4

Parameter	Units	60401199003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/L	ND	2.50	2.50	2.15	2.27	86.0	90.8	50.0-140	5.43	36	
PCB-1260 (Aroclor 1260)	ug/L	ND	2.50	2.50	1.29	1.21	51.6	48.4	8.00-140	6.40	38	
Decachlorobiphenyl (S)	%						40.8	45.0	10.0-144			
Tetrachloro-m-xylene (S)	%						60.3	60.4	10.0-135			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

QC Batch: 790406
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60401199001

METHOD BLANK: 3150061 Matrix: Water
Associated Lab Samples: 60401199001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/06/22 13:49	

LABORATORY CONTROL SAMPLE: 3150062

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.7	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3150063 3150064

Parameter	Units	60400987001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.5	4.6	90	92	70-130	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

QC Batch: 789107
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60401199001

METHOD BLANK: 3145178 Matrix: Water
Associated Lab Samples: 60401199001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	05/27/22 14:51	
Beryllium	ug/L	ND	1.0	05/27/22 14:51	
Cadmium	ug/L	ND	5.0	05/27/22 14:51	
Chromium	ug/L	ND	5.0	05/27/22 14:51	
Copper	ug/L	ND	10.0	05/27/22 14:51	
Lead	ug/L	ND	10.0	05/27/22 14:51	
Molybdenum	ug/L	ND	20.0	05/27/22 14:51	
Nickel	ug/L	ND	5.0	05/27/22 14:51	
Selenium	ug/L	ND	15.0	05/27/22 14:51	
Silver	ug/L	ND	7.0	05/27/22 14:51	
Thallium	ug/L	ND	20.0	05/27/22 14:51	
Zinc	ug/L	ND	50.0	05/27/22 14:51	

LABORATORY CONTROL SAMPLE: 3145179

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	976	98	85-115	
Beryllium	ug/L	1000	1080	108	85-115	
Cadmium	ug/L	1000	1050	105	85-115	
Chromium	ug/L	1000	1000	100	85-115	
Copper	ug/L	1000	971	97	85-115	
Lead	ug/L	1000	1040	104	85-115	
Molybdenum	ug/L	1000	1030	103	85-115	
Nickel	ug/L	1000	1040	104	85-115	
Selenium	ug/L	1000	1110	111	85-115	
Silver	ug/L	500	494	99	85-115	
Thallium	ug/L	1000	986	99	85-115	
Zinc	ug/L	1000	1040	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3145180 3145181

Parameter	Units	60401194001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	1000	1000	1010	985	101	98	70-130	3	20	
Beryllium	ug/L	ND	1000	1000	1110	1070	111	107	70-130	4	20	
Cadmium	ug/L	ND	1000	1000	1030	1000	103	100	70-130	2	20	
Chromium	ug/L	10.1	1000	1000	1080	1030	107	102	70-130	5	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3145180 3145181

Parameter	Units	60401194001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	122	1000	1000	1270	1220	114	110	70-130	4	20	
Lead	ug/L	ND	1000	1000	1070	1040	107	103	70-130	3	20	
Molybdenum	ug/L	ND	1000	1000	1110	1050	110	104	70-130	6	20	
Nickel	ug/L	16.1	1000	1000	1130	1070	111	105	70-130	5	20	
Selenium	ug/L	ND	1000	1000	1170	1140	117	114	70-130	3	20	
Silver	ug/L	ND	500	500	558	534	112	107	70-130	4	20	
Thallium	ug/L	ND	1000	1000	1030	1000	103	100	70-130	3	20	
Zinc	ug/L	287	1000	1000	1370	1310	108	102	70-130	4	20	

MATRIX SPIKE SAMPLE: 3145182

Parameter	Units	60401107004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	1000	1010	101	70-130	
Beryllium	ug/L	ND	1000	1050	105	70-130	
Cadmium	ug/L	ND	1000	975	97	70-130	
Chromium	ug/L	252	1000	1290	104	70-130	
Copper	ug/L	ND	1000	1260	125	70-130	
Lead	ug/L	ND	1000	1030	103	70-130	
Molybdenum	ug/L	24.5	1000	1110	109	70-130	
Nickel	ug/L	79.8	1000	1140	106	70-130	
Selenium	ug/L	ND	1000	1170	117	70-130	
Silver	ug/L	ND	500	617	123	70-130	
Thallium	ug/L	ND	1000	961	96	70-130	
Zinc	ug/L	ND	1000	1010	99	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

QC Batch: 790005
QC Batch Method: EPA 624.1
Analysis Method: EPA 624.1
Analysis Description: 624.1 MSV
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60401199006

METHOD BLANK: 3148558 Matrix: Water
Associated Lab Samples: 60401199006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/01/22 22:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/01/22 22:30	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/01/22 22:30	
1,1-Dichloroethane	ug/L	ND	1.0	06/01/22 22:30	
1,1-Dichloroethene	ug/L	ND	1.0	06/01/22 22:30	
1,2-Dichloroethane	ug/L	ND	1.0	06/01/22 22:30	
1,2-Dichloropropane	ug/L	ND	1.0	06/01/22 22:30	
2-Chloroethylvinyl ether	ug/L	ND	10.0	06/01/22 22:30	
Acrolein	ug/L	ND	50.0	06/01/22 22:30	
Acrylonitrile	ug/L	ND	20.0	06/01/22 22:30	
Benzene	ug/L	ND	1.0	06/01/22 22:30	
Bromoform	ug/L	ND	1.0	06/01/22 22:30	
Bromomethane	ug/L	ND	5.0	06/01/22 22:30	
Carbon tetrachloride	ug/L	ND	1.0	06/01/22 22:30	
Chlorobenzene	ug/L	ND	1.0	06/01/22 22:30	
Chloroform	ug/L	ND	1.0	06/01/22 22:30	
Chloromethane	ug/L	ND	1.0	06/01/22 22:30	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/01/22 22:30	
Dibromochloromethane	ug/L	ND	1.0	06/01/22 22:30	
Ethylbenzene	ug/L	ND	1.0	06/01/22 22:30	
Methylene Chloride	ug/L	ND	1.0	06/01/22 22:30	
Tetrachloroethene	ug/L	ND	1.0	06/01/22 22:30	
Toluene	ug/L	ND	1.0	06/01/22 22:30	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/01/22 22:30	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/01/22 22:30	
Trichloroethene	ug/L	ND	1.0	06/01/22 22:30	
Vinyl chloride	ug/L	ND	1.0	06/01/22 22:30	
1,2-Dichlorobenzene-d4 (S)	%	100	80-120	06/01/22 22:30	
4-Bromofluorobenzene (S)	%	101	80-120	06/01/22 22:30	
Toluene-d8 (S)	%	99	80-120	06/01/22 22:30	

LABORATORY CONTROL SAMPLE: 3148559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	22.2	111	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.7	103	60-140	
1,1,2-Trichloroethane	ug/L	20	25.0	125	70-130	
1,1-Dichloroethane	ug/L	20	22.0	110	70-130	
1,1-Dichloroethene	ug/L	20	20.9	104	50-150	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

LABORATORY CONTROL SAMPLE: 3148559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	21.4	107	70-130	
1,2-Dichloropropane	ug/L	20	20.4	102	35-165	
2-Chloroethylvinyl ether	ug/L	100	114	114	11-255	
Acrolein	ug/L	100	95.3	95	60-140	
Acrylonitrile	ug/L	100	98.0	98	60-140	
Benzene	ug/L	20	20.4	102	65-135	
Bromoform	ug/L	20	22.6	113	70-130	
Bromomethane	ug/L	20	22.1	110	15-185	
Carbon tetrachloride	ug/L	20	23.3	116	70-130	
Chlorobenzene	ug/L	20	20.3	102	65-135	
Chloroform	ug/L	20	19.9	100	70-135	
Chloromethane	ug/L	20	25.0	125	10-205	
cis-1,3-Dichloropropene	ug/L	20	21.8	109	25-175	
Dibromochloromethane	ug/L	20	22.0	110	70-135	
Ethylbenzene	ug/L	20	20.7	104	60-140	
Methylene Chloride	ug/L	20	21.5	108	60-140	
Tetrachloroethene	ug/L	20	22.3	111	70-130	
Toluene	ug/L	20	20.4	102	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.1	100	70-130	
trans-1,3-Dichloropropene	ug/L	20	22.2	111	50-150	
Trichloroethene	ug/L	20	20.9	104	65-135	
Vinyl chloride	ug/L	20	21.7	109	5-195	
1,2-Dichlorobenzene-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			98	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

QC Batch: 789536
QC Batch Method: EPA 625.1
Analysis Method: EPA 625.1
Analysis Description: 6251 MSS
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60401199005

METHOD BLANK: 3146888 Matrix: Water

Associated Lab Samples: 60401199005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/03/22 09:41	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/03/22 09:41	
2,4-Dinitrophenol	ug/L	ND	50.0	06/03/22 09:41	
2,4-Dinitrotoluene	ug/L	ND	5.0	06/03/22 09:41	
2,6-Dinitrotoluene	ug/L	ND	5.0	06/03/22 09:41	
2-Chloronaphthalene	ug/L	ND	5.0	06/03/22 09:41	
2-Nitrophenol	ug/L	ND	5.0	06/03/22 09:41	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	06/03/22 09:41	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/03/22 09:41	
4-Bromophenylphenyl ether	ug/L	ND	5.0	06/03/22 09:41	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	06/03/22 09:41	
4-Nitrophenol	ug/L	ND	5.0	06/03/22 09:41	
Acenaphthene	ug/L	ND	5.0	06/03/22 09:41	
Acenaphthylene	ug/L	ND	5.0	06/03/22 09:41	
Anthracene	ug/L	ND	5.0	06/03/22 09:41	
Benzidine	ug/L	ND	50.0	06/03/22 09:41	
Benzo(a)anthracene	ug/L	ND	5.0	06/03/22 09:41	
Benzo(a)pyrene	ug/L	ND	5.0	06/03/22 09:41	
Benzo(b)fluoranthene	ug/L	ND	5.0	06/03/22 09:41	
Benzo(g,h,i)perylene	ug/L	ND	5.0	06/03/22 09:41	
Benzo(k)fluoranthene	ug/L	ND	5.0	06/03/22 09:41	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	06/03/22 09:41	
bis(2-Chloroethyl) ether	ug/L	ND	5.0	06/03/22 09:41	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	06/03/22 09:41	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	06/03/22 09:41	
Butylbenzylphthalate	ug/L	ND	5.0	06/03/22 09:41	
Chrysene	ug/L	ND	5.0	06/03/22 09:41	
Di-n-butylphthalate	ug/L	ND	5.0	06/03/22 09:41	
Di-n-octylphthalate	ug/L	ND	5.0	06/03/22 09:41	
Dibenz(a,h)anthracene	ug/L	ND	5.0	06/03/22 09:41	
Diethylphthalate	ug/L	ND	5.0	06/03/22 09:41	
Dimethylphthalate	ug/L	ND	5.0	06/03/22 09:41	
Fluoranthene	ug/L	ND	5.0	06/03/22 09:41	
Fluorene	ug/L	ND	5.0	06/03/22 09:41	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/03/22 09:41	
Hexachlorobenzene	ug/L	ND	5.0	06/03/22 09:41	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/03/22 09:41	
Hexachloroethane	ug/L	ND	5.0	06/03/22 09:41	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	06/03/22 09:41	
Isophorone	ug/L	ND	5.0	06/03/22 09:41	

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QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

METHOD BLANK: 3146888 Matrix: Water
Associated Lab Samples: 60401199005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	06/03/22 09:41	
N-Nitrosodimethylamine	ug/L	ND	5.0	06/03/22 09:41	
N-Nitrosodiphenylamine	ug/L	ND	5.0	06/03/22 09:41	
Naphthalene	ug/L	ND	5.0	06/03/22 09:41	
Nitrobenzene	ug/L	ND	5.0	06/03/22 09:41	
Pentachlorophenol	ug/L	ND	5.0	06/03/22 09:41	
Phenanthrene	ug/L	ND	5.0	06/03/22 09:41	
Phenol	ug/L	ND	5.0	06/03/22 09:41	
Pyrene	ug/L	ND	5.0	06/03/22 09:41	
2,4,6-Tribromophenol (S)	%	86	24-126	06/03/22 09:41	
2-Fluorobiphenyl (S)	%	81	24-110	06/03/22 09:41	
2-Fluorophenol (S)	%	47	20-59	06/03/22 09:41	
Nitrobenzene-d5 (S)	%	80	24-110	06/03/22 09:41	
Phenol-d6 (S)	%	30	11-42	06/03/22 09:41	
Terphenyl-d14 (S)	%	84	35-118	06/03/22 09:41	

LABORATORY CONTROL SAMPLE: 3146889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	35.3	71	57-130	
2,4,6-Trichlorophenol	ug/L	50	39.4	79	52-129	
2,4-Dinitrophenol	ug/L	50	40.9J	82	10-173	
2,4-Dinitrotoluene	ug/L	50	41.9	84	48-127	
2,6-Dinitrotoluene	ug/L	50	40.9	82	68-137	
2-Chloronaphthalene	ug/L	50	37.8	76	65-120	
2-Nitrophenol	ug/L	50	39.2	78	13-1129	
3,3'-Dichlorobenzidine	ug/L	50	63.9	128	10-213	
4,6-Dinitro-2-methylphenol	ug/L	50	45.0	90	58-125	
4-Bromophenylphenyl ether	ug/L	50	39.8	80	65-120	
4-Chlorophenylphenyl ether	ug/L	50	38.5	77	38-145	
4-Nitrophenol	ug/L	50	16.4	33	13-129	
Acenaphthene	ug/L	50	38.4	77	60-132	
Acenaphthylene	ug/L	50	38.3	77	54-126	
Anthracene	ug/L	50	40.1	80	43-120	
Benzidine	ug/L	50	36.6J	73	10-123	
Benzo(a)anthracene	ug/L	50	40.2	80	42-133	
Benzo(a)pyrene	ug/L	50	41.1	82	32-148	
Benzo(b)fluoranthene	ug/L	50	42.7	85	42-140	
Benzo(g,h,i)perylene	ug/L	50	40.9	82	10-195	
Benzo(k)fluoranthene	ug/L	50	39.1	78	25-146	
bis(2-Chloroethoxy)methane	ug/L	50	37.7	75	49-165	
bis(2-Chloroethyl) ether	ug/L	50	37.2	74	43-126	
bis(2-Chloroisopropyl) ether	ug/L	50	37.3	75	63-139	
bis(2-Ethylhexyl)phthalate	ug/L	50	42.8	86	20-137	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

LABORATORY CONTROL SAMPLE: 3146889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Butylbenzylphthalate	ug/L	50	42.2	84	10-140	
Chrysene	ug/L	50	40.4	81	44-140	
Di-n-butylphthalate	ug/L	50	43.0	86	65-112	
Di-n-octylphthalate	ug/L	50	44.9	90	19-132	
Dibenz(a,h)anthracene	ug/L	50	41.6	83	10-200	
Diethylphthalate	ug/L	50	39.9	80	10-120	
Dimethylphthalate	ug/L	50	40.3	81	10-120	
Fluoranthene	ug/L	50	41.4	83	43-121	
Fluorene	ug/L	50	38.9	78	70-120	
Hexachloro-1,3-butadiene	ug/L	50	33.8	68	38-120	
Hexachlorobenzene	ug/L	50	38.9	78	10-142	
Hexachlorocyclopentadiene	ug/L	50	34.1	68	19-56	L1
Hexachloroethane	ug/L	50	32.8	66	55-120	
Indeno(1,2,3-cd)pyrene	ug/L	50	42.7	85	10-151	
Isophorone	ug/L	50	38.2	76	47-180	
N-Nitroso-di-n-propylamine	ug/L	50	38.3	77	14-198	
N-Nitrosodimethylamine	ug/L	50	22.7	45	20-67	
N-Nitrosodiphenylamine	ug/L	50	39.2	78	64-102	
Naphthalene	ug/L	50	36.4	73	36-120	
Nitrobenzene	ug/L	50	37.9	76	54-158	
Pentachlorophenol	ug/L	50	40.6	81	38-152	
Phenanthrene	ug/L	50	40.2	80	65-120	
Phenol	ug/L	50	14.5	29	17-120	
Pyrene	ug/L	50	40.1	80	70-120	
2,4,6-Tribromophenol (S)	%			80	24-126	
2-Fluorobiphenyl (S)	%			72	24-110	
2-Fluorophenol (S)	%			42	20-59	
Nitrobenzene-d5 (S)	%			72	24-110	
Phenol-d6 (S)	%			27	11-42	
Terphenyl-d14 (S)	%			77	35-118	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3146890 3146891

Parameter	Units	60401414002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trichlorobenzene	ug/L	ND	90.9	62.5	59.0	44.7	65	72	44-109	27	34	
2,4,6-Trichlorophenol	ug/L	ND	90.9	62.5	69.5	50.9	76	81	37-123	31	35	
2,4-Dinitrophenol	ug/L	ND	90.9	62.5	53J	43.2J	58	69	10-154		18	
2,4-Dinitrotoluene	ug/L	ND	90.9	62.5	72.6	52.7	80	84	39-122	32	32	
2,6-Dinitrotoluene	ug/L	ND	90.9	62.5	74.5	55.9	82	89	50-119	29	34	
2-Chloronaphthalene	ug/L	ND	90.9	62.5	64.2	47.3	71	76	60-98	30	32	
2-Nitrophenol	ug/L	ND	90.9	62.5	65.8	51.8	72	83	29-132	24	34	
3,3'-Dichlorobenzidine	ug/L	ND	90.9	62.5	107	75.9	117	121	10-156	34	53	
4,6-Dinitro-2-methylphenol	ug/L	ND	90.9	62.5	62.1	49.8	68	80	10-158	22	18	R1
4-Bromophenylphenyl ether	ug/L	ND	90.9	62.5	67.9	50.7	75	81	53-115	29	34	

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QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3146890 3146891

Parameter	Units	60401414002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Chlorophenylphenyl ether	ug/L	ND	90.9	62.5	64.8	47.4	71	76	29-111	31	31	
4-Nitrophenol	ug/L	ND	90.9	62.5	ND	ND	0	0	17-49		35	M1
Acenaphthene	ug/L	ND	90.9	62.5	65.8	47.6	72	76	47-110	32	30	R1
Acenaphthylene	ug/L	ND	90.9	62.5	65.8	48.3	72	77	33-110	31	36	
Anthracene	ug/L	ND	90.9	62.5	69.5	51.0	76	82	27-114	31	33	
Benzidine	ug/L	ND	90.9	62.5	ND	ND	14	8	10-18		50	M1
Benzo(a)anthracene	ug/L	ND	90.9	62.5	70.5	52.3	78	84	33-113	30	31	
Benzo(a)pyrene	ug/L	ND	90.9	62.5	71.6	51.0	79	82	26-116	34	32	R1
Benzo(b)fluoranthene	ug/L	ND	90.9	62.5	70.0	54.9	77	88	28-121	24	35	
Benzo(g,h,i)perylene	ug/L	ND	90.9	62.5	69.6	50.1	77	80	24-118	33	41	
Benzo(k)fluoranthene	ug/L	ND	90.9	62.5	68.1	46.0	75	74	26-116	39	36	R1
bis(2-Chloroethoxy)methane	ug/L	ND	90.9	62.5	61.9	47.5	68	76	33-109	26	31	
bis(2-Chloroethyl) ether	ug/L	ND	90.9	62.5	59.8	46.4	66	74	27-106	25	30	
bis(2-Chloroisopropyl) ether	ug/L	ND	90.9	62.5	59.9	46.1	66	74	36-113	26	31	
bis(2-Ethylhexyl)phthalate	ug/L	ND	90.9	62.5	83.0	61.6	90	96	33-129	30	26	R1
Butylbenzylphthalate	ug/L	ND	90.9	62.5	85.3	63.7	94	102	32-131	29	27	R1
Chrysene	ug/L	ND	90.9	62.5	68.0	50.5	75	81	30-116	30	32	
Di-n-butylphthalate	ug/L	ND	90.9	62.5	77.5	56.6	85	91	31-120	31	33	
Di-n-octylphthalate	ug/L	ND	90.9	62.5	91.4	64.7	101	103	27-142	34	31	R1
Dibenz(a,h)anthracene	ug/L	ND	90.9	62.5	71.2	51.4	78	82	25-119	32	39	
Diethylphthalate	ug/L	ND	90.9	62.5	68.7	49.7	76	79	30-112	32	31	R1
Dimethylphthalate	ug/L	ND	90.9	62.5	65.7	49.0	72	78	29-111	29	31	
Fluoranthene	ug/L	ND	90.9	62.5	70.8	51.4	78	82	28-115	32	34	
Fluorene	ug/L	ND	90.9	62.5	67.0	49.6	74	79	59-111	30	34	
Hexachloro-1,3-butadiene	ug/L	ND	90.9	62.5	56.3	42.7	62	68	24-103	27	36	
Hexachlorobenzene	ug/L	ND	90.9	62.5	63.9	47.5	70	76	28-111	29	33	
Hexachlorocyclopentadiene	ug/L	ND	90.9	62.5	32.6	26.6	36	43	10-68	20	53	
Hexachloroethane	ug/L	ND	90.9	62.5	53.5	42.7	59	68	40-110	23	36	
Indeno(1,2,3-cd)pyrene	ug/L	ND	90.9	62.5	73.8	52.5	81	84	25-117	34	39	
Isophorone	ug/L	ND	90.9	62.5	61.5	47.3	68	76	28-107	26	30	
N-Nitroso-di-n-propylamine	ug/L	ND	90.9	62.5	60.9	48.3	67	77	59-100	23	32	
N-Nitrosodimethylamine	ug/L	ND	90.9	62.5	36.2	26.4	40	42	28-110	31	50	
N-Nitrosodiphenylamine	ug/L	ND	90.9	62.5	63.7	45.7	70	73	16-66	33	61	M1
Naphthalene	ug/L	ND	90.9	62.5	61.1	46.2	67	74	23-111	28	30	
Nitrobenzene	ug/L	ND	90.9	62.5	61.0	46.9	67	75	35-118	26	32	
Pentachlorophenol	ug/L	ND	90.9	62.5	66.4	51.1	73	82	14-147	26	15	R1
Phenanthrene	ug/L	ND	90.9	62.5	67.8	49.7	75	80	54-113	31	31	
Phenol	ug/L	ND	90.9	62.5	28.3	22.1	31	35	16-42	25	32	
Pyrene	ug/L	ND	90.9	62.5	70.9	52.8	78	85	52-115	29	32	
2,4,6-Tribromophenol (S)	%						80	79	24-126			
2-Fluorobiphenyl (S)	%						72	74	24-110			
2-Fluorophenol (S)	%						40	42	20-59			
Nitrobenzene-d5 (S)	%						71	75	24-110			
Phenol-d6 (S)	%						27	28	11-42			
Terphenyl-d14 (S)	%						79	81	35-118			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

QC Batch: 790494
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 HEM, Oil and Grease
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60401199009

METHOD BLANK: 3150436 Matrix: Water
Associated Lab Samples: 60401199009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/06/22 14:03	

LABORATORY CONTROL SAMPLE: 3150437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	32.0	80	78-114	

MATRIX SPIKE SAMPLE: 3150438

Parameter	Units	60401108001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	5.8	95.2	83.2	81	78-114	

SAMPLE DUPLICATE: 3150439

Parameter	Units	60401108002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	45.2	1.7J		18	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

QC Batch: 789149
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60401199002

METHOD BLANK: 3145320 Matrix: Water
Associated Lab Samples: 60401199002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	05/27/22 13:07	

LABORATORY CONTROL SAMPLE: 3145321

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1080	108	80-120	

SAMPLE DUPLICATE: 3145322

Parameter	Units	60401187002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	934	943	1	10	H1

SAMPLE DUPLICATE: 3145323

Parameter	Units	60401058007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	502	513	2	10	

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QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

QC Batch: 789081
QC Batch Method: SM 3500-Cr B
Analysis Method: SM 3500-Cr B
Analysis Description: Chromium, Hexavalent by 3500
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60401199002

METHOD BLANK: 3145098 Matrix: Water
Associated Lab Samples: 60401199002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	ND	0.010	05/26/22 14:14	

LABORATORY CONTROL SAMPLE: 3145099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.1	0.11	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3145100 3145101

Parameter	Units	60401199002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/L	ND	0.1	0.1	0.10	0.10	100	100	85-115	0	20	H3

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QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

QC Batch: 789732
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60401199010

METHOD BLANK: 3147633 Matrix: Water
Associated Lab Samples: 60401199010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	06/02/22 11:25	

LABORATORY CONTROL SAMPLE: 3147634

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	5	5.2	104	90-110	

MATRIX SPIKE SAMPLE: 3147635

Parameter	Units	60401035001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	29.7	10	38.6	89	90-110	M1

SAMPLE DUPLICATE: 3147636

Parameter	Units	60401199010 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4.4	4.5	2	10	

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QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

QC Batch: 789523
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60401199010

METHOD BLANK: 3146619 Matrix: Water
Associated Lab Samples: 60401199010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	06/01/22 10:11	

LABORATORY CONTROL SAMPLE: 3146620

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	101	90-110	

MATRIX SPIKE SAMPLE: 3146621

Parameter	Units	60400884004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	1.2	61	90-110	M1

SAMPLE DUPLICATE: 3146623

Parameter	Units	60400889005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

QC Batch: 790021
QC Batch Method: EPA 365.4
Analysis Method: EPA 365.4
Analysis Description: 365.4 Phosphorus
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60401199010

METHOD BLANK: 3148588 Matrix: Water
Associated Lab Samples: 60401199010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.10	06/03/22 09:10	

LABORATORY CONTROL SAMPLE: 3148589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2	1.8	92	90-110	

MATRIX SPIKE SAMPLE: 3148590

Parameter	Units	60401035001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	9.0	2	10.8	88	90-110	E,M1

SAMPLE DUPLICATE: 3148591

Parameter	Units	60401035002 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	mg/L	6.0	5.8	5	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

QC Batch: 789746
QC Batch Method: EPA 420.1
Analysis Method: EPA 420.1
Analysis Description: 420.1 Phenolics Macro
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60401199007

METHOD BLANK: 3147669 Matrix: Water
Associated Lab Samples: 60401199007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	mg/L	ND	0.050	06/01/22 11:42	

LABORATORY CONTROL SAMPLE: 3147670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/L	0.25	0.27	107	90-110	

MATRIX SPIKE SAMPLE: 3147671

Parameter	Units	60399981002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/L	5.5	0.25	6.9	544	90-110	M1

MATRIX SPIKE SAMPLE: 3147673

Parameter	Units	60401007003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/L	0.18	0.25	0.40	86	90-110	M1

SAMPLE DUPLICATE: 3147672

Parameter	Units	60400274002 Result	Dup Result	RPD	Max RPD	Qualifiers
Phenolics, Total Recoverable	mg/L	0.65	0.67	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

QC Batch: 789405
QC Batch Method: SM 4500-CN-E
Analysis Method: SM 4500-CN-E
Analysis Description: 4500CNE Cyanide, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60401199008

METHOD BLANK: 3146084 Matrix: Water
Associated Lab Samples: 60401199008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	05/28/22 10:01	

LABORATORY CONTROL SAMPLE: 3146085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.1	0.096	96	69-126	

MATRIX SPIKE SAMPLE: 3146086

Parameter	Units	60401338001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	0.1	0.063	61	55-124	

SAMPLE DUPLICATE: 3146087

Parameter	Units	60401338001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	ND	ND		46	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

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 adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.
c3	Analysis of 2-chloroethyl vinyl ether was performed from a sample that was field preserved to pH < 2 with HCl. Acid preservation is not allowed for this parameter by the test method or for NPDES compliance per 40CFR Part 136.

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PRIORITY POLLUTANT SCAN
Pace Project No.: 60401199

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60401199003	**OUTFALL 002**	3510C	1871173	EPA 608.3	1871173
60401199003	**OUTFALL 002**	3510C	1871173	EPA 608.3	1871173
60401199001	**OUTFALL 002**	EPA 200.7	789107	EPA 200.7	789165
60401199001	**OUTFALL 002**	EPA 245.1	790406	EPA 245.1	790730
60401199005	**OUTFALL 002**	EPA 625.1	789536	EPA 625.1	790362
60401199006	**OUTFALL 002**	EPA 624.1	790005		
60401199009	**OUTFALL 002**	EPA 1664A	790494		
60401199002	**OUTFALL 002**	SM 2540C	789149		
60401199002	**OUTFALL 002**	SM 3500-Cr B	789081		
60401199010	**OUTFALL 002**	EPA 351.2	789732	EPA 351.2	789835
60401199010	**OUTFALL 002**	EPA 353.2	789523		
60401199010	**OUTFALL 002**	EPA 365.4	790021	EPA 365.4	790385
60401199007	**OUTFALL 002**	EPA 420.1	789746	EPA 420.1	789849
60401199008	**OUTFALL 002**	SM 4500-CN-E	789405	SM 4500-CN-E	789517

WO# : 60401199

60401199

DC#_Title: ENV-FRM-LENE-0009_Sample		
Revision: 2	Effective Date: 01/12/2022	Issued By: Lenexa

Client Name: EEG

Courier: FedEx ☑ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐

Tracking #: 7769 4832 3940 Pace Shipping Label Used? Yes ☑ No ☐

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☑ Bubble Bags ☑ Foam ☐ None ☐ Other ☑ 2PLC

Thermometer Used: T301 Type of Ice: (Wet) Blue None

Date and initials of person examining contents: JA 5/25/22

Cooler Temperature (°C): As-read 4.6 Corr. Factor -1.0 Corrected 3.6

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	NOX, HEX
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#: 55192, 55193	☑Yes ☐No ☐N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☑No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☑No	
Trip Blank present:	☐Yes ☐No ☐N/A	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☐N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☐N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☑No ☐N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date:

Pag

Qualtrax Document ID: 30468

EEG
Environmental Enterprise Group, Inc.
PROVIDING CUSTOMIZED SERVICES NATIONWIDE

L444 - 059024

Environmental Enterprise Group, Inc.
220 North Knoxville
Russellville, Arkansas 72801
(479) 968-6767 Fax (479) 968-1956

Company Name: Clarksville Connected Utilities
Phone #: (479) 754-7929
Address: P.O. Box 1807, Clarksville, AR 72830
Fax #: (479) 754-8181
Project Name or Number: Priority Pollutant Scan
Purchase Order #:
Sampling Personnel Signature(s):
Printed: Porsha Russell William Summers

Sample I.D.	Date	Time	Comp.	Grab	Cont.Type: Plast.	Cont.Type: Glass	# of Containers	Method Preserved: H2SO4	HNO3	NAOH	HCL	Ice	None	Sample Matrix: Water	Soil	Air	Sludge	Other	Metals*	TDS & Hexavalent Chromium	608 Pest/PCB's	Dioxin (2, 3, 7, 8 - TCDD)	625 SVOC's	624 VOC's	Phenol Total	Cyanide	Oil and Grease	Nitrate + Nitrite, TKN, TP	Laboratory Control Number	Remarks (Please note special detection limits below.)
Outfall 002	5.23.22 5.24.22	0615 0615	X		X		1		X			X		X					X										0522138	
Outfall 002	5.23.22	0622		X	X		1					X		X						X									0522139	
Outfall 002	5.23.22 5.24.22	0615 0615	X			X	2					X		X							X								0522138	
Outfall 002	5.23.22 5.24.22	0615 0615	X			X	1					X		X								X								
Outfall 002	5.23.22 5.24.22	0615 0615	X			X	2					X		X									X							
Outfall 002	5.23.22	0622		X		X	3				X	X		X										X					0522139	
Outfall 002	5.23.22	0622		X		X	1	X				X		X											X					
Outfall 002	5.23.22	0622		X	X		1			X		X		X												X				
Outfall 002	5.23.22	0622		X		X	2	X				X		X													X			
Outfall 002	5.23.22 5.24.22	0615 0615	X	*	X		1	X				X		X														X	0522138	

Relinquished by:	Date: 5-24-22	Time: 0954	Received by:	Date: 5/25/22	Time: 0915
Received by:	Date: 5/24/22	Time: 0954	Relinquished by:	Date:	Time:
Relinquished by:	Date: 5/24/22	Time: 1600	Received by Laboratory:	Date:	Time:

Comments: ***See Attached List**

3.6°

Client: EEG

Profile #: 12876

Site: Priority Pollutant Scan

Notes:

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	WPDU	ZPLC	Other	AG1S
1	WT																						1								
2																				1											
3											2																				
4											1																				
5											2																				
6			3																												
7													1																		
8																										1					
9																															2
10	V																								1						
11																															
12																															

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1C	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2C	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3C	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60401199

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

Jamie Church
PACE Kansas
9608 Loiret Blvd
Lenexa KS 66219

REPORT OF LABORATORY ANALYSIS FOR TCDD

Report Information:

Pace Project #: 10611712
Sample Receipt Date: 06/08/2022
Client Project #: 60401199
Client Sub PO #: N/A
State Cert #: 88-0680

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 2,3,7,8-TCDD Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed by:

June 21, 2022

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com

Report Prepared Date:
June 21, 2022

Report of Laboratory Analysis

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analysis performed on one sample submitted by a representative of Pace Analytical Services, LLC. The sample was analyzed for the presence or absence of 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) using USEPA Method 1613B. The reporting limits were set to correspond to the lowest calibration point and a nominal 1-Liter sample amount, and the sensitivity was verified by signal-to-noise measurements. The quantitation limits, adjusted for sample extraction amount, may be somewhat higher or lower than the reporting limits provided in this report.

The isotopically-labeled TCDD internal standard in the sample extract was recovered at 64%. All of the labeled internal standard recoveries obtained for this project were within the 40-135% target range specified in Method 1613B. Also, since the quantification of the native TCDD was based on isotope dilution, the data were automatically corrected for recovery and accurate values were obtained.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of 2,3,7,8-TCDD at the reporting limit.

Laboratory spike samples were also prepared using clean reference matrix that had been fortified with native standard material. The results show that the spiked native TCDD was recovered at 117-121% with a relative percent difference of 3.4%. These results were within the target ranges for the method. Matrix spikes were not prepared with the sample batch.

Pace Analytical Services, LLC
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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
		Mississippi	MN00064
		Missouri	10100
A2LA	2926.01	Montana	CERT0092
Alabama	40770	Nebraska	NE-OS-18-06
Alaska-DW	MN00064	Nevada	MN00064
Alaska-UST	17-009	New Hampshire	2081
Arizona	AZ0014	New Jersey	MN002
Arkansas - WW	88-0680	New York	11647
Arkansas-DW	MN00064	North Carolina-	27700
California	2929	North Carolina-	530
Colorado	MN00064	North Dakota	R-036
Connecticut	PH-0256	Ohio-DW	41244
Florida	E87605	Ohio-VAP (170	CL101
Georgia	959	Ohio-VAP (180	CL110
Hawaii	MN00064	Oklahoma	9507
Idaho	MN00064	Oregon- rimary	MN300001
Illinois	200011	Oregon-Second	MN200001
Indiana	C-MN-01	Pennsylvania	68-00563
Iowa	368	Puerto Rico	MN00064
Kansas	E-10167	South Carolina	74003
Kentucky-DW	90062	Tennessee	TN02818
Kentucky-WW	90062	Texas	T104704192
Louisiana-DEQ	AI-84596	Utah	MN00064
Louisiana-DW	MN00064	Vermont	VT-027053137
Maine	MN00064	Virginia	460163
Maryland	322	Washington	C486
Michigan	9909	West Virginia-D	382
Minnesota	027-053-137	West Virginia-D	9952C
Minnesota-Ag	via MN 027-053	Wisconsin	999407970
Minnesota-Petr	1240	Wyoming-UST	via A2LA 2926.

REPORT OF LABORATORY ANALYSIS

Appendix A

Sample Management

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: AR
Cert. Needed: ☐ Yes ☐ No

Workorder: 60401199 **Workorder Name:** PRIORITY POLLUTANT SCAN **Owner Received Date:** 5/25/2022 **Results Requested By:** 6/7/2022

Report To	Subcontract To
Jamie Church Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone 314-838-7223	Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700

WO# : 10611712
10611712

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	2,3,7,8-TCDD	LAB USE ONLY
1	OUTFALL 002	PS	5/24/2022 06:15	60401199004	Water	1	X	001
2								
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	6/1/22 1700		
2				
3			[signature] PACE	6/2 8:30

Comments

Cooler Temperature on Receipt 5.0 °C | **Custody Seal** (Y) or N | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

****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.*

	DC#_Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt (SCUR)
Pace ANALYTICAL SERVICES	Effective Date: 04/12/2022

Sample Condition Upon Receipt

Client Name: PACE, KS

Project #:

WO#: 10611712

PM: SCU **Due Date: 06/29/22**

CLIENT: PASI-KANS

Courier: ☒Fed Ex ☐UPS ☐USPS ☐Client ☐Pace ☐SpeeDee ☐Commercial

See Exceptions ☐ENV-FRM-MIN4-0142

Tracking Number: 5333 8762 6425

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) ☐T6(0235) ☐T7 (0042) ☐01339252/1710 ☐122639816 ☐140792808

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: 5.0 °C

Correction Factor: TRUE Cooler Temp Corrected w/temp blank: 5.0 °C

Average Corrected Temp (no temp blank only): _____ °C ☐See Exceptions ENV-FRM-MIN4-0142 ☐1 Container

USDA Regulated Soil: (☒N/A, water sample/Other:_____) Date/Initials of Person Examining Contents: JM 6-8-22

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 ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Location (check one): ☐ Duluth ☒ Minneapolis ☐ Virginia				COMMENTS:
Chain of Custody Present and Filled Out?	☒Yes	☐No		1.
Chain of Custody Relinquished?	☒Yes	☐No		2.
Sampler Name and/or Signature on COC?	☒Yes	☐No	☐N/A	3.
Samples Arrived within Hold Time?	☒Yes	☐No		4. If Fecal: ☐<8 hrs ☐>8hr, <24 hrs, ☐>24 hrs
Short Hold Time Analysis (<72 hr)?	☐Yes	☒No		5. ☐Fecal Coliform ☐HPC ☐Total Coliform/E coli ☐BOD/cBOD ☐Hex Chrome ☐Turbidity ☐Nitrate ☐Nitrite ☐Orthophos ☐Other
Rush Turn Around Time Requested?	☒Yes	☐No		6.
Sufficient Volume?	☒Yes	☐No		7.
Correct Containers Used?	☒Yes	☐No		8.
-Pace Containers Used?	☒Yes	☐No		
Containers Intact?	☒Yes	☐No		9.
~~Field Filtered Volume Received for Dissolved Tests?~~	~~☐Yes~~	~~☐No~~	~~☒N/A~~	~~10. Is sediment visible in the dissolved container? ☐Yes ☐No~~
Is sufficient information available to reconcile the samples to the COC? Matrix: ☒Water ☐Soil ☐Oil ☐Other-	☒Yes	☐No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ **ENV-FRM-MIN4-0142**
All containers needing acid/base preservation have been checked?	☐Yes	☐No	☒N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☐Yes	☐No	☒N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐Yes	☐No	☒N/A	Positive for Res. Chlorine? ☐Yes ☐No **pH Paper Lot#** **See Exception** ☐ **ENV-FRM-MIN4-0142**
				Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Headspace in Methyl Mercury Container?	☐Yes	☐No	☒N/A	
Extra labels present on soil VOA or WIDRO containers?	☐Yes	☐No	☒N/A	13. **See Exception** ☐ **ENV-FRM-MIN4-0140**
Headspace in VOA Vials (greater than 6mm)?	☐Yes	☐No	☒N/A	
Trip Blank Present?	☐Yes	☐No	☒N/A	14.
Trip Blank Custody Seals Present?	☐Yes	☐No	☒N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Susan C. Thuy **Date:** 06/08/22

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: SM

Pace Analytical Services, LLC
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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Reporting Flags

A = Reporting Limit based on signal to noise (EDL)

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Interferencepresent

J = Estimated value

L = Suppressive interference, analyte may be biased low

Nn = Value obtained from additional analysis

P = PCDEInterference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = SeeDiscussion

REPORT OF LABORATORY ANALYSIS

Appendix B

Sample Analysis Summary

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PACE Kansas

Client's Sample ID	OUTFALL 002		
Lab Sample ID	60401199004		
Filename	F220615B_08		
Injected By	SMT		
Total Amount Extracted	989 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	05/24/2022 06:15
ICAL ID	F220529	Received	06/08/2022 08:50
CCal Filename(s)	F220615B_02	Extracted	06/09/2022 09:55
Method Blank ID	BLANK-99388	Analyzed	06/15/2022 18:18

Native Isomers	**Conc** pg/L	**EMPC** pg/L	**RL** pg/L	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDD	ND	-----	10	2,3,7,8-TCDD-13C	2.00	64
				Recovery Standard 1,2,3,4-TCDD-13C	2.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	0.20	89

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

R = Recovery outside target range
E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Blank Analysis Results

Lab Sample Name	DFBLKHK		
Lab Sample ID	BLANK-99388	Matrix	Water
Filename	U220614A_11	Dilution	NA
Total Amount Extracted	979 mL	Extracted	06/09/2022 09:55
ICAL ID	U220611	Analyzed	06/14/2022 14:21
CCal Filename(s)	U220614A_04	Injected By	MS4

Native Isomers	**Conc** pg/L	**EMPC** pg/L	**RL** pg/L	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDD	ND	-----	10	2,3,7,8-TCDD-13C	2.00	87
				Recovery Standard 1,2,3,4-TCDD-13C	2.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	0.20	100

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

R = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-99389		
Filename	U220614A_18	Matrix	Water
Total Amount Extracted	1000 mL	Dilution	NA
ICAL ID	U220611	Extracted	06/09/2022 09:55
CCal Filename	U220614A_04	Analyzed	06/14/2022 19:52
Method Blank ID	BLANK-99388	Injected By	MS4

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDD	10	12	7.3	14.6	121
2,3,7,8-TCDD-37Cl4	10	10.0	3.7	15.8	100
2,3,7,8-TCDD-13C	100	73	25.0	141.0	73

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCSD-99390		
Filename	U220614A_19	Matrix	Water
Total Amount Extracted	1000 mL	Dilution	NA
ICAL ID	U220611	Extracted	06/09/2022 09:55
CCal Filename	U220614A_04	Analyzed	06/14/2022 20:39
Method Blank ID	BLANK-99388	Injected By	MS4

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDD	10	12	7.3	14.6	117
2,3,7,8-TCDD-37Cl4	10	9.4	3.7	15.8	94
2,3,7,8-TCDD-13C	100	76	25.0	141.0	76

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 1613B

Spike Recovery Relative Percent Difference (RPD) Results

Client	PACE Kansas		
Spike 1 ID	LCS-99389	Spike 2 ID	LCSD-99390
Spike 1 Filename	U220614A_18	Spike 2 Filename	U220614A_19

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDD	121	117	3.4

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS