ENVIROCORP LABORATORIES INC.

51 CLARK STREET, HARRINGTON, DE 19952
302-398-4313
www.envirocorplabs.com

ANALYTICAL SERVICES: NPDES, RCRA, GROUND WATER

December 31, 2020

Vince Disciullo
New Castle County Lab
187A Old Churchmans
New Castle, DE 19720

RE: MOT Influent [Annual]

Enclosed are the results of analyses for samples received by our laboratory on 12/2/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Shelly Bloom

Shelly Bloom
Supervising Analyst

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ANALYTICAL SERVICES: NPDES, RCRA, GROUND WATER

New Castle County Lab		**Project:**	MOT Influent [Annual]
187A Old Churchmans		**Project Number:**	
New Castle, DE 19720		**Reported:**	12/31/2020 11:22

Sample Summary

Lab ID	Sample	Matrix	Sampled	Received
2011995-01	MOT Influent	Waste Water	12/2/2020 7:20	12/02/20 14:15
2011995-02	MOT Influent	Waste Water	12/2/2020 8:10	12/02/20 14:15

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ANALYTICAL SERVICES: NPDES, RCRA, GROUND WATER

New Castle County Lab		**Project:**	MOT Influent [Annual]
187A Old Churchmans		**Project Number:**	
New Castle, DE 19720		**Reported:**	12/31/2020 11:22

Analytical Results

Sample ID:	MOT Influent	**Sample Start:**	12/01/20 07:10
Lab ID:	2011995-01	**Sample End:**	12/02/20 07:20
Matrix:	Waste Water	**Received:**	12/02/20 14:15
Sample Type:	Composite		

Analyte	Result	Units	Reporting Limit	Qualifier	Method	Date Prepared	Date Analyzed	Analyst
Inorganic								
Cyanide	ND	mg/L	0.00500		SM4500-CN-E	12/10/20 15:29	12/15/20 16:00	JMW
Hexavalent Chromium	ND	mg/L	0.00500		EPA 7196	12/2/20 14:44	12/2/20 14:45	ML
Metals								
Silver	ND	mg/L	0.000500		EPA 200.7	12/9/20 14:49	12/10/20 11:09	JMW
Arsenic	0.00112	mg/L	0.00100		EPA 200.7	12/9/20 14:49	12/10/20 11:09	JMW
Beryllium	ND	mg/L	0.00100		EPA 200.7	12/9/20 14:49	12/10/20 11:09	JMW
Cadmium	ND	mg/L	0.000500		EPA 200.7	12/9/20 14:49	12/10/20 11:09	JMW
Chromium	0.00188	mg/L	0.00100		EPA 200.7	12/9/20 14:49	12/10/20 11:09	JMW
Molybdenum	0.00880	mg/L	0.00100		EPA 200.7	12/9/20 14:49	12/10/20 11:09	JMW
Nickel	0.00279	mg/L	0.00100		EPA 200.7	12/9/20 14:49	12/10/20 11:09	JMW
Lead	0.00126	mg/L	0.00100		EPA 200.7	12/9/20 14:49	12/10/20 11:09	JMW
Antimony	ND	mg/L	0.00100		EPA 200.7	12/9/20 14:49	12/10/20 11:09	JMW
Selenium	0.00204	mg/L	0.00100		EPA 200.7	12/9/20 14:49	12/10/20 11:09	JMW
Thallium	0.00172	mg/L	0.00100		EPA 200.7	12/9/20 14:49	12/10/20 11:09	JMW
Zinc	0.120	mg/L	0.00100		EPA 200.7	12/9/20 14:49	12/10/20 11:09	JMW

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ANALYTICAL SERVICES: NPDES, RCRA, GROUND WATER

New Castle County Lab		**Project:**	MOT Influent [Annual]
187A Old Churchmans		**Project Number:**	
New Castle, DE 19720		**Reported:**	12/31/2020 11:22

Notes and Definitions

Item	Definition
Dry-WT	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
Reporting Limit	Lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

Chain of Custody for Work Order

Annual

2011995
New Castle County Lab
MOT Influent

Lab I.D.	Comp	Grab
	01	02

Facility Name (Source)	New Castle County		
Sample Location	MOT Influent		
	Date	Time	Performed by
Composite Sample Start	12/1/20	0710	BB
Composite Sample End	12/2/20	0720	BB
Grab Sample			

Circle Selection from list below	Circle Grab/ Composite	Analysis	Comments
1-(2)-3-4-5-6-7	Grab/(Comp)	Sb, As, Be, Cd, Cr, Pb, Mo, Ni, Se, Ag, Tl, Zn	
1-2-3-(4)-5-6-7	Grab/(Comp)	245 Hg	
1-(2)-3-4-5-6-7	Grab/(Comp)	608 PCB/Pesticides	
1-(2)-3-4-5-6-7	Grab/(Comp)	625 (w/ Dioxin Screen)	
1-2-3-4-(5)-6-7	Grab/(Comp)	Cyanide	
1-(2)-3-4-5-6-7	Grab/(Comp)	Hex-Cr	
1-2-(3)-4-5-6-7	Grab/(Comp)	420 Phenolics	
1-(2)-3-4-5-6-7	Grab/(Comp)	Asbestos	
1-2-3-(4)-5-6-7	(Grab)/Comp	624 (Volatiles)	GRAB @ 0810

Select number for each analysis in row above	Comments regarding special circumstances, appearance of effluent, etc.
Preservations List 1.) None 2.) None - Iced 3.) H2S04, pH <2, Iced 4.) HNO3, pH <2, Iced 5.) NAOH, pH >12, Iced 6.) HCL, pH <2, Iced 7.) Other (Explain in comments)	

Relinquished By	Date	Time	Received By	Date	Time
B Blad	12/2/20	0840	Michael McCulla	12-2-20	11 30
Michael McCulla	12-2-20	1415	R Newlam	12-2-20	1415

Vince Disciullo – 302-388-8392

EI Labs Cooler Temperature 8.0 °C

EMSL Analytical, Inc.
200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order ID:	042029506
Customer ID:	ENPI50
Customer PO:	
Project ID:	

Attn: Rachael Needam
Envirocorp, Inc.
51 Clark Street
Harrington, DE 19952

Phone:	(302) 398-4313
Fax:	(302) 398-4312
Received:	12/04/2020
Analyzed:	12/18/2020

Proj: MOT Influent

Test Report: Determination of Asbestos Structures > 10µm in Water Performed by the 100.2 Method (EPA 600/R-94/134)

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm²)	Area Analyzed (mm²)	ASBESTOS Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
							MFL (million fibers per liter)		
2011995-01 042029506-0001	12/11/2020 08:30 AM	3	1352	0.2640	None Detected	ND	1.70	<1.70	0.00 - 6.30

Collection Date/Time: *12/02/2020 07:20 AM*

Due to excessive particulate the analytical sensitivity of 0.2 MFL as required by the method was not reached.

Sample ozonated prior to analysis due to lab receipt time exceeding 48hr method hold time.

Analyst(s)
Ted Young (1)

Samantha Rundstrom, Laboratory Manager
or Other Approved Signatory

Any questions please contact Samantha Rundstrom-Cruz.

Initial report from: 12/18/2020 13:32:57

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty is available on request. Sample collection and containers provided by the client, acceptable bottle blank level is defined as ≤0.01MFL>10um. ND=None Detected. No Fibers Detected: the value will be reported as less than 369% of the concentration equivalent to one fiber. 1 to 4 fibers: The result will be reported as less than the corresponding upper 95% confidence limit (Poisson),5 to 30 fibers: Mean and 95% confidence intervals will be reported on the basis of the Poisson assumption. When more than 30 fibers are counted, both the Gaussian 95% confidence interval and the Poisson 95% confidence interval will be calculated. The large of these two intervals will be selected for data reporting. When the Gaussian 95% confidence interval is selected for data reporting, the Poisson will also be noted.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAC NJ DEP 03036, PA ID# 68-00367

2829 Reach Road
Williamsport, PA 17701
(570)326-4001

December 30, 2020

Shelly Bloom
Envirocorp Labs, Inc.
51 Clark Street
Harrington, DE 19952

RE: Project: 2011995
Pace Project No.: 30395560

Dear Shelly Bloom:

Enclosed are the analytical results for sample(s) received by the laboratory on December 04, 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 - Greensburg

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

Sincerely,

Samantha Merrill
samantha.merrill@pacelabs.com
(570)326-4001
Project Manager

Enclosures

cc: Erin Bichy, Envirocorp Labs
Ashley Burns, Envirocorp Labs
Rachael Needam, Envirocorp Labs

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Williamsport, PA 17701
(570)326-4001

CERTIFICATIONS

Project: 2011995
Pace Project No.: 30395560

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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Williamsport, PA 17701
(570)326-4001

SAMPLE SUMMARY

Project: 2011995
Pace Project No.: 30395560

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30395560001	**2011995-01 MOT Influent**	Water	12/02/20 07:20	12/04/20 11:12
30395560002	**2011995-02 MOT Influent**	Water	12/02/20 08:10	12/04/20 11:12

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2011995
Pace Project No.: 30395560

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30395560001	**2011995-01 MOT Influent**	EPA 608.3 Dec 2016	CWB	9	PASI-PA
		EPA 608.3 Dec 2016	CWB	20	PASI-PA
		EPA 245.1 Rev. 3.0, 1994	KAS	1	PASI-PA
		EPA 625.1 Dec 2016	EAC	23	PASI-PA
		EPA 420.1	PAS	1	PASI-PA
30395560002	**2011995-02 MOT Influent**	EPA 624.1 Dec 2016	JAS	53	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS

Project: 2011995
Pace Project No.: 30395560

Sample: 2011995-01 MOT Influent **Lab ID: 30395560001** Collected: 12/02/20 07:20 Received: 12/04/20 11:12 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
608.3 PCBs Reduced Volume	Analytical Method: EPA 608.3 Dec 2016 Preparation Method: EPA 608.3 Dec 2016							
	Pace Analytical Services - Greensburg							
PCB-1016 (Aroclor 1016)	ND	mg/L	0.00026	1	12/09/20 15:45	12/11/20 17:00	12674-11-2	1c
PCB-1221 (Aroclor 1221)	ND	mg/L	0.00026	1	12/09/20 15:45	12/11/20 17:00	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	mg/L	0.00026	1	12/09/20 15:45	12/11/20 17:00	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	mg/L	0.00026	1	12/09/20 15:45	12/11/20 17:00	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	mg/L	0.00026	1	12/09/20 15:45	12/11/20 17:00	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	mg/L	0.00026	1	12/09/20 15:45	12/11/20 17:00	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	mg/L	0.00026	1	12/09/20 15:45	12/11/20 17:00	11096-82-5	1c
Surrogates								
Tetrachloro-m-xylene (S)	64	%.	16-117	1	12/09/20 15:45	12/11/20 17:00	877-09-8	
Decachlorobiphenyl (S)	53	%.	10-146	1	12/09/20 15:45	12/11/20 17:00	2051-24-3	
608.3 Pesticides Reduced Vol.	Analytical Method: EPA 608.3 Dec 2016 Preparation Method: EPA 608.3 Dec 2016							
	Pace Analytical Services - Greensburg							
Aldrin	ND	mg/L	0.000026	1	12/09/20 15:45	12/29/20 17:39	309-00-2	
alpha-BHC	ND	mg/L	0.000026	1	12/09/20 15:45	12/29/20 17:39	319-84-6	
beta-BHC	ND	mg/L	0.000026	1	12/09/20 15:45	12/29/20 17:39	319-85-7	
delta-BHC	ND	mg/L	0.000026	1	12/09/20 15:45	12/29/20 17:39	319-86-8	
gamma-BHC (Lindane)	ND	mg/L	0.000026	1	12/09/20 15:45	12/29/20 17:39	58-89-9	
Chlordane (Technical)	ND	mg/L	0.00026	1	12/09/20 15:45	12/29/20 17:39	57-74-9	
4,4'-DDD	ND	mg/L	0.000052	1	12/09/20 15:45	12/29/20 17:39	72-54-8	
4,4'-DDE	ND	mg/L	0.000052	1	12/09/20 15:45	12/29/20 17:39	72-55-9	
4,4'-DDT	ND	mg/L	0.000052	1	12/09/20 15:45	12/29/20 17:39	50-29-3	
Dieldrin	ND	mg/L	0.000052	1	12/09/20 15:45	12/29/20 17:39	60-57-1	
Endosulfan I	ND	mg/L	0.000026	1	12/09/20 15:45	12/29/20 17:39	959-98-8	
Endosulfan II	ND	mg/L	0.000052	1	12/09/20 15:45	12/29/20 17:39	33213-65-9	
Endosulfan sulfate	ND	mg/L	0.000052	1	12/09/20 15:45	12/29/20 17:39	1031-07-8	
Endrin	ND	mg/L	0.000052	1	12/09/20 15:45	12/29/20 17:39	72-20-8	CL
Endrin aldehyde	ND	mg/L	0.000052	1	12/09/20 15:45	12/29/20 17:39	7421-93-4	
Heptachlor	ND	mg/L	0.000026	1	12/09/20 15:45	12/29/20 17:39	76-44-8	
Heptachlor epoxide	ND	mg/L	0.000026	1	12/09/20 15:45	12/29/20 17:39	1024-57-3	
Toxaphene	ND	mg/L	0.00052	1	12/09/20 15:45	12/29/20 17:39	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	60	%.	21-100	1	12/09/20 15:45	12/29/20 17:39	877-09-8	
Decachlorobiphenyl (S)	50	%.	10-113	1	12/09/20 15:45	12/29/20 17:39	2051-24-3	
245.1 Mercury	Analytical Method: EPA 245.1 Rev. 3.0, 1994 Preparation Method: EPA 245.1 Rev. 3.0, 1994							
	Pace Analytical Services - Greensburg							
Mercury	ND	mg/L	0.00020	1	12/07/20 09:37	12/07/20 18:05	7439-97-6	
625.1 Reduced Volume	Analytical Method: EPA 625.1 Dec 2016 Preparation Method: EPA 625.1 Dec 2016							
	Pace Analytical Services - Greensburg							
Acenaphthene	ND	mg/L	0.0098	10	12/09/20 10:45	12/09/20 20:43	83-32-9	ED
Anthracene	ND	mg/L	0.0098	10	12/09/20 10:45	12/09/20 20:43	120-12-7	ED
Diethylphthalate	ND	mg/L	0.0098	10	12/09/20 10:45	12/09/20 20:43	84-66-2	ED
Dimethylphthalate	ND	mg/L	0.0098	10	12/09/20 10:45	12/09/20 20:43	131-11-3	ED
Di-n-butylphthalate	ND	mg/L	0.0098	10	12/09/20 10:45	12/09/20 20:43	84-74-2	ED

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2829 Reach Road
Williamsport, PA 17701
(570)326-4001

ANALYTICAL RESULTS

Project: 2011995
Pace Project No.: 30395560

Sample: 2011995-01 MOT Influent **Lab ID: 30395560001** Collected: 12/02/20 07:20 Received: 12/04/20 11:12 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625.1 Reduced Volume	Analytical Method: EPA 625.1 Dec 2016 Preparation Method: EPA 625.1 Dec 2016							
	Pace Analytical Services - Greensburg							
4,6-Dinitro-2-methylphenol	ND	mg/L	0.025	10	12/09/20 10:45	12/09/20 20:43	534-52-1	ED
bis(2-Ethylhexyl)phthalate	ND	mg/L	0.025	10	12/09/20 10:45	12/09/20 20:43	117-81-7	ED
Fluoranthene	ND	mg/L	0.0098	10	12/09/20 10:45	12/09/20 20:43	206-44-0	ED
Fluorene	ND	mg/L	0.0098	10	12/09/20 10:45	12/09/20 20:43	86-73-7	ED
Hexachloro-1,3-butadiene	ND	mg/L	0.0098	10	12/09/20 10:45	12/09/20 20:43	87-68-3	ED
Hexachlorobenzene	ND	mg/L	0.0098	10	12/09/20 10:45	12/09/20 20:43	118-74-1	ED
Hexachloroethane	ND	mg/L	0.0098	10	12/09/20 10:45	12/09/20 20:43	67-72-1	ED
Nitrobenzene	ND	mg/L	0.0098	10	12/09/20 10:45	12/09/20 20:43	98-95-3	ED
2-Nitrophenol	ND	mg/L	0.0098	10	12/09/20 10:45	12/09/20 20:43	88-75-5	ED
4-Nitrophenol	ND	mg/L	0.0098	10	12/09/20 10:45	12/09/20 20:43	100-02-7	ED
Phenanthrene	ND	mg/L	0.0098	10	12/09/20 10:45	12/09/20 20:43	85-01-8	ED
Pyrene	ND	mg/L	0.0098	10	12/09/20 10:45	12/09/20 20:43	129-00-0	ED
Surrogates								
Nitrobenzene-d5 (S)	88	%.	15-104	10	12/09/20 10:45	12/09/20 20:43	4165-60-0	
2-Fluorobiphenyl (S)	46	%.	14-113	10	12/09/20 10:45	12/09/20 20:43	321-60-8	
Terphenyl-d14 (S)	82	%.	26-159	10	12/09/20 10:45	12/09/20 20:43	1718-51-0	
Phenol-d6 (S)	20	%.	10-48	10	12/09/20 10:45	12/09/20 20:43	13127-88-3	
2-Fluorophenol (S)	23	%.	10-66	10	12/09/20 10:45	12/09/20 20:43	367-12-4	
2,4,6-Tribromophenol (S)	59	%.	24-131	10	12/09/20 10:45	12/09/20 20:43	118-79-6	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
	Pace Analytical Services - Greensburg							
Phenolics, Total Recoverable	**0.054**	mg/L	0.050	1	12/07/20 13:36	12/07/20 13:57	64743-03-9	

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2829 Reach Road
Williamsport, PA 17701
(570)326-4001

ANALYTICAL RESULTS

Project: 2011995
Pace Project No.: 30395560

Sample: 2011995-02 MOT Influent **Lab ID: 30395560002** Collected: 12/02/20 08:10 Received: 12/04/20 11:12 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics	Analytical Method: EPA 624.1 Dec 2016							
	Pace Analytical Services - Greensburg							
Acetone	**0.13**	mg/L	0.010	1		12/11/20 02:23	67-64-1	
Acrolein	ND	mg/L	0.0040	1		12/11/20 02:23	107-02-8	AC
Acrylonitrile	ND	mg/L	0.0040	1		12/11/20 02:23	107-13-1	AC
Benzene	ND	mg/L	0.0010	1		12/11/20 02:23	71-43-2	
Bromochloromethane	ND	mg/L	0.0010	1		12/11/20 02:23	74-97-5	
Bromodichloromethane	ND	mg/L	0.0010	1		12/11/20 02:23	75-27-4	
Bromoform	**0.0059**	mg/L	0.0010	1		12/11/20 02:23	75-25-2	2c
Bromomethane	ND	mg/L	0.0010	1		12/11/20 02:23	74-83-9	
2-Butanone (MEK)	ND	mg/L	0.010	1		12/11/20 02:23	78-93-3	
Carbon disulfide	ND	mg/L	0.0010	1		12/11/20 02:23	75-15-0	
Carbon tetrachloride	ND	mg/L	0.0010	1		12/11/20 02:23	56-23-5	
Chlorobenzene	ND	mg/L	0.0010	1		12/11/20 02:23	108-90-7	
Chloroethane	ND	mg/L	0.0010	1		12/11/20 02:23	75-00-3	
2-Chloroethylvinyl ether	ND	mg/L	0.0020	1		12/11/20 02:23	110-75-8	c3
Chloroform	ND	mg/L	0.0010	1		12/11/20 02:23	67-66-3	
Chloromethane	ND	mg/L	0.0010	1		12/11/20 02:23	74-87-3	
Dibromochloromethane	**0.0015**	mg/L	0.0010	1		12/11/20 02:23	124-48-1	2c
1,2-Dichlorobenzene	ND	mg/L	0.0010	1		12/11/20 02:23	95-50-1	
1,3-Dichlorobenzene	ND	mg/L	0.0010	1		12/11/20 02:23	541-73-1	
1,4-Dichlorobenzene	ND	mg/L	0.0010	1		12/11/20 02:23	106-46-7	
1,1-Dichloroethane	ND	mg/L	0.0010	1		12/11/20 02:23	75-34-3	
1,2-Dichloroethane	ND	mg/L	0.0010	1		12/11/20 02:23	107-06-2	
1,1-Dichloroethene	ND	mg/L	0.0010	1		12/11/20 02:23	75-35-4	
cis-1,2-Dichloroethene	ND	mg/L	0.0010	1		12/11/20 02:23	156-59-2	
trans-1,2-Dichloroethene	ND	mg/L	0.0010	1		12/11/20 02:23	156-60-5	
1,2-Dichloropropane	ND	mg/L	0.0010	1		12/11/20 02:23	78-87-5	
2,2-Dichloropropane	ND	mg/L	0.0010	1		12/11/20 02:23	594-20-7	
1,1-Dichloropropene	ND	mg/L	0.0010	1		12/11/20 02:23	563-58-6	
cis-1,3-Dichloropropene	ND	mg/L	0.0010	1		12/11/20 02:23	10061-01-5	N2
trans-1,3-Dichloropropene	ND	mg/L	0.0010	1		12/11/20 02:23	10061-02-6	N2
Total 1,3-Dichloropropene	ND	mg/L	0.0020	1		12/11/20 02:23		N2
Ethylbenzene	ND	mg/L	0.0010	1		12/11/20 02:23	100-41-4	
2-Hexanone	ND	mg/L	0.010	1		12/11/20 02:23	591-78-6	
Methylene Chloride	ND	mg/L	0.0010	1		12/11/20 02:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/L	0.010	1		12/11/20 02:23	108-10-1	
Methyl-tert-butyl ether	ND	mg/L	0.0010	1		12/11/20 02:23	1634-04-4	
Styrene	ND	mg/L	0.0010	1		12/11/20 02:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	mg/L	0.0010	1		12/11/20 02:23	79-34-5	
Tetrachloroethene	ND	mg/L	0.0010	1		12/11/20 02:23	127-18-4	
Toluene	**0.0013**	mg/L	0.0010	1		12/11/20 02:23	108-88-3	
1,1,1-Trichloroethane	ND	mg/L	0.0010	1		12/11/20 02:23	71-55-6	
1,1,2-Trichloroethane	ND	mg/L	0.0010	1		12/11/20 02:23	79-00-5	
Trichloroethene	ND	mg/L	0.0010	1		12/11/20 02:23	79-01-6	
Trichlorofluoromethane	ND	mg/L	0.0010	1		12/11/20 02:23	75-69-4	
Vinyl chloride	ND	mg/L	0.0010	1		12/11/20 02:23	75-01-4	
Xylene (Total)	ND	mg/L	0.0030	1		12/11/20 02:23	1330-20-7	

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ANALYTICAL RESULTS

Project: 2011995
Pace Project No.: 30395560

Sample: 2011995-02 MOT Influent **Lab ID: 30395560002** Collected: 12/02/20 08:10 Received: 12/04/20 11:12 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics	Analytical Method: EPA 624.1 Dec 2016							
	Pace Analytical Services - Greensburg							
m&p-Xylene	ND	mg/L	0.0020	1		12/11/20 02:23	179601-23-1	
o-Xylene	ND	mg/L	0.0010	1		12/11/20 02:23	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	106	%.	80-120	1		12/11/20 02:23	460-00-4	
Toluene-d8 (S)	94	%.	80-120	1		12/11/20 02:23	2037-26-5	
1,2-Dichloroethane-d4 (S)	114	%.	80-120	1		12/11/20 02:23	17060-07-0	
Dibromofluoromethane (S)	109	%.	80-120	1		12/11/20 02:23	1868-53-7	
Preservation pH	**2.0**		2.0	1		12/11/20 02:23		B

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QUALITY CONTROL DATA

Project: 2011995
Pace Project No.: 30395560

QC Batch: 425975
QC Batch Method: EPA 245.1 Rev. 3.0, 1994
Analysis Method: EPA 245.1 Rev. 3.0, 1994
Analysis Description: 245.1 Mercury
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30395560001

METHOD BLANK: 2058767 Matrix: Water
Associated Lab Samples: 30395560001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	12/07/20 17:41	

LABORATORY CONTROL SAMPLE: 2058768

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.001	0.0010	103	85-115	

MATRIX SPIKE SAMPLE: 2058770

Parameter	Units	30394637001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	ND	0.0025	0.0026	105	70-130	

SAMPLE DUPLICATE: 2058769

Parameter	Units	30394637001 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: 2011995
Pace Project No.: 30395560

QC Batch: 426712
QC Batch Method: EPA 624.1 Dec 2016
Analysis Method: EPA 624.1 Dec 2016
Analysis Description: 6241 MSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30395560002

METHOD BLANK: 2062061
Matrix: Water
Associated Lab Samples: 30395560002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	mg/L	ND	0.0010	12/10/20 16:50	
1,1,2,2-Tetrachloroethane	mg/L	ND	0.0010	12/10/20 16:50	
1,1,2-Trichloroethane	mg/L	ND	0.0010	12/10/20 16:50	
1,1-Dichloroethane	mg/L	ND	0.0010	12/10/20 16:50	
1,1-Dichloroethene	mg/L	ND	0.0010	12/10/20 16:50	
1,1-Dichloropropene	mg/L	ND	0.0010	12/10/20 16:50	
1,2-Dichlorobenzene	mg/L	ND	0.0010	12/10/20 16:50	
1,2-Dichloroethane	mg/L	ND	0.0010	12/10/20 16:50	
1,2-Dichloropropane	mg/L	ND	0.0010	12/10/20 16:50	
1,3-Dichlorobenzene	mg/L	ND	0.0010	12/10/20 16:50	
1,4-Dichlorobenzene	mg/L	ND	0.0010	12/10/20 16:50	
2,2-Dichloropropane	mg/L	ND	0.0010	12/10/20 16:50	
2-Butanone (MEK)	mg/L	ND	0.010	12/10/20 16:50	
2-Chloroethylvinyl ether	mg/L	ND	0.0020	12/10/20 16:50	
2-Hexanone	mg/L	ND	0.010	12/10/20 16:50	
4-Methyl-2-pentanone (MIBK)	mg/L	ND	0.010	12/10/20 16:50	
Acetone	mg/L	ND	0.010	12/10/20 16:50	
Acrolein	mg/L	ND	0.0040	12/10/20 16:50	
Acrylonitrile	mg/L	ND	0.0040	12/10/20 16:50	
Benzene	mg/L	ND	0.0010	12/10/20 16:50	
Bromochloromethane	mg/L	ND	0.0010	12/10/20 16:50	
Bromodichloromethane	mg/L	ND	0.0010	12/10/20 16:50	
Bromoform	mg/L	ND	0.0010	12/10/20 16:50	2c
Bromomethane	mg/L	ND	0.0010	12/10/20 16:50	
Carbon disulfide	mg/L	ND	0.0010	12/10/20 16:50	
Carbon tetrachloride	mg/L	ND	0.0010	12/10/20 16:50	
Chlorobenzene	mg/L	ND	0.0010	12/10/20 16:50	
Chloroethane	mg/L	ND	0.0010	12/10/20 16:50	
Chloroform	mg/L	ND	0.0010	12/10/20 16:50	
Chloromethane	mg/L	ND	0.0010	12/10/20 16:50	
cis-1,2-Dichloroethene	mg/L	ND	0.0010	12/10/20 16:50	
cis-1,3-Dichloropropene	mg/L	ND	0.0010	12/10/20 16:50	N2
Dibromochloromethane	mg/L	ND	0.0010	12/10/20 16:50	2c
Ethylbenzene	mg/L	ND	0.0010	12/10/20 16:50	
m&p-Xylene	mg/L	ND	0.0020	12/10/20 16:50	
Methyl-tert-butyl ether	mg/L	ND	0.0010	12/10/20 16:50	
Methylene Chloride	mg/L	ND	0.0010	12/10/20 16:50	
o-Xylene	mg/L	ND	0.0010	12/10/20 16:50	
Styrene	mg/L	ND	0.0010	12/10/20 16:50	
Tetrachloroethene	mg/L	ND	0.0010	12/10/20 16:50	

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QUALITY CONTROL DATA

Project: 2011995
Pace Project No.: 30395560

METHOD BLANK: 2062061 Matrix: Water
Associated Lab Samples: 30395560002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	mg/L	ND	0.0010	12/10/20 16:50	
Total 1,3-Dichloropropene	mg/L	ND	0.0020	12/10/20 16:50	N2
trans-1,2-Dichloroethene	mg/L	ND	0.0010	12/10/20 16:50	
trans-1,3-Dichloropropene	mg/L	ND	0.0010	12/10/20 16:50	N2
Trichloroethene	mg/L	ND	0.0010	12/10/20 16:50	
Trichlorofluoromethane	mg/L	ND	0.0010	12/10/20 16:50	
Vinyl chloride	mg/L	ND	0.0010	12/10/20 16:50	
Xylene (Total)	mg/L	ND	0.0030	12/10/20 16:50	
1,2-Dichloroethane-d4 (S)	%.	113	80-120	12/10/20 16:50	
4-Bromofluorobenzene (S)	%.	100	80-120	12/10/20 16:50	
Dibromofluoromethane (S)	%.	106	80-120	12/10/20 16:50	
Toluene-d8 (S)	%.	96	80-120	12/10/20 16:50	
Preservation pH		2.0	2.0	12/10/20 16:50	

LABORATORY CONTROL SAMPLE: 2062062

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/L	0.02	0.023	115	70-130	
1,1,2,2-Tetrachloroethane	mg/L	0.02	0.021	106	60-140	
1,1,2-Trichloroethane	mg/L	0.02	0.021	106	70-130	
1,1-Dichloroethane	mg/L	0.02	0.020	101	70-130	
1,1-Dichloroethene	mg/L	0.02	0.017	87	50-150	
1,1-Dichloropropene	mg/L	0.02	0.021	103	77-120	
1,2-Dichlorobenzene	mg/L	0.02	0.020	102	65-135	
1,2-Dichloroethane	mg/L	0.02	0.021	103	70-130	
1,2-Dichloropropane	mg/L	0.02	0.021	104	35-165	
1,3-Dichlorobenzene	mg/L	0.02	0.021	105	70-130	
1,4-Dichlorobenzene	mg/L	0.02	0.020	100	65-135	
2,2-Dichloropropane	mg/L	0.02	0.021	104	54-130	
2-Butanone (MEK)	mg/L	0.02	0.019	93	59-128	
2-Chloroethylvinyl ether	mg/L	0.02	0.020	102	10-225	
2-Hexanone	mg/L	0.02	0.021	104	49-145	
4-Methyl-2-pentanone (MIBK)	mg/L	0.02	0.020	102	63-126	
Acetone	mg/L	0.02	0.018	91	37-150	
Acrolein	mg/L	0.02	0.016	82	60-140	
Acrylonitrile	mg/L	0.02	0.019	94	60-140	
Benzene	mg/L	0.02	0.021	103	65-135	
Bromochloromethane	mg/L	0.02	0.020	101	59-137	
Bromodichloromethane	mg/L	0.02	0.024	119	65-135	
Bromoform	mg/L	0.02	0.021	104	70-130	2c
Bromomethane	mg/L	0.02	0.020	102	15-185	
Carbon disulfide	mg/L	0.02	0.018	91	55-123	
Carbon tetrachloride	mg/L	0.02	0.023	114	70-130	
Chlorobenzene	mg/L	0.02	0.021	106	65-135	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2011995
Pace Project No.: 30395560

LABORATORY CONTROL SAMPLE: 2062062

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	mg/L	0.02	0.022	110	40-160	
Chloroform	mg/L	0.02	0.020	102	70-135	
Chloromethane	mg/L	0.02	0.020	102	10-205	
cis-1,2-Dichloroethene	mg/L	0.02	0.018	92	66-120	
cis-1,3-Dichloropropene	mg/L	0.02	0.022	109	25-175	N2
Dibromochloromethane	mg/L	0.02	0.021	106	70-135	2c
Ethylbenzene	mg/L	0.02	0.022	112	60-140	
m&p-Xylene	mg/L	0.04	0.044	110	80-120	
Methyl-tert-butyl ether	mg/L	0.02	0.021	104	74-120	
Methylene Chloride	mg/L	0.02	0.019	97	60-140	
o-Xylene	mg/L	0.02	0.021	106	78-120	
Styrene	mg/L	0.02	0.023	114	79-120	
Tetrachloroethene	mg/L	0.02	0.021	105	70-130	
Toluene	mg/L	0.02	0.021	103	70-130	
Total 1,3-Dichloropropene	mg/L	0.04	0.044	111	73-120	N2
trans-1,2-Dichloroethene	mg/L	0.02	0.020	99	70-130	
trans-1,3-Dichloropropene	mg/L	0.02	0.022	112	50-150	N2
Trichloroethene	mg/L	0.02	0.022	108	65-135	
Trichlorofluoromethane	mg/L	0.02	0.023	113	50-150	
Vinyl chloride	mg/L	0.02	0.022	111	5-195	
Xylene (Total)	mg/L	0.06	0.065	109	80-120	
1,2-Dichloroethane-d4 (S)	%.			104	80-120	
4-Bromofluorobenzene (S)	%.			100	80-120	
Dibromofluoromethane (S)	%.			103	80-120	
Toluene-d8 (S)	%.			99	80-120	
Preservation pH			2.0			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2062298 2062299

Parameter	Units	30395561002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	mg/L	ND	0.02	0.02	0.025	0.025	123	124	52-162	1	36	
1,1,2,2-Tetrachloroethane	mg/L	ND	0.02	0.02	0.020	0.020	101	99	46-157	2	61	
1,1,2-Trichloroethane	mg/L	ND	0.02	0.02	0.021	0.021	104	103	52-150	1	45	
1,1-Dichloroethane	mg/L	ND	0.02	0.02	0.021	0.020	106	102	59-155	4	40	
1,1-Dichloroethene	mg/L	ND	0.02	0.02	0.019	0.019	95	95	10-234	0	32	
1,1-Dichloropropene	mg/L	ND	0.02	0.02	0.022	0.022	109	108	74-122	1	30	
1,2-Dichlorobenzene	mg/L	ND	0.02	0.02	0.021	0.019	103	97	18-190	6	57	
1,2-Dichloroethane	mg/L	ND	0.02	0.02	0.021	0.021	105	103	49-155	2	49	
1,2-Dichloropropane	mg/L	ND	0.02	0.02	0.021	0.021	104	103	10-210	1	55	
1,3-Dichlorobenzene	mg/L	ND	0.02	0.02	0.021	0.020	104	98	59-156	5	43	
1,4-Dichlorobenzene	mg/L	ND	0.02	0.02	0.020	0.019	99	95	18-190	5	57	
2,2-Dichloropropane	mg/L	ND	0.02	0.02	0.022	0.022	110	108	58-125	2	30	
2-Butanone (MEK)	mg/L	ND	0.02	0.02	0.023	0.020	114	101	44-125	12	30	
2-Chloroethylvinyl ether	mg/L	ND	0.02	0.02	ND	.00037J	0	2	10-305		71	ML

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QUALITY CONTROL DATA

Project: 2011995
Pace Project No.: 30395560

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2062298 2062299

Parameter	Units	30395561002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	mg/L	ND	0.02	0.02	0.020	0.017	99	83	49-124	17	30	
4-Methyl-2-pentanone (MIBK)	mg/L	ND	0.02	0.02	0.019	0.018	96	91	60-118	6	30	
Acetone	mg/L	ND	0.02	0.02	0.059	0.043	275	195	11-168	32	30	MH,R1
Acrolein	mg/L	ND	0.02	0.02	0.016	0.016	81	78	40-160	3	60	AC
Acrylonitrile	mg/L	ND	0.02	0.02	0.015	0.016	75	80	40-160	6	60	AC
Benzene	mg/L	ND	0.02	0.02	0.022	0.021	108	107	37-151	1	61	
Bromochloromethane	mg/L	ND	0.02	0.02	0.019	0.020	97	99	72-134	2	30	
Bromodichloromethane	mg/L	ND	0.02	0.02	0.024	0.023	121	116	35-155	4	56	
Bromoform	mg/L	ND	0.02	0.02	0.023	0.022	116	109	45-169	6	42	2c
Bromomethane	mg/L	ND	0.02	0.02	0.021	0.021	103	106	10-242	3	61	
Carbon disulfide	mg/L	ND	0.02	0.02	0.016	0.015	79	76	39-113	4	30	
Carbon tetrachloride	mg/L	ND	0.02	0.02	0.024	0.024	118	122	70-140	3	41	
Chlorobenzene	mg/L	ND	0.02	0.02	0.021	0.020	105	102	37-160	3	53	
Chloroethane	mg/L	ND	0.02	0.02	0.024	0.025	119	123	14-230	3	78	
Chloroform	mg/L	ND	0.02	0.02	0.021	0.021	107	107	51-138	0	54	
Chloromethane	mg/L	ND	0.02	0.02	0.023	0.023	114	115	10-273	1	60	
cis-1,2-Dichloroethene	mg/L	ND	0.02	0.02	0.020	0.020	99	98	50-150	1	30	
cis-1,3-Dichloropropene	mg/L	ND	0.02	0.02	0.022	0.022	108	111	10-227	3	58	N2
Dibromochloromethane	mg/L	ND	0.02	0.02	0.022	0.020	108	101	53-149	7	50	2c
Ethylbenzene	mg/L	ND	0.02	0.02	0.022	0.020	111	102	37-162	9	63	
m&p-Xylene	mg/L	ND	0.04	0.04	0.044	0.043	110	107	65-129	2	30	
Methyl-tert-butyl ether	mg/L	ND	0.02	0.02	0.019	0.018	97	90	65-109	7	30	
Methylene Chloride	mg/L	ND	0.02	0.02	0.021	0.020	103	100	10-221	3	28	
o-Xylene	mg/L	ND	0.02	0.02	0.021	0.020	104	101	65-126	4	30	
Styrene	mg/L	ND	0.02	0.02	0.022	0.022	110	108	69-120	2	30	
Tetrachloroethene	mg/L	ND	0.02	0.02	0.021	0.021	106	105	64-148	1	39	
Toluene	mg/L	ND	0.02	0.02	0.020	0.021	101	103	47-150	1	41	
Total 1,3-Dichloropropene	mg/L	ND	0.04	0.04	0.044	0.043	109	109	61-111	0	30	N2
trans-1,2-Dichloroethene	mg/L	ND	0.02	0.02	0.021	0.020	103	102	54-156	1	45	
trans-1,3-Dichloropropene	mg/L	ND	0.02	0.02	0.022	0.021	110	106	17-183	4	86	N2
Trichloroethene	mg/L	ND	0.02	0.02	0.023	0.022	113	108	70-157	5	48	
Trichlorofluoromethane	mg/L	ND	0.02	0.02	0.026	0.026	130	130	17-181	1	84	
Vinyl chloride	mg/L	ND	0.02	0.02	0.024	0.025	120	126	10-251	5	66	
Xylene (Total)	mg/L	ND	0.06	0.06	0.065	0.063	108	105	65-128	3	30	
1,2-Dichloroethane-d4 (S)	%.						105	108	80-120			
4-Bromofluorobenzene (S)	%.						101	100	80-120			
Dibromofluoromethane (S)	%.						107	108	80-120			
Toluene-d8 (S)	%.						97	97	80-120			
Preservation pH		2.0			2.0	2.0				0		

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QUALITY CONTROL DATA

Project: 2011995
Pace Project No.: 30395560

QC Batch: 426293
QC Batch Method: EPA 608.3 Dec 2016
Analysis Method: EPA 608.3 Dec 2016
Analysis Description: 6083 GCS PCB RV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30395560001

METHOD BLANK: 2060392 Matrix: Water
Associated Lab Samples: 30395560001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	mg/L	ND	0.00025	12/11/20 15:10	1c
PCB-1221 (Aroclor 1221)	mg/L	ND	0.00025	12/11/20 15:10	
PCB-1232 (Aroclor 1232)	mg/L	ND	0.00025	12/11/20 15:10	
PCB-1242 (Aroclor 1242)	mg/L	ND	0.00025	12/11/20 15:10	
PCB-1248 (Aroclor 1248)	mg/L	ND	0.00025	12/11/20 15:10	
PCB-1254 (Aroclor 1254)	mg/L	ND	0.00025	12/11/20 15:10	
PCB-1260 (Aroclor 1260)	mg/L	ND	0.00025	12/11/20 15:10	1c
Decachlorobiphenyl (S)	%.	83	10-146	12/11/20 15:10	
Tetrachloro-m-xylene (S)	%.	87	16-117	12/11/20 15:10	

LABORATORY CONTROL SAMPLE: 2060393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	mg/L	0.0025	0.0022	87	61-103	1c
PCB-1260 (Aroclor 1260)	mg/L	0.0025	0.0022	86	37-130	1c
Decachlorobiphenyl (S)	%.			72	10-146	
Tetrachloro-m-xylene (S)	%.			88	16-117	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2060394 2060395

Parameter	Units	30395943002 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)	mg/L	ND	0.0027	0.0024	0.0020	0.0018	75	75	50-140	12	36	1c
PCB-1260 (Aroclor 1260)	mg/L	ND	0.0027	0.0024	0.0021	0.0018	76	76	8-140	12	38	1c
Decachlorobiphenyl (S)	%.						80	80	10-146			
Tetrachloro-m-xylene (S)	%.						76	79	16-117			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2011995
Pace Project No.: 30395560

QC Batch: 426291
QC Batch Method: EPA 608.3 Dec 2016
Analysis Method: EPA 608.3 Dec 2016
Analysis Description: 608.3 GCS Pesticide RV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30395560001

METHOD BLANK: 2060384
Matrix: Water
Associated Lab Samples: 30395560001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	mg/L	ND	0.000050	12/29/20 15:41	
4,4'-DDE	mg/L	ND	0.000050	12/29/20 15:41	
4,4'-DDT	mg/L	ND	0.000050	12/29/20 15:41	
Aldrin	mg/L	ND	0.000025	12/29/20 15:41	
alpha-BHC	mg/L	ND	0.000025	12/29/20 15:41	
beta-BHC	mg/L	ND	0.000025	12/29/20 15:41	
Chlordane (Technical)	mg/L	ND	0.00025	12/29/20 15:41	
delta-BHC	mg/L	ND	0.000025	12/29/20 15:41	
Dieldrin	mg/L	ND	0.000050	12/29/20 15:41	
Endosulfan I	mg/L	ND	0.000025	12/29/20 15:41	
Endosulfan II	mg/L	ND	0.000050	12/29/20 15:41	
Endosulfan sulfate	mg/L	ND	0.000050	12/29/20 15:41	
Endrin	mg/L	ND	0.000050	12/29/20 15:41	CL
Endrin aldehyde	mg/L	ND	0.000050	12/29/20 15:41	
gamma-BHC (Lindane)	mg/L	ND	0.000025	12/29/20 15:41	
Heptachlor	mg/L	ND	0.000025	12/29/20 15:41	
Heptachlor epoxide	mg/L	ND	0.000025	12/29/20 15:41	
Toxaphene	mg/L	ND	0.00050	12/29/20 15:41	
Decachlorobiphenyl (S)	%.	69	10-113	12/29/20 15:41	
Tetrachloro-m-xylene (S)	%.	71	21-100	12/29/20 15:41	

LABORATORY CONTROL SAMPLE: 2060385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	mg/L	0.0004	0.00028	70	48-130	
4,4'-DDE	mg/L	0.0004	0.00026	64	54-130	
4,4'-DDT	mg/L	0.0004	0.00031	79	46-137	
Aldrin	mg/L	0.0002	0.00014	71	54-130	
alpha-BHC	mg/L	0.0002	0.00012	62	49-130	
beta-BHC	mg/L	0.0002	0.00013	65	39-130	
delta-BHC	mg/L	0.0002	0.00014	69	51-130	
Dieldrin	mg/L	0.0004	0.00026	65	58-130	
Endosulfan I	mg/L	0.0002	0.00013	63	57-141	
Endosulfan II	mg/L	0.0004	0.00027	68	22-171	
Endosulfan sulfate	mg/L	0.0004	0.00027	69	38-132	
Endrin	mg/L	0.0004	0.00025	63	51-130	CL
Endrin aldehyde	mg/L	0.0004	0.00028	71	54-117	
gamma-BHC (Lindane)	mg/L	0.0002	0.00013	63	43-130	
Heptachlor	mg/L	0.0002	0.00014	68	43-130	

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QUALITY CONTROL DATA

Project: 2011995
Pace Project No.: 30395560

LABORATORY CONTROL SAMPLE: 2060385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Heptachlor epoxide	mg/L	0.0002	0.00014	69	57-132	
Decachlorobiphenyl (S)	%.			70	10-113	
Tetrachloro-m-xylene (S)	%.			63	21-100	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2060386 2060387

Parameter	Units	30395943001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4,4'-DDD	mg/L	ND	0.00039	0.00039	0.00032	0.00031	80	76	31-141	4	39	
4,4'-DDE	mg/L	ND	0.00039	0.00039	0.00029	0.00027	75	69	30-145	8	35	
4,4'-DDT	mg/L	ND	0.00039	0.00039	0.00034	0.00032	81	77	25-160	4	42	
Aldrin	mg/L	ND	0.00019	0.00019	0.00017	0.00015	83	71	42-140	15	35	
alpha-BHC	mg/L	ND	0.00019	0.00019	0.00012	0.000097	52	39	37-140	22	36	
beta-BHC	mg/L	ND	0.00019	0.00019	0.00013	0.000097	62	44	17-147	30	44	
delta-BHC	mg/L	ND	0.00019	0.00019	0.00014	0.00013	68	62	19-140	9	52	
Dieldrin	mg/L	0.00011	0.00039	0.00039	0.00041	0.00040	78	73	36-146	5	49	
Endosulfan I	mg/L	0.000035	0.00019	0.00019	0.00023	0.00021	103	92	45-153	9	28	
Endosulfan II	mg/L	ND	0.00039	0.00039	0.00026	0.00025	68	65	10-202	5	53	
Endosulfan sulfate	mg/L	ND	0.00039	0.00039	0.00028	0.00026	68	63	26-144	7	38	
Endrin	mg/L	ND	0.00039	0.00039	0.00026	0.00024	66	63	30-147	5	48	CL
Endrin aldehyde	mg/L	ND	0.00039	0.00039	0.00023	0.00022	51	49	13-139	4	25	
gamma-BHC (Lindane)	mg/L	0.000031	0.00019	0.00019	0.00015	0.00014	64	54	32-140	12	39	
Heptachlor	mg/L	ND	0.00019	0.00019	0.00013	0.00011	64	56	34-140	13	43	
Heptachlor epoxide	mg/L	ND	0.00019	0.00019	0.00015	0.00013	72	64	37-142	11	26	
Decachlorobiphenyl (S)	%.						71	66	10-113			
Tetrachloro-m-xylene (S)	%.						87	82	21-100			

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QUALITY CONTROL DATA

Project: 2011995
Pace Project No.: 30395560

QC Batch: 426289
QC Batch Method: EPA 625.1 Dec 2016
Analysis Method: EPA 625.1 Dec 2016
Analysis Description: 625.1 MSSV RV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30395560001

METHOD BLANK: 2060376
Matrix: Water
Associated Lab Samples: 30395560001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Nitrophenol	mg/L	ND	0.0010	12/09/20 16:34	
4,6-Dinitro-2-methylphenol	mg/L	ND	0.0025	12/09/20 16:34	
4-Nitrophenol	mg/L	ND	0.0010	12/09/20 16:34	
Acenaphthene	mg/L	ND	0.0010	12/09/20 16:34	
Anthracene	mg/L	ND	0.0010	12/09/20 16:34	
bis(2-Ethylhexyl)phthalate	mg/L	ND	0.0025	12/09/20 16:34	IS
Di-n-butylphthalate	mg/L	ND	0.0010	12/09/20 16:34	
Diethylphthalate	mg/L	ND	0.0010	12/09/20 16:34	
Dimethylphthalate	mg/L	ND	0.0010	12/09/20 16:34	
Fluoranthene	mg/L	ND	0.0010	12/09/20 16:34	
Fluorene	mg/L	ND	0.0010	12/09/20 16:34	
Hexachloro-1,3-butadiene	mg/L	ND	0.0010	12/09/20 16:34	
Hexachlorobenzene	mg/L	ND	0.0010	12/09/20 16:34	
Hexachloroethane	mg/L	ND	0.0010	12/09/20 16:34	
Nitrobenzene	mg/L	ND	0.0010	12/09/20 16:34	
Phenanthrene	mg/L	ND	0.0010	12/09/20 16:34	
Pyrene	mg/L	ND	0.0010	12/09/20 16:34	IS
2,4,6-Tribromophenol (S)	%.	89	24-131	12/09/20 16:34	
2-Fluorobiphenyl (S)	%.	79	14-113	12/09/20 16:34	
2-Fluorophenol (S)	%.	61	10-66	12/09/20 16:34	
Nitrobenzene-d5 (S)	%.	88	15-104	12/09/20 16:34	
Phenol-d6 (S)	%.	41	10-48	12/09/20 16:34	
Terphenyl-d14 (S)	%.	107	26-159	12/09/20 16:34	IS

LABORATORY CONTROL SAMPLE: 2060377

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Nitrophenol	mg/L	0.01	0.011	115	45-167	
4,6-Dinitro-2-methylphenol	mg/L	0.01	0.0092	92	53-130	
4-Nitrophenol	mg/L	0.01	0.0064	64	13-129	
Acenaphthene	mg/L	0.01	0.0091	91	60-132	
Anthracene	mg/L	0.01	0.0097	97	43-120	
bis(2-Ethylhexyl)phthalate	mg/L	0.01	0.012	122	29-137	
Di-n-butylphthalate	mg/L	0.01	0.012	118	8-120	
Diethylphthalate	mg/L	0.01	0.010	104	10-120	
Dimethylphthalate	mg/L	0.01	0.0099	99	10-120	
Fluoranthene	mg/L	0.01	0.0099	99	43-121	
Fluorene	mg/L	0.01	0.0095	95	70-120	
Hexachloro-1,3-butadiene	mg/L	0.01	0.0091	91	38-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2011995
Pace Project No.: 30395560

LABORATORY CONTROL SAMPLE: 2060377

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachlorobenzene	mg/L	0.01	0.0087	87	8-142	
Hexachloroethane	mg/L	0.01	0.0086	86	55-120	
Nitrobenzene	mg/L	0.01	0.0095	95	54-158	
Phenanthrene	mg/L	0.01	0.0090	90	65-120	
Pyrene	mg/L	0.01	0.011	112	70-120	
2,4,6-Tribromophenol (S)	%.			106	24-131	
2-Fluorobiphenyl (S)	%.			83	14-113	
2-Fluorophenol (S)	%.			59	10-66	
Nitrobenzene-d5 (S)	%.			100	15-104	
Phenol-d6 (S)	%.			42	10-48	
Terphenyl-d14 (S)	%.			106	26-159	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2060378 2060379

Parameter	Units	30395483004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Nitrophenol	mg/L	ND	0.0095	0.0097	0.0087	0.0090	91	92	29-182	3	55	
4,6-Dinitro-2-methylphenol	mg/L	ND	0.0095	0.0097	0.0072	0.0080	76	82	10-181	10	203	
4-Nitrophenol	mg/L	ND	0.0095	0.0097	0.0054	0.0055	57	57	10-132	2	131	
Acenaphthene	mg/L	ND	0.0095	0.0097	0.0069	0.0066	73	68	47-145	4	48	
Anthracene	mg/L	ND	0.0095	0.0097	0.0078	0.0080	82	82	27-133	2	66	
bis(2-Ethylhexyl)phthalate	mg/L	ND	0.0095	0.0097	0.012	0.012	111	114	8-158	4	82	
Di-n-butylphthalate	mg/L	ND	0.0095	0.0097	0.011	0.011	110	114	1-120	6	47	
Diethylphthalate	mg/L	ND	0.0095	0.0097	0.0083	0.0082	85	83	10-120	1	100	
Dimethylphthalate	mg/L	3.3 ug/L	0.0095	0.0097	0.011	0.011	80	75	10-120	2	183	
Fluoranthene	mg/L	ND	0.0095	0.0097	0.0085	0.0089	89	91	26-137	5	66	
Fluorene	mg/L	ND	0.0095	0.0097	0.0073	0.0073	77	75	59-121	1	38	
Hexachloro-1,3-butadiene	mg/L	ND	0.0095	0.0097	0.0063	0.0065	67	67	24-120	2	62	
Hexachlorobenzene	mg/L	ND	0.0095	0.0097	0.0069	0.0070	73	72	10-152	1	55	
Hexachloroethane	mg/L	ND	0.0095	0.0097	0.0062	0.0066	66	68	40-120	5	52	
Nitrobenzene	mg/L	ND	0.0095	0.0097	0.0071	0.0074	74	77	35-180	5	62	
Phenanthrene	mg/L	ND	0.0095	0.0097	0.0072	0.0074	76	76	54-120	2	39	
Pyrene	mg/L	ND	0.0095	0.0097	0.0095	0.0099	100	102	52-120	4	49	
2,4,6-Tribromophenol (S)	%.						89	90	24-131			
2-Fluorobiphenyl (S)	%.						65	61	14-113			
2-Fluorophenol (S)	%.						46	46	10-66			
Nitrobenzene-d5 (S)	%.						74	80	15-104			
Phenol-d6 (S)	%.						31	31	10-48			
Terphenyl-d14 (S)	%.						95	101	26-159			

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QUALITY CONTROL DATA

Project: 2011995
Pace Project No.: 30395560

QC Batch: 426012
QC Batch Method: EPA 420.1
Analysis Method: EPA 420.1
Analysis Description: 420.1 Phenolics
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30395560001

METHOD BLANK: 2058935
Matrix: Water
Associated Lab Samples: 30395560001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	mg/L	ND	0.050	12/07/20 13:55	

LABORATORY CONTROL SAMPLE: 2058936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/L	0.25	0.28	110	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2058937 2058938

Parameter	Units	30395561001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phenolics, Total Recoverable	mg/L	ND	0.25	0.25	0.27	0.27	106	107	85-115	1	20	

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QUALIFIERS

Project: 2011995
Pace Project No.: 30395560

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.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1c	The read back of the low concentration calibration standard for this compound is greater than 30% of the true value. The results may be biased high and should be considered estimated.
2c	The read back of the low concentration calibration standard for this compound is not within 30% of the true value. The results may be biased high and should be considered estimated.
AC	Analysis of acrolein and/or acrylonitrile was performed from a sample that was field preserved to pH < 2, which is less than the pH range of 4-5 specified in the test method and required for NPDES compliance per 40CFR Part 136.
B	Analyte was detected in the associated method blank.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
IS	The internal standard response is below criteria. Results may be biased high.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
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.
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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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2011995
Pace Project No.: 30395560

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30395560001	**2011995-01 MOT Influent**	EPA 608.3 Dec 2016	426293	EPA 608.3 Dec 2016	426527
30395560001	**2011995-01 MOT Influent**	EPA 608.3 Dec 2016	426291	EPA 608.3 Dec 2016	426528
30395560001	**2011995-01 MOT Influent**	EPA 245.1 Rev. 3.0, 1994	425975	EPA 245.1 Rev. 3.0, 1994	426019
30395560001	**2011995-01 MOT Influent**	EPA 625.1 Dec 2016	426289	EPA 625.1 Dec 2016	426482
30395560002	**2011995-02 MOT Influent**	EPA 624.1 Dec 2016	426712		
30395560001	**2011995-01 MOT Influent**	EPA 420.1	426012	EPA 420.1	426052

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WO# : 30395560

30395560

SUBCONTRACT OI

2011995

Sending Laboratory:

Envirocorp
51 Clark Street
Harrington, DE 19952
Phone: 302-398-4313
Fax: 302-398-4312
Email Results to:
rachael@envirocorplabs.com, ashley@envirocorplabs.com,
& erin@envircorplabs.com
Email Invoice to Shelly Bloom:
shelly@envirocorplabs.com

Subcontract Laboratory:

Pace Analytical Services
2829 Reach Rd.
Williamsport, PA 17701
Phone: (724) 850-5600
Fax:

Sample ID: 2011995-01 *Waste Water* *Sampled: 12/02/2020 07:20*
Sample Name: MOT Influent **Sampler ID: Client**
Res. Cl: **Total Cl:** **pH:**

Analysis	Method	Report Due Date	Hold Time Expires	Comments
Sub_Hg	EPA 245.1	12/16/2020	12/30/2020 07:20	
Sub_PCB/Pesticides	EPA 608	12/16/2020	01/01/2021 07:20	-001
Sub_Phenolics	EPA 420.1	12/16/2020	01/01/2021 07:20	
Sub_SVOC	EPA 625	12/16/2020	12/09/2020 07:20	w/ Dioxin Screen

Container(s):

Sample ID: 2011995-02 *Waste Water* *Sampled: 12/02/2020 08:10*
Sample Name: MOT Influent **Sampler ID: Client**
Res. Cl: **Total Cl:** **pH:**

Analysis	Method	Report Due Date	Hold Time Expires	Comments
Sub_VOC	EPA 624	12/16/2020	12/16/2020 08:10	-002

Container(s):

Subcontract Shipping Checklist

Method of Shipment (circle one): FedEx / UPS / Field Service Vehicle / Other

Tracking Number: 1Z 290 103 01 4541 7736

LIMS #(s) match on container(s) and COC(s)	Yes	X	No		NA	
Does the container(s) match the analysis	Yes	X	No		NA	
Containers(s) and COC(s) properly packed	Yes	X	No		NA	
Sample containers on ice or ice pack(s)	Yes	X	No		NA	
Container(s) properly sealed and secure	Yes	X	No		NA	

Sample delivery verified? ☐ Yes

Checked by: RN Date: 12/3/20 Received Date _____ Initials: _____

Released By	Date	Time	Received By	Date	Time
R Neelam	12/3/20	1544	[signature]	12-4-20	11:12

Pace Analytical®

Williamsport Lab Sample Condition Upon Receipt

WO#: 30395560
PM: SLM Due Date: 12/18/20
CLIENT: WP-ENVIROCOR

Client Name: Envirocorp

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

LIMS Login

Tracking #: NA

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

Thermometer Used B **Type of Ice:** Wet Blue None

Cooler Temperature **Observed Temp** 2.9 °C Correction Factor: — °C Final Temp: 2.9 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot# NA	Date and Initials of person examining contents: 12-4-20 TCM
Chain of Custody Present:	✓			1.	
Chain of Custody Filled Out:	✓			2.	
Chain of Custody Relinquished:	✓			3.	
Sampler Name & Signature on COC:		✓		4.	
Sample Labels match COC: -Includes date/time/ID Matrix: WW	✓			5.	
Samples Arrived within Hold Time:	✓			6.	
Short Hold Time Analysis (<72hr remaining):		✓		7.	
Rush Turn Around Time Requested:			✓	8.	
Sufficient Volume:	✓			9.	
Correct Containers Used:	✓			10.	
-Pace Containers Used:	✓				
Containers Intact:	✓			11.	
Orthophosphate field filtered			✓	12.	
Hex Cr Aqueous sample field filtered			✓	13.	
Organic Samples checked for dechlorination:			✓	14.	
Filtered volume received for Dissolved tests			✓	15.	
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix			✓	16.	
All containers meet method preservation requirements.			✓	Initial when completed	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):			✓	17.	
Trip Blank Present:			✓	18.	
Trip Blank Custody Seals Present			✓		
Rad Samples Screened < 0.5 mrem/hr			✓	Initial when completed:	Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

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)

***PM review** is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.