



March 19, 2016

North Carolina Department of Environmental Quality
Division of Waste Management
Superfund Section - Inactive Hazardous Sites Branch
Pre-Regulatory Landfill Unit
1646 Mail Service Center
Raleigh, NC 27699-1646

Attention: Mr. Thomas Slusser, PG

Subject: Task Order 321AW-1: Point-of-Entry System Annual Maintenance
Site ID: NONCD0000321 – Gaston Co. LF (Mt. Holly LF)
Mt Holly, Gaston County, NC
WR Project: 02100001.02

Dear Mr. Slusser:

WithersRavenel, Inc. (WR) appreciates the opportunity to document the annual maintenance of a Point-of-Entry (POE) System installed at WSW-136145, located at 163 Angel Ham Street, Mt. Holly, Gaston County, North Carolina. The POE System was installed in August 2014 as proposed in our *321POE Cost Proposal* submitted on July 9, 2014 in response to the Pre-Regulatory Landfill Unit's (Unit's) ***Request for Proposal – POE System*** dated March 27, 2014, and in general accordance with the current edition of the Inactive Hazardous Sites Program, ***Guidelines for Addressing Pre-Regulatory Landfills & Dumps***, dated December 2013.

System Maintenance

The Unit authorized annual maintenance of the POE System on November 2015. Due to adverse weather and scheduling delays, WR personnel and Carbonair representatives met at the site on January 4, 2016 to begin maintenance of the system. **Figure 1, Water Supply Source Survey Map** illustrates the location of the POE System at WSW-136145. However, upon arrival at the site, we observed that the Manager's Office trailer, formerly located beside the well house, had been moved. WR personnel searched the mobile home park for the Office but could not locate it or a new Office. When asked, one of the park's residents responded that the previous owners had left and the park was possibly under new management/ownership. During our search, we observed a new management sign at the park entrance, so we contacted Unit representatives about the change. Since the Unit had not been notified of the change in ownership, WR and Carbonair personnel left the site to return upon receipt of the new owner's permission.

Upon authorization from the owner (through Unit representatives) WR and Carbonair re-scheduled the maintenance service for the week of January 25, 2016. We again experienced weather and subsequent scheduling delays. When WR contacted Carbonair on February 23, 2016, they indicated that they had performed the maintenance on February 8, 2016 without

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contacting WR. We informed the Unit of the circumstances via email on February 29, 2016 and scheduled a site visit to determine whether the maintenance had been performed or not and, if so, collect influent/effluent samples as instructed.

Sample Analysis

On March 8, 2016, WR personnel returned to the site to observe the system conditions and collect the samples. Although the system appeared to have been properly upgraded and was in good working order, the well house appeared to have been damaged during maintenance. *Carbonair has agreed to return to the site and make necessary repairs to the exterior doors and locking apparatus.*

The influent test port and the effluent test port were opened and the system was purged until approximately 10 gallons of water (five gallons at each port) were collected. The ports were turned off and the purge water was discharged outside the structure. The effluent sample was collected first followed by the influent sample. Samples were transferred to a cooler, maintained on ice (estimated to be approximately 4°C and hand-delivered to a State of North Carolina-certified analytical laboratory, located nearby in Huntersville, NC, for analysis of volatile organic compounds (VOCs) using EPA Test Method 8260B. Sample collection and submittal were performed using standard Chain-of-Custody protocol requesting a standard turnaround time (TAT) schedule.

As shown on **Table 1 Influent/Effluent Sample Analytical Results**, sample results were initially compared to their respective Maximum Contaminant Level (MCL) listed in the USEPA *National Drinking Water Regulations*. Where an MCL was not established, the sample results were compared to their respective *North Carolina Groundwater Quality Standard* (2L Standard). Three target VOCs, 1,1-dichloroethane (DCA), *cis*-1,2-dichloroethene (*cis*-DCE) and tetrachloroethene (PCE), were detected above their respective laboratory method detection limits (MDLs) in the influent sample. The *cis*-DCE and PCE detections were compared to their respective MCLs, but since an MCL has not been established for DCA, those sample results were compared to its respective 2L Standard. All three sample concentrations were determined to be less than the Regulatory Standard with which they were compared. None of the analytes targeted in the referenced EPA Test Method 8260B were detected at concentrations above their respective MDLs in the effluent sample. A copy of Pace's *Report of Laboratory Analysis* is included in **Appendix I**.

Quality Assurance Discussion

This assessment was generally conducted under those Quality Assurance/Quality Control (QA/QC) protocols outlined in Appendix C, Standard Field Protocols of the Inactive Hazardous Sites Program *Guidelines for Addressing Pre-Regulatory Landfills & Dumps*, dated December 2013, as outlined below:

The laboratory reported that all samples submitted under Task Order 321AW-1 were received in acceptable condition and within the appropriate holding times. Samples were processed in accordance with previously-referenced methods. WR observed no reportable QA/QC issues associated with the analytical procedures conducted in association with this Report.

A QA/QC Data Review form placed as a cover sheet upon the laboratory analytical report is included in **Appendix I**.

Certification

This report was prepared in general accordance with Withers & Ravenel's *Task Order 321AW-1 Cost Proposal*, dated November 23, 2015, and in keeping with direction supplied by the Unit through issuance of investigation and reporting guidelines, and communication with the Unit staff members during performance of requested activities. Questions regarding the information in this report and any related conclusions should be directed to the Unit staff. I certify that, to the best of my knowledge after thorough investigation, the information contained in or accompanying this report is true, accurate, and complete.

Sincerely

WithersRavenel

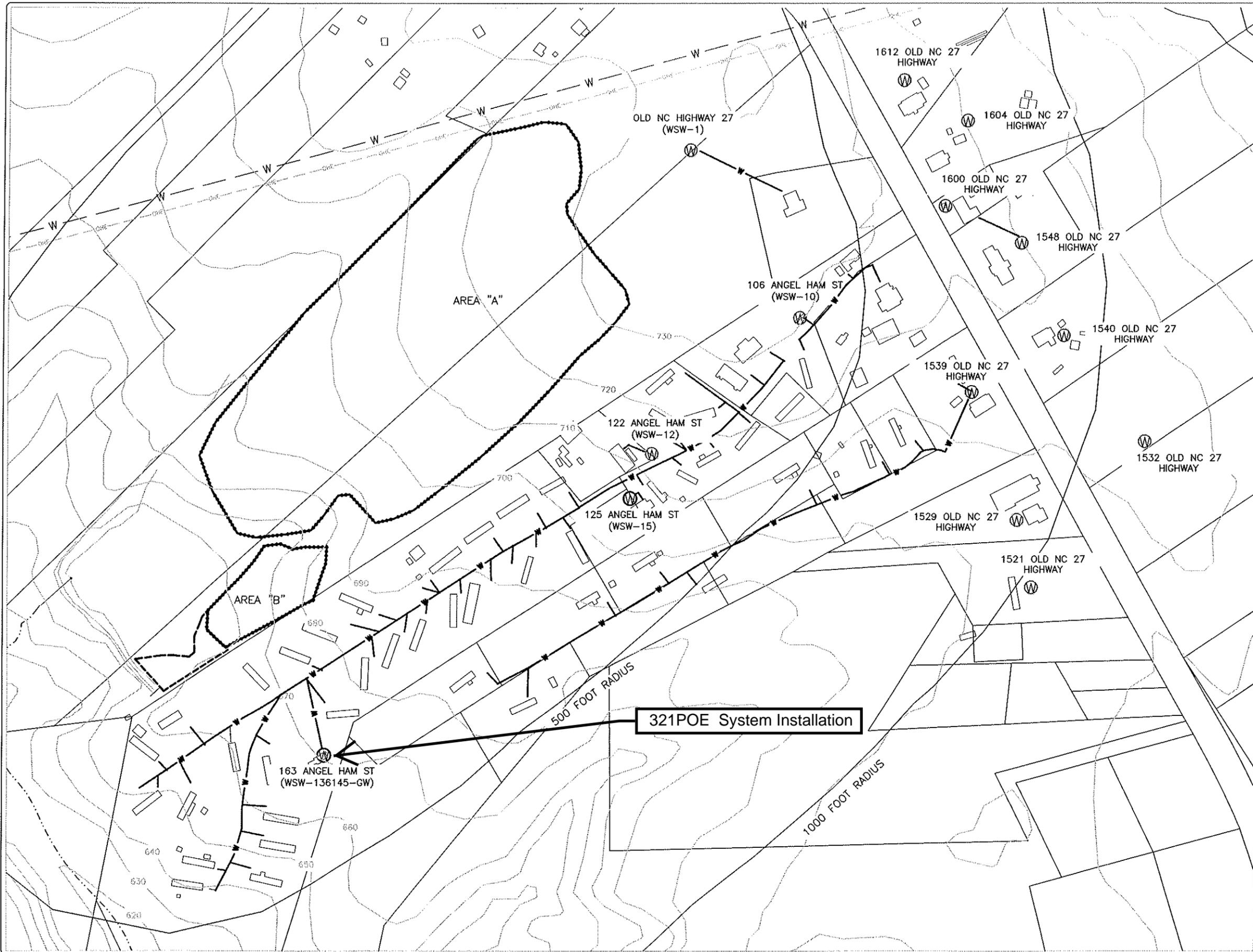


Mark Brown, LG, PG, RSM
Senior Geologist
Senior Project Manager

Attachments

- Figure 1 Water Supply Source Survey
- Table 1 Sample Analytical Results
- Appendix I
Pace Report of Laboratory Analysis

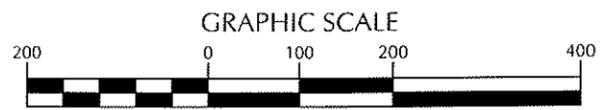
FIGURES



LEGEND

- WATER SUPPLY WELL LOCATION
- WASTE DISPOSAL AREA PER MARCH 2010 GEOPHYSICAL SURVEY
- ADDITIONAL WASTE DISPOSAL AREA OBSERVED DURING TASK ORDER 321DP-5
- DUTCHMAN'S CREEK TRIBUTARY
- UNDERGROUND WATER MAIN
- OVERHEAD HIGH VOLTAGE ELECTRIC LINES
- GROUND SURFACE ELEVATION IN FEET
- TRAILER / RESIDENTIAL STRUCTURE

NOTES:
TRACT BOUNDARIES PROVIDED BY GASTON COUNTY GIS



Revisions			
No.	Description	Date	By

TABLES

TABLE 1
 Influent/Effluent Sample Analytical Results (Detections Only)
 Gaston Co. LF (Mt. Holly LF)
 Mt. Holly, Gaston County, NC
 NCDENR ID # NONC0000321

Sample ID	EPA MCLs	2L Standards	Influent		Effluent					
			Collection Date	Comment	Result (ug/L)	Qual	Result (ug/L)	Qual		
			3/8/2016	Aqueous Sample			3/8/2016	Aqueous Sample		
VOCs by EPA Method 8260B										
1,1-Dichloroethane (DCA)	NE	6	1.8		ND					
cis-1,2-Dichloroethene (cis-DCE)	70	NA	1.9		ND					
Tetrachloroethene (PCE)	5	NA	1.4		ND					
Notes:										
EPA MCLs = US Environmental Protection Agency National Drinking Water Regulations Maximum Contaminant Levels										
2L Standards = North Carolina Groundwater Quality Standards as listed in 15A NCAC 2L										
Sample result exceeding its respective MCL is presented in BOLD .										
Sample result exceeding its respective 2L Standard is <u>underlined</u> .										
ug/L = Micrograms per Liter										
NA = Standard not applicable as MCL Standard established and used.										
ND = Compound Not Detected										
NE = Standard Not Established										
VOCs = Volatile Organic Compounds										

APPENDIX I
Pace Report of Laboratory Analysis

Laboratory Report – QA/QC Data Review

Project Name:	Gaston Co. LF (Mt. Holly LF) NONCD0000321
Project Number:	02100001.04
Laboratory Name:	Pace Analytical Laboratories
Laboratory Report Date(s):	March 14, 2016
Laboratory Sample IDs:	92289130001 (Effluent) 92289130002 (Influent)
Media Subjected to Analyses (preceded by sampling date):	March 8, 2016 [92289130001 (Effluent)] March 8, 2016 [92289130002 (Influent)]

QA/QC Checklist:

1. Samples Analyzed Outside of Holding Time? (y/n) – If yes identify sample.	No.
2. Samples Preserved Per Method Requirements? (y/n) – If no identify sample.	Yes.
3. Samples Received at or Below 4° C? (y/n)	Yes.
4. Did Blanks Contain Analytes Identified in Sample Media (B-Flags)? (y/n) – if yes identify sample.	No.
5. Were matrix – spike duplicates included in analyses? (y/n)	Yes.
6. Did the laboratory report any analyses as “rejected”? (y/n) - If yes identify sample.	No.
7. Did the laboratory provide explanation of any technical issues regarding the analyses of a samples(s) on the laboratory report? (y/n) – If yes summarize.	No.
8. Comments:	Based on our review, the data is suitable for its intended use.

Reviewer:	Mark Brown, LG, PG, RSM
Date of Review:	3/17/2016
Data Suitable For Intended Use:	Yes

March 14, 2016

Mark Brown
Withers & Ravenel
2200 Gateway Centre Blvd
Suite 205
Morrisville, NC 27560

RE: Project: Gaston Co 321POE
Pace Project No.: 92289130

Dear Mark Brown:

Enclosed are the analytical results for sample(s) received by the laboratory on March 08, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,



Taylor Ezell
taylor.ezell@pacelabs.com
Project Manager

Enclosures

cc: Ross Perry, Withers & Ravenel



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Gaston Co 321POE

Pace Project No.: 92289130

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: Gaston Co 321POE
Pace Project No.: 92289130

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92289130001	Effluent	EPA 8260	NB	63	PASI-C
92289130002	Influent	EPA 8260	NB	63	PASI-C

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Gaston Co 321POE
Pace Project No.: 92289130

Sample: Effluent	Lab ID: 92289130001	Collected: 03/08/16 11:00	Received: 03/08/16 11:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		03/09/16 20:39	67-64-1	
Benzene	ND	ug/L	1.0	1		03/09/16 20:39	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/09/16 20:39	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/09/16 20:39	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/09/16 20:39	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/09/16 20:39	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/09/16 20:39	74-83-9	M1
2-Butanone (MEK)	ND	ug/L	5.0	1		03/09/16 20:39	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/09/16 20:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/09/16 20:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/09/16 20:39	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/09/16 20:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/09/16 20:39	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/09/16 20:39	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/09/16 20:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/09/16 20:39	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/09/16 20:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/09/16 20:39	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/09/16 20:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/09/16 20:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/09/16 20:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/09/16 20:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/09/16 20:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/09/16 20:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/09/16 20:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/09/16 20:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/09/16 20:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/09/16 20:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/09/16 20:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/09/16 20:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/09/16 20:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/09/16 20:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/09/16 20:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/09/16 20:39	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/09/16 20:39	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		03/09/16 20:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/09/16 20:39	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/09/16 20:39	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/09/16 20:39	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/09/16 20:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/09/16 20:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/09/16 20:39	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/09/16 20:39	91-20-3	
Styrene	ND	ug/L	1.0	1		03/09/16 20:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/09/16 20:39	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/09/16 20:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		03/09/16 20:39	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Gaston Co 321POE

Pace Project No.: 92289130

Sample: Effluent		Lab ID: 92289130001	Collected: 03/08/16 11:00	Received: 03/08/16 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Toluene	ND	ug/L	1.0	1		03/09/16 20:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/09/16 20:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/09/16 20:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/09/16 20:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/09/16 20:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/09/16 20:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/09/16 20:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/09/16 20:39	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/09/16 20:39	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/09/16 20:39	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/09/16 20:39	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/09/16 20:39	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/09/16 20:39	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		03/09/16 20:39	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		03/09/16 20:39	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		03/09/16 20:39	2037-26-5	

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ANALYTICAL RESULTS

Project: Gaston Co 321POE

Pace Project No.: 92289130

Sample: Influent		Lab ID: 92289130002	Collected: 03/08/16 10:45	Received: 03/08/16 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		03/09/16 20:55	67-64-1	
Benzene	ND	ug/L	1.0	1		03/09/16 20:55	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/09/16 20:55	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/09/16 20:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/09/16 20:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/09/16 20:55	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/09/16 20:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/09/16 20:55	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/09/16 20:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/09/16 20:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/09/16 20:55	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/09/16 20:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/09/16 20:55	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/09/16 20:55	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/09/16 20:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/09/16 20:55	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/09/16 20:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/09/16 20:55	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/09/16 20:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/09/16 20:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/09/16 20:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/09/16 20:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/09/16 20:55	75-71-8	
1,1-Dichloroethane	1.8	ug/L	1.0	1		03/09/16 20:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/09/16 20:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/09/16 20:55	75-35-4	
cis-1,2-Dichloroethene	1.9	ug/L	1.0	1		03/09/16 20:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/09/16 20:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/09/16 20:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/09/16 20:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/09/16 20:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/09/16 20:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/09/16 20:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/09/16 20:55	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/09/16 20:55	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		03/09/16 20:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/09/16 20:55	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/09/16 20:55	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/09/16 20:55	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/09/16 20:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/09/16 20:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/09/16 20:55	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/09/16 20:55	91-20-3	
Styrene	ND	ug/L	1.0	1		03/09/16 20:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/09/16 20:55	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/09/16 20:55	79-34-5	
Tetrachloroethene	1.4	ug/L	1.0	1		03/09/16 20:55	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Gaston Co 321POE

Pace Project No.: 92289130

Sample: Influent		Lab ID: 92289130002	Collected: 03/08/16 10:45	Received: 03/08/16 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Toluene	ND	ug/L	1.0	1		03/09/16 20:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/09/16 20:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/09/16 20:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/09/16 20:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/09/16 20:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/09/16 20:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/09/16 20:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/09/16 20:55	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/09/16 20:55	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/09/16 20:55	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/09/16 20:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/09/16 20:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/09/16 20:55	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		03/09/16 20:55	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/09/16 20:55	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		03/09/16 20:55	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Gaston Co 321POE

Pace Project No.: 92289130

QC Batch: MSV/35882

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV Low Level

Associated Lab Samples: 92289130001, 92289130002

METHOD BLANK: 1682015

Matrix: Water

Associated Lab Samples: 92289130001, 92289130002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/09/16 16:36	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/09/16 16:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/09/16 16:36	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/09/16 16:36	
1,1-Dichloroethane	ug/L	ND	1.0	03/09/16 16:36	
1,1-Dichloroethene	ug/L	ND	1.0	03/09/16 16:36	
1,1-Dichloropropene	ug/L	ND	1.0	03/09/16 16:36	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/09/16 16:36	
1,2,3-Trichloropropane	ug/L	ND	1.0	03/09/16 16:36	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/09/16 16:36	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	03/09/16 16:36	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/09/16 16:36	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/09/16 16:36	
1,2-Dichloroethane	ug/L	ND	1.0	03/09/16 16:36	
1,2-Dichloropropane	ug/L	ND	1.0	03/09/16 16:36	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/09/16 16:36	
1,3-Dichloropropane	ug/L	ND	1.0	03/09/16 16:36	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/09/16 16:36	
2,2-Dichloropropane	ug/L	ND	1.0	03/09/16 16:36	
2-Butanone (MEK)	ug/L	ND	5.0	03/09/16 16:36	
2-Chlorotoluene	ug/L	ND	1.0	03/09/16 16:36	
2-Hexanone	ug/L	ND	5.0	03/09/16 16:36	
4-Chlorotoluene	ug/L	ND	1.0	03/09/16 16:36	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	03/09/16 16:36	
Acetone	ug/L	ND	25.0	03/09/16 16:36	
Benzene	ug/L	ND	1.0	03/09/16 16:36	
Bromobenzene	ug/L	ND	1.0	03/09/16 16:36	
Bromochloromethane	ug/L	ND	1.0	03/09/16 16:36	
Bromodichloromethane	ug/L	ND	1.0	03/09/16 16:36	
Bromoform	ug/L	ND	1.0	03/09/16 16:36	
Bromomethane	ug/L	ND	2.0	03/09/16 16:36	
Carbon tetrachloride	ug/L	ND	1.0	03/09/16 16:36	
Chlorobenzene	ug/L	ND	1.0	03/09/16 16:36	
Chloroethane	ug/L	ND	1.0	03/09/16 16:36	
Chloroform	ug/L	ND	1.0	03/09/16 16:36	
Chloromethane	ug/L	ND	1.0	03/09/16 16:36	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/09/16 16:36	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/09/16 16:36	
Dibromochloromethane	ug/L	ND	1.0	03/09/16 16:36	
Dibromomethane	ug/L	ND	1.0	03/09/16 16:36	
Dichlorodifluoromethane	ug/L	ND	1.0	03/09/16 16:36	

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QUALITY CONTROL DATA

Project: Gaston Co 321POE
Pace Project No.: 92289130

METHOD BLANK: 1682015 Matrix: Water
Associated Lab Samples: 92289130001, 92289130002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	03/09/16 16:36	
Ethylbenzene	ug/L	ND	1.0	03/09/16 16:36	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	03/09/16 16:36	
m&p-Xylene	ug/L	ND	2.0	03/09/16 16:36	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/09/16 16:36	
Methylene Chloride	ug/L	ND	2.0	03/09/16 16:36	
Naphthalene	ug/L	ND	1.0	03/09/16 16:36	
o-Xylene	ug/L	ND	1.0	03/09/16 16:36	
p-Isopropyltoluene	ug/L	ND	1.0	03/09/16 16:36	
Styrene	ug/L	ND	1.0	03/09/16 16:36	
Tetrachloroethene	ug/L	ND	1.0	03/09/16 16:36	
Toluene	ug/L	ND	1.0	03/09/16 16:36	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/09/16 16:36	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/09/16 16:36	
Trichloroethene	ug/L	ND	1.0	03/09/16 16:36	
Trichlorofluoromethane	ug/L	ND	1.0	03/09/16 16:36	
Vinyl acetate	ug/L	ND	2.0	03/09/16 16:36	
Vinyl chloride	ug/L	ND	1.0	03/09/16 16:36	
Xylene (Total)	ug/L	ND	2.0	03/09/16 16:36	
1,2-Dichloroethane-d4 (S)	%	99	70-130	03/09/16 16:36	
4-Bromofluorobenzene (S)	%	96	70-130	03/09/16 16:36	
Toluene-d8 (S)	%	99	70-130	03/09/16 16:36	

LABORATORY CONTROL SAMPLE: 1682016

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.6	99	70-130	
1,1,1-Trichloroethane	ug/L	50	52.5	105	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.4	99	70-130	
1,1,2-Trichloroethane	ug/L	50	51.0	102	70-130	
1,1-Dichloroethane	ug/L	50	51.7	103	70-130	
1,1-Dichloroethene	ug/L	50	53.8	108	70-132	
1,1-Dichloropropene	ug/L	50	54.1	108	70-130	
1,2,3-Trichlorobenzene	ug/L	50	53.5	107	70-135	
1,2,3-Trichloropropane	ug/L	50	48.5	97	70-130	
1,2,4-Trichlorobenzene	ug/L	50	55.4	111	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	52.4	105	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	53.4	107	70-130	
1,2-Dichlorobenzene	ug/L	50	50.5	101	70-130	
1,2-Dichloroethane	ug/L	50	47.8	96	70-130	
1,2-Dichloropropane	ug/L	50	51.9	104	70-130	
1,3-Dichlorobenzene	ug/L	50	50.9	102	70-130	
1,3-Dichloropropane	ug/L	50	51.1	102	70-130	
1,4-Dichlorobenzene	ug/L	50	51.7	103	70-130	

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QUALITY CONTROL DATA

Project: Gaston Co 321POE

Pace Project No.: 92289130

LABORATORY CONTROL SAMPLE: 1682016

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	54.5	109	58-145	
2-Butanone (MEK)	ug/L	100	96.3	96	70-145	
2-Chlorotoluene	ug/L	50	47.3	95	70-130	
2-Hexanone	ug/L	100	96.3	96	70-144	
4-Chlorotoluene	ug/L	50	49.9	100	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	70-140	
Acetone	ug/L	100	93.2	93	50-175	
Benzene	ug/L	50	52.2	104	70-130	
Bromobenzene	ug/L	50	51.1	102	70-130	
Bromochloromethane	ug/L	50	52.6	105	70-130	
Bromodichloromethane	ug/L	50	50.9	102	70-130	
Bromoform	ug/L	50	44.0	88	70-130	
Bromomethane	ug/L	50	62.4	125	54-130	
Carbon tetrachloride	ug/L	50	53.0	106	70-132	
Chlorobenzene	ug/L	50	49.6	99	70-130	
Chloroethane	ug/L	50	55.6	111	64-134	
Chloroform	ug/L	50	51.4	103	70-130	
Chloromethane	ug/L	50	55.4	111	64-130	
cis-1,2-Dichloroethene	ug/L	50	50.7	101	70-131	
cis-1,3-Dichloropropene	ug/L	50	52.8	106	70-130	
Dibromochloromethane	ug/L	50	51.3	103	70-130	
Dibromomethane	ug/L	50	51.6	103	70-131	
Dichlorodifluoromethane	ug/L	50	48.6	97	56-130	
Diisopropyl ether	ug/L	50	51.7	103	70-130	
Ethylbenzene	ug/L	50	50.1	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	54.2	108	70-130	
m&p-Xylene	ug/L	100	99.0	99	70-130	
Methyl-tert-butyl ether	ug/L	50	52.2	104	70-130	
Methylene Chloride	ug/L	50	50.3	101	63-130	
Naphthalene	ug/L	50	53.1	106	70-138	
o-Xylene	ug/L	50	49.2	98	70-130	
p-Isopropyltoluene	ug/L	50	51.5	103	70-130	
Styrene	ug/L	50	50.3	101	70-130	
Tetrachloroethene	ug/L	50	49.1	98	70-130	
Toluene	ug/L	50	51.1	102	70-130	
trans-1,2-Dichloroethene	ug/L	50	53.7	107	70-130	
trans-1,3-Dichloropropene	ug/L	50	52.7	105	70-132	
Trichloroethene	ug/L	50	52.7	105	70-130	
Trichlorofluoromethane	ug/L	50	55.6	111	62-133	
Vinyl acetate	ug/L	100	94.0	94	66-157	
Vinyl chloride	ug/L	50	56.8	114	50-150	
Xylene (Total)	ug/L	150	148	99	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: Gaston Co 321POE

Pace Project No.: 92289130

MATRIX SPIKE SAMPLE: 1682017		92289130001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	21.2	106	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	23.3	116	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.2	101	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	21.1	106	70-130	
1,1-Dichloroethane	ug/L	ND	20	22.4	112	70-130	
1,1-Dichloroethene	ug/L	ND	20	24.7	123	70-166	
1,1-Dichloropropene	ug/L	ND	20	23.9	119	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	22.7	114	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	18.9	95	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	22.9	114	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	19.9	100	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	22.4	112	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	21.0	105	70-130	
1,2-Dichloroethane	ug/L	ND	20	19.8	98	70-130	
1,2-Dichloropropane	ug/L	ND	20	23.2	116	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	21.6	108	70-130	
1,3-Dichloropropane	ug/L	ND	20	22.1	110	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	22.1	111	70-130	
2,2-Dichloropropane	ug/L	ND	20	22.5	112	70-130	
2-Butanone (MEK)	ug/L	ND	40	33.3	83	70-130	
2-Chlorotoluene	ug/L	ND	20	20.4	102	70-130	
2-Hexanone	ug/L	ND	40	36.6	91	70-130	
4-Chlorotoluene	ug/L	ND	20	22.0	110	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	41.4	103	70-130	
Acetone	ug/L	ND	40	31.3	78	70-130	
Benzene	ug/L	ND	20	23.2	116	70-148	
Bromobenzene	ug/L	ND	20	22.2	111	70-130	
Bromochloromethane	ug/L	ND	20	22.5	113	70-130	
Bromodichloromethane	ug/L	ND	20	22.1	111	70-130	
Bromoform	ug/L	ND	20	18.9	94	70-130	
Bromomethane	ug/L	ND	20	28.4	142	70-130	M1
Carbon tetrachloride	ug/L	ND	20	23.6	118	70-130	
Chlorobenzene	ug/L	ND	20	22.0	110	70-146	
Chloroethane	ug/L	ND	20	25.2	126	70-130	
Chloroform	ug/L	ND	20	22.1	111	70-130	
Chloromethane	ug/L	ND	20	24.1	120	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	22.3	112	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	22.0	110	70-130	
Dibromochloromethane	ug/L	ND	20	21.4	107	70-130	
Dibromomethane	ug/L	ND	20	21.4	107	70-130	
Dichlorodifluoromethane	ug/L	ND	20	21.2	106	70-130	
Diisopropyl ether	ug/L	ND	20	21.5	108	70-130	
Ethylbenzene	ug/L	ND	20	22.1	110	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	23.4	117	70-130	
m&p-Xylene	ug/L	ND	40	42.9	107	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	21.6	108	70-130	
Methylene Chloride	ug/L	ND	20	20.1	101	70-130	

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QUALITY CONTROL DATA

Project: Gaston Co 321POE

Pace Project No.: 92289130

MATRIX SPIKE SAMPLE: 1682017		92289130001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Naphthalene	ug/L	ND	20	21.7	109	70-130	
o-Xylene	ug/L	ND	20	21.3	106	70-130	
p-Isopropyltoluene	ug/L	ND	20	21.5	107	70-130	
Styrene	ug/L	ND	20	21.2	106	70-130	
Tetrachloroethene	ug/L	ND	20	21.8	109	70-130	
Toluene	ug/L	ND	20	22.1	111	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	23.3	116	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	20.9	105	70-130	
Trichloroethene	ug/L	ND	20	22.9	114	69-151	
Trichlorofluoromethane	ug/L	ND	20	25.1	126	70-130	
Vinyl acetate	ug/L	ND	40	34.6	86	70-130	
Vinyl chloride	ug/L	ND	20	24.6	123	70-130	
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1682018

Parameter	Units	92289130002	Dup	RPD	Qualifiers
		Result	Result		
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	1.8	1.8	1	
1,1-Dichloroethene	ug/L	ND	ND		
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Gaston Co 321POE

Pace Project No.: 92289130

SAMPLE DUPLICATE: 1682018

Parameter	Units	92289130002 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	.39J		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	1.9	1.9	3	
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	1.4	1.4	4	
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	.52J		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	100	100	0	
4-Bromofluorobenzene (S)	%	95	95	1	
Toluene-d8 (S)	%	99	98	0	

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QUALIFIERS

Project: Gaston Co 321POE

Pace Project No.: 92289130

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.

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.

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Gaston Co 321POE

Pace Project No.: 92289130

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92289130001	Effluent	EPA 8260	MSV/35882		
92289130002	Influent	EPA 8260	MSV/35882		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CHR-CS-003-rev.18

Document Revised: 18FEB2016
 Page 1 of 2
 Issuing Authority:
 Pace Huntersville Quality Office

Page 2 of 2 for Internal Use ONLY

Sample Condition Upon Receipt

Client Name:

Withers & Rowland

Project #:

WO# : 92289130



92289130

Courier:

Commercial

Fed Ex

Pace

UPS

USPS

Other: _____

Client

Custody Seal Present?

Yes

No

Seals Intact?

Yes

No

Date/Initials Person Examining Contents: *AP 3-8-16*

Packing Material:

Bubble Wrap

Bubble Bags

None

Other: _____

Thermometer:

T1505

Type of Ice:

Wet

Blue

None

Samples on ice, cooling process has begun

Correction Factor: 0.0°C

Cooler Temp Corrected (°C):

4.7

Biological Tissue Frozen?

Yes

No

N/A

Temp should be above freezing to 6°C

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix: <i>WV</i>	
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples checked for dechlorination? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____	

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

Project Manager SCURF Review: _____

FD

Date: *3/9*

Project Manager SRF Review: _____

FD

Date: *3/9*

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)

