

February 07, 2014

Alan Johnson
City Of Danville Water Treatment Plant
279 Park Avenue
Danville, VA 24541

RE: Project: Water Treatment Plant
Pace Project No.: 92188445

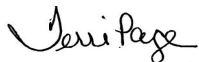
Dear Alan Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory on February 04, 2014. 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,



Terri Page
terri.page@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
 205 East Meadow Road - Suite A
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 Asheville, NC 28804
 (828)254-7176

Pace Analytical Services, Inc.
 9800 Kincey Ave. Suite 100
 Huntersville, NC 28078
 (704)875-9092

CERTIFICATIONS

Project: Water Treatment Plant
 Pace Project No.: 92188445

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
 Alabama Certification #: 41320
 Arizona Certification #: AZ0735
 Colorado Certification: FL NELAC Reciprocity
 Connecticut Certification #: PH-0216
 Delaware Certification: FL NELAC Reciprocity
 Florida Certification #: E83079
 Georgia Certification #: 955
 Guam Certification: FL NELAC Reciprocity
 Hawaii Certification: FL NELAC Reciprocity
 Illinois Certification #: 200068
 Indiana Certification: FL NELAC Reciprocity
 Kansas Certification #: E-10383
 Kentucky Certification #: 90050
 Louisiana Certification #: FL NELAC Reciprocity
 Louisiana Environmental Certificate #: 05007
 Maine Certification #: FL01264
 Maryland Certification: #346
 Massachusetts Certification #: M-FL1264
 Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity
 Montana Certification #: Cert 0074
 Nebraska Certification: NE-OS-28-14
 Nevada Certification: FL NELAC Reciprocity
 New Hampshire Certification #: 2958
 New Jersey Certification #: FL765
 New York Certification #: 11608
 North Carolina Environmental Certificate #: 667
 North Carolina Certification #: 12710
 Pennsylvania Certification #: 68-00547
 Puerto Rico Certification #: FL01264
 South Carolina Certification: #96042001
 Tennessee Certification #: TN02974
 Texas Certification: FL NELAC Reciprocity
 US Virgin Islands Certification: FL NELAC Reciprocity
 Virginia Environmental Certification #: 460165
 Washington Certification #: C955
 West Virginia Certification #: 9962C
 Wisconsin Certification #: 399079670
 Wyoming (EPA Region 8): FL NELAC Reciprocity

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
 Florida/NELAP Certification #: E87648
 Massachusetts Certification #: M-NC030
 North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
 South Carolina Certification #: 99030001
 West Virginia Certification #: 356
 Virginia/VELAP Certification #: 460222

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SAMPLE ANALYTE COUNT

Project: Water Treatment Plant
Pace Project No.: 92188445

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92188445001	RAW INTAKE	EPA 200.7	JMW	15	PASI-A

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ANALYTICAL RESULTS

Project: Water Treatment Plant
 Pace Project No.: 92188445

Sample: RAW INTAKE		Lab ID: 92188445001	Collected: 02/04/14 09:05	Received: 02/04/14 10:37	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Antimony	ND	mg/L	0.0050	1	02/06/14 08:50	02/06/14 14:40	7440-36-0	
Arsenic	ND	mg/L	0.010	1	02/06/14 08:50	02/06/14 14:40	7440-38-2	
Boron	0.13	mg/L	0.050	1	02/06/14 08:50	02/06/14 14:40	7440-42-8	L1
Cadmium	ND	mg/L	0.0010	1	02/06/14 08:50	02/06/14 14:40	7440-43-9	
Calcium	8.0	mg/L	0.10	1	02/06/14 08:50	02/06/14 14:40	7440-70-2	L1
Chromium	ND	mg/L	0.0050	1	02/06/14 08:50	02/06/14 14:40	7440-47-3	
Copper	0.0096	mg/L	0.0050	1	02/06/14 08:50	02/06/14 14:40	7440-50-8	
Iron	1.4	mg/L	0.050	1	02/06/14 08:50	02/06/14 14:40	7439-89-6	
Lead	ND	mg/L	0.0050	1	02/06/14 08:50	02/06/14 14:40	7439-92-1	
Magnesium	2.9	mg/L	0.10	1	02/06/14 08:50	02/06/14 14:40	7439-95-4	L1
Nickel	ND	mg/L	0.0050	1	02/06/14 08:50	02/06/14 14:40	7440-02-0	
Silver	ND	mg/L	0.0050	1	02/06/14 08:50	02/06/14 14:40	7440-22-4	
Sodium	5.9	mg/L	5.0	1	02/06/14 08:50	02/06/14 14:40	7440-23-5	
Zinc	0.029	mg/L	0.010	1	02/06/14 08:50	02/06/14 14:40	7440-66-6	
Selenium	ND	mg/L	0.010	1	02/06/14 08:50	02/06/14 14:40	7782-49-2	

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QUALITY CONTROL DATA

Project: Water Treatment Plant
Pace Project No.: 92188445

QC Batch: MPRP/15193 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET
Associated Lab Samples: 92188445001

METHOD BLANK: 1133910 Matrix: Water
Associated Lab Samples: 92188445001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0050	02/06/14 14:21	
Arsenic	mg/L	ND	0.010	02/06/14 14:21	
Boron	mg/L	ND	0.050	02/06/14 14:21	
Cadmium	mg/L	ND	0.0010	02/06/14 14:21	
Calcium	mg/L	0.44	0.10	02/06/14 14:21	
Chromium	mg/L	ND	0.0050	02/06/14 14:21	
Copper	mg/L	ND	0.0050	02/06/14 14:21	
Iron	mg/L	ND	0.050	02/06/14 14:21	
Lead	mg/L	ND	0.0050	02/06/14 14:21	
Magnesium	mg/L	0.20	0.10	02/06/14 14:21	
Nickel	mg/L	ND	0.0050	02/06/14 14:21	
Selenium	mg/L	ND	0.010	02/06/14 14:21	
Silver	mg/L	ND	0.0050	02/06/14 14:21	
Sodium	mg/L	ND	5.0	02/06/14 14:21	
Zinc	mg/L	ND	0.010	02/06/14 14:21	

LABORATORY CONTROL SAMPLE: 1133911

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	.5	0.51	103	85-115	
Arsenic	mg/L	.5	0.50	99	85-115	
Boron	mg/L	.5	1.4	274	85-115 L0	
Cadmium	mg/L	.5	0.50	100	85-115	
Calcium	mg/L	5	17.6	352	85-115 L0	
Chromium	mg/L	.5	0.48	97	85-115	
Copper	mg/L	.5	0.51	101	85-115	
Iron	mg/L	5	4.8	96	85-115	
Lead	mg/L	.5	0.50	100	85-115	
Magnesium	mg/L	5	10.8	216	85-115 L0	
Nickel	mg/L	.5	0.49	98	85-115	
Selenium	mg/L	.5	0.51	102	85-115	
Silver	mg/L	.25	0.25	100	85-115	
Sodium	mg/L	5	5.7	113	85-115	
Zinc	mg/L	.5	0.49	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1133912 1133913

Parameter	Units	92188445001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.							
Antimony	mg/L	ND	.5	.5	0.50	0.51	100	102	70-130	1	

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QUALITY CONTROL DATA

Project: Water Treatment Plant
 Pace Project No.: 92188445

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1133912		1133913		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92188445001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Arsenic	mg/L	ND	.5	.5	0.49	0.50	97	98	70-130	1		
Boron	mg/L	0.13	.5	.5	0.66	0.66	104	106	70-130	1		
Cadmium	mg/L	ND	.5	.5	0.49	0.49	98	98	70-130	0		
Calcium	mg/L	8.0	5	5	12.7	12.6	95	93	70-130	1		
Chromium	mg/L	ND	.5	.5	0.48	0.49	96	97	70-130	1		
Copper	mg/L	0.0096	.5	.5	0.51	0.52	101	102	70-130	1		
Iron	mg/L	1.4	5	5	6.3	6.3	97	97	70-130	0		
Lead	mg/L	ND	.5	.5	0.49	0.49	97	97	70-130	0		
Magnesium	mg/L	2.9	5	5	7.7	7.8	96	97	70-130	1		
Nickel	mg/L	ND	.5	.5	0.49	0.50	98	98	70-130	1		
Selenium	mg/L	ND	.5	.5	0.49	0.50	98	98	70-130	1		
Silver	mg/L	ND	.25	.25	0.25	0.25	98	98	70-130	0		
Sodium	mg/L	5.9	5	5	12.1	12.4	123	130	70-130	3		
Zinc	mg/L	0.029	.5	.5	0.52	0.51	98	97	70-130	1		

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QUALIFIERS

Project: Water Treatment Plant
Pace Project No.: 92188445

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Water Treatment Plant
Pace Project No.: 92188445

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92188445001	RAW INTAKE	EPA 200.7	MPRP/15193	EPA 200.7	ICP/13790

REPORT OF LABORATORY ANALYSIS

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Document Name: **Sample Condition Upon Receipt (SCUR)**

Document Revised: March 13, 2013

Document No.: F-EDN-CS-003-rev.09

Page 1 of 2

Issuing Authorities: Pace Eden Quality Office

Client Name: Donville

Where Received: Huntersville Asheville Eden Raleigh

Courier (circle): Fed Ex UPS USPS Client Commercial Pace Other

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

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used: IR Gun ED007. Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Temp Correction Factor: Add/ Subtract 0.1 C

Corrected Cooler Temp.: 3.3 C Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: C 2/4/14

Temp should be above freezing to 6°C

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 & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>OW/WT</u>	
All containers needing preservation have been checked.	<input checked="" 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.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>C</u>
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: BIG Date: 2/4/14
SRF Review: no Date: 2/4/14

Place label here
OR
Handwrite project number
(if no label available)

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)