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

July 28, 2015

Andrew Potter
Wake County Department of Environmental Services
PO Box 550
Raleigh, NC 27602

RE: Project: WOODLIEF ROAD SAMPLES
Pace Project No.: 92260180

Dear Andrew Potter:
Enclosed are the analytical results for sample(s) received by the laboratory on July 23, 2015. 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

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CERTIFICATIONS

Project: WOODLIEF ROAD SAMPLES
Pace Project No.: 92260180

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
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
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
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
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE ANALYTE COUNT

Project: WOODLIEF ROAD SAMPLES
Pace Project No.: 92260180

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92260180001	**I012884**	EPA 524.2	JLR	47	PASI-O
92260180002	**I012936**	EPA 524.2	JLR	47	PASI-O
92260180003	**TRIP BLANK**	EPA 524.2	JLR	47	PASI-O

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ANALYTICAL RESULTS

Project: WOODLIEF ROAD SAMPLES
Pace Project No.: 92260180

Sample: I012884 **Lab ID: 92260180001** Collected: 07/23/15 13:45 Received: 07/23/15 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		07/25/15 11:21	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		07/25/15 11:21	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		07/25/15 11:21	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		07/25/15 11:21	79-00-5	
1,1-Dichloroethane	ND	ug/L	0.50	1		07/25/15 11:21	75-34-3	
1,1-Dichloroethene	ND	ug/L	0.50	1		07/25/15 11:21	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		07/25/15 11:21	96-18-4	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		07/25/15 11:21	106-93-4	N2
1,2-Dichlorobenzene	ND	ug/L	0.50	1		07/25/15 11:21	95-50-1	
1,2-Dichloroethane	ND	ug/L	0.50	1		07/25/15 11:21	107-06-2	
1,2-Dichloropropane	ND	ug/L	0.50	1		07/25/15 11:21	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		07/25/15 11:21	106-46-7	
2-Butanone (MEK)	ND	ug/L	4.0	1		07/25/15 11:21	78-93-3	N2
2-Hexanone	**0.0**	ug/L		1		07/25/15 11:21	591-78-6	N,N2
4-Methyl-2-pentanone (MIBK)	**0.0**	ug/L		1		07/25/15 11:21	108-10-1	N,N2
Acetone	ND	ug/L	5.0	1		07/25/15 11:21	67-64-1	
Acrylonitrile	**0.0**	ug/L		1		07/25/15 11:21	107-13-1	N,N2
Benzene	ND	ug/L	0.50	1		07/25/15 11:21	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		07/25/15 11:21	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/25/15 11:21	75-25-2	
Bromomethane	ND	ug/L	0.50	1		07/25/15 11:21	74-83-9	
Carbon tetrachloride	ND	ug/L	0.50	1		07/25/15 11:21	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		07/25/15 11:21	108-90-7	
Chloroethane	ND	ug/L	0.50	1		07/25/15 11:21	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/25/15 11:21	67-66-3	
Chloromethane	ND	ug/L	0.50	1		07/25/15 11:21	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		07/25/15 11:21	124-48-1	
Dibromomethane	ND	ug/L	0.50	1		07/25/15 11:21	74-95-3	
Ethylbenzene	ND	ug/L	0.50	1		07/25/15 11:21	100-41-4	
Isopropyl ether	**0.0**	ug/L		1		07/25/15 11:21		N,N2
Methyl-tert-butyl ether	ND	ug/L	0.50	1		07/25/15 11:21	1634-04-4	
Methylene Chloride	ND	ug/L	0.50	1		07/25/15 11:21	75-09-2	
Styrene	ND	ug/L	0.50	1		07/25/15 11:21	100-42-5	
Tetrachloroethene	ND	ug/L	0.50	1		07/25/15 11:21	127-18-4	
Tetrahydrofuran	**0.0**	ug/L		1		07/25/15 11:21	109-99-9	N,N2
Toluene	ND	ug/L	0.50	1		07/25/15 11:21	108-88-3	
Trichloroethene	**17.9**	ug/L	0.50	1		07/25/15 11:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	0.50	1		07/25/15 11:21	75-69-4	
Vinyl chloride	ND	ug/L	0.50	1		07/25/15 11:21	75-01-4	
Xylene (Total)	ND	ug/L	0.50	1		07/25/15 11:21	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		07/25/15 11:21	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		07/25/15 11:21	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		07/25/15 11:21	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		07/25/15 11:21	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		07/25/15 11:21	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		07/25/15 11:21	2037-26-5	

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ANALYTICAL RESULTS

Project: WOODLIEF ROAD SAMPLES
Pace Project No.: 92260180

Sample: I012884 **Lab ID: 92260180001** Collected: 07/23/15 13:45 Received: 07/23/15 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2							
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		07/25/15 11:21	17060-07-0	

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ANALYTICAL RESULTS

Project: WOODLIEF ROAD SAMPLES
Pace Project No.: 92260180

Sample: I012936 **Lab ID: 92260180002** Collected: 07/23/15 14:10 Received: 07/23/15 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		07/25/15 11:45	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		07/25/15 11:45	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		07/25/15 11:45	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		07/25/15 11:45	79-00-5	
1,1-Dichloroethane	ND	ug/L	0.50	1		07/25/15 11:45	75-34-3	
1,1-Dichloroethene	ND	ug/L	0.50	1		07/25/15 11:45	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		07/25/15 11:45	96-18-4	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		07/25/15 11:45	106-93-4	N2
1,2-Dichlorobenzene	ND	ug/L	0.50	1		07/25/15 11:45	95-50-1	
1,2-Dichloroethane	ND	ug/L	0.50	1		07/25/15 11:45	107-06-2	
1,2-Dichloropropane	ND	ug/L	0.50	1		07/25/15 11:45	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		07/25/15 11:45	106-46-7	
2-Butanone (MEK)	ND	ug/L	4.0	1		07/25/15 11:45	78-93-3	N2
2-Hexanone	**0.0**	ug/L		1		07/25/15 11:45	591-78-6	N,N2
4-Methyl-2-pentanone (MIBK)	**0.0**	ug/L		1		07/25/15 11:45	108-10-1	N,N2
Acetone	ND	ug/L	5.0	1		07/25/15 11:45	67-64-1	
Acrylonitrile	**0.0**	ug/L		1		07/25/15 11:45	107-13-1	N,N2
Benzene	ND	ug/L	0.50	1		07/25/15 11:45	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		07/25/15 11:45	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/25/15 11:45	75-25-2	
Bromomethane	ND	ug/L	0.50	1		07/25/15 11:45	74-83-9	
Carbon tetrachloride	ND	ug/L	0.50	1		07/25/15 11:45	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		07/25/15 11:45	108-90-7	
Chloroethane	ND	ug/L	0.50	1		07/25/15 11:45	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/25/15 11:45	67-66-3	
Chloromethane	ND	ug/L	0.50	1		07/25/15 11:45	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		07/25/15 11:45	124-48-1	
Dibromomethane	ND	ug/L	0.50	1		07/25/15 11:45	74-95-3	
Ethylbenzene	ND	ug/L	0.50	1		07/25/15 11:45	100-41-4	
Isopropyl ether	**0.0**	ug/L		1		07/25/15 11:45		N,N2
Methyl-tert-butyl ether	ND	ug/L	0.50	1		07/25/15 11:45	1634-04-4	
Methylene Chloride	ND	ug/L	0.50	1		07/25/15 11:45	75-09-2	
Styrene	ND	ug/L	0.50	1		07/25/15 11:45	100-42-5	
Tetrachloroethene	ND	ug/L	0.50	1		07/25/15 11:45	127-18-4	
Tetrahydrofuran	**0.0**	ug/L		1		07/25/15 11:45	109-99-9	N,N2
Toluene	ND	ug/L	0.50	1		07/25/15 11:45	108-88-3	
Trichloroethene	ND	ug/L	0.50	1		07/25/15 11:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	0.50	1		07/25/15 11:45	75-69-4	
Vinyl chloride	ND	ug/L	0.50	1		07/25/15 11:45	75-01-4	
Xylene (Total)	ND	ug/L	0.50	1		07/25/15 11:45	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		07/25/15 11:45	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		07/25/15 11:45	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		07/25/15 11:45	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		07/25/15 11:45	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		07/25/15 11:45	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		07/25/15 11:45	2037-26-5	

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ANALYTICAL RESULTS

Project: WOODLIEF ROAD SAMPLES
Pace Project No.: 92260180

Sample: I012936 **Lab ID: 92260180002** Collected: 07/23/15 14:10 Received: 07/23/15 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2							
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		07/25/15 11:45	17060-07-0	

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ANALYTICAL RESULTS

Project: WOODLIEF ROAD SAMPLES
Pace Project No.: 92260180

Sample: TRIP BLANK **Lab ID: 92260180003** Collected: 07/23/15 00:00 Received: 07/23/15 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		07/25/15 12:09	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		07/25/15 12:09	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		07/25/15 12:09	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		07/25/15 12:09	79-00-5	
1,1-Dichloroethane	ND	ug/L	0.50	1		07/25/15 12:09	75-34-3	
1,1-Dichloroethene	ND	ug/L	0.50	1		07/25/15 12:09	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		07/25/15 12:09	96-18-4	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		07/25/15 12:09	106-93-4	N2
1,2-Dichlorobenzene	ND	ug/L	0.50	1		07/25/15 12:09	95-50-1	
1,2-Dichloroethane	ND	ug/L	0.50	1		07/25/15 12:09	107-06-2	
1,2-Dichloropropane	ND	ug/L	0.50	1		07/25/15 12:09	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		07/25/15 12:09	106-46-7	
2-Butanone (MEK)	ND	ug/L	4.0	1		07/25/15 12:09	78-93-3	N2
2-Hexanone	**0.0**	ug/L		1		07/25/15 12:09	591-78-6	N,N2
4-Methyl-2-pentanone (MIBK)	**0.0**	ug/L		1		07/25/15 12:09	108-10-1	N,N2
Acetone	ND	ug/L	5.0	1		07/25/15 12:09	67-64-1	
Acrylonitrile	**0.0**	ug/L		1		07/25/15 12:09	107-13-1	N,N2
Benzene	ND	ug/L	0.50	1		07/25/15 12:09	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		07/25/15 12:09	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/25/15 12:09	75-25-2	
Bromomethane	ND	ug/L	0.50	1		07/25/15 12:09	74-83-9	
Carbon tetrachloride	ND	ug/L	0.50	1		07/25/15 12:09	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		07/25/15 12:09	108-90-7	
Chloroethane	ND	ug/L	0.50	1		07/25/15 12:09	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/25/15 12:09	67-66-3	
Chloromethane	ND	ug/L	0.50	1		07/25/15 12:09	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		07/25/15 12:09	124-48-1	
Dibromomethane	ND	ug/L	0.50	1		07/25/15 12:09	74-95-3	
Ethylbenzene	ND	ug/L	0.50	1		07/25/15 12:09	100-41-4	
Isopropyl ether	**0.0**	ug/L		1		07/25/15 12:09		N,N2
Methyl-tert-butyl ether	ND	ug/L	0.50	1		07/25/15 12:09	1634-04-4	
Methylene Chloride	ND	ug/L	0.50	1		07/25/15 12:09	75-09-2	
Styrene	ND	ug/L	0.50	1		07/25/15 12:09	100-42-5	
Tetrachloroethene	ND	ug/L	0.50	1		07/25/15 12:09	127-18-4	
Tetrahydrofuran	**0.0**	ug/L		1		07/25/15 12:09	109-99-9	N,N2
Toluene	ND	ug/L	0.50	1		07/25/15 12:09	108-88-3	
Trichloroethene	ND	ug/L	0.50	1		07/25/15 12:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	0.50	1		07/25/15 12:09	75-69-4	
Vinyl chloride	ND	ug/L	0.50	1		07/25/15 12:09	75-01-4	
Xylene (Total)	ND	ug/L	0.50	1		07/25/15 12:09	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		07/25/15 12:09	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		07/25/15 12:09	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		07/25/15 12:09	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		07/25/15 12:09	10061-02-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		07/25/15 12:09	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		07/25/15 12:09	2037-26-5	

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ANALYTICAL RESULTS

Project: WOODLIEF ROAD SAMPLES
Pace Project No.: 92260180

Sample: TRIP BLANK **Lab ID: 92260180003** Collected: 07/23/15 00:00 Received: 07/23/15 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2							
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		07/25/15 12:09	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WOODLIEF ROAD SAMPLES
Pace Project No.: 92260180

QC Batch: MSV/15546 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 92260180001, 92260180002, 92260180003

METHOD BLANK: 1281860 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	07/25/15 10:58	
1,1,1-Trichloroethane	ug/L	ND	0.50	07/25/15 10:58	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	07/25/15 10:58	
1,1,2-Trichloroethane	ug/L	ND	0.50	07/25/15 10:58	
1,1-Dichloroethane	ug/L	ND	0.50	07/25/15 10:58	
1,1-Dichloroethene	ug/L	ND	0.50	07/25/15 10:58	
1,2,3-Trichloropropane	ug/L	ND	0.50	07/25/15 10:58	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	07/25/15 10:58	N2
1,2-Dichlorobenzene	ug/L	ND	0.50	07/25/15 10:58	
1,2-Dichloroethane	ug/L	ND	0.50	07/25/15 10:58	
1,2-Dichloropropane	ug/L	ND	0.50	07/25/15 10:58	
1,4-Dichlorobenzene	ug/L	ND	0.50	07/25/15 10:58	
2-Butanone (MEK)	ug/L	ND	4.0	07/25/15 10:58	N2
Acetone	ug/L	ND	5.0	07/25/15 10:58	
Benzene	ug/L	ND	0.50	07/25/15 10:58	
Bromodichloromethane	ug/L	ND	1.0	07/25/15 10:58	
Bromoform	ug/L	ND	1.0	07/25/15 10:58	
Bromomethane	ug/L	ND	0.50	07/25/15 10:58	
Carbon tetrachloride	ug/L	ND	0.50	07/25/15 10:58	
Chlorobenzene	ug/L	ND	0.50	07/25/15 10:58	
Chloroethane	ug/L	ND	0.50	07/25/15 10:58	
Chloroform	ug/L	ND	1.0	07/25/15 10:58	
Chloromethane	ug/L	ND	0.50	07/25/15 10:58	
cis-1,2-Dichloroethene	ug/L	ND	0.50	07/25/15 10:58	
cis-1,3-Dichloropropene	ug/L	ND	0.50	07/25/15 10:58	
Dibromochloromethane	ug/L	ND	1.0	07/25/15 10:58	
Dibromomethane	ug/L	ND	0.50	07/25/15 10:58	
Ethylbenzene	ug/L	ND	0.50	07/25/15 10:58	
Methyl-tert-butyl ether	ug/L	ND	0.50	07/25/15 10:58	
Methylene Chloride	ug/L	ND	0.50	07/25/15 10:58	
Styrene	ug/L	ND	0.50	07/25/15 10:58	
Tetrachloroethene	ug/L	ND	0.50	07/25/15 10:58	
Toluene	ug/L	ND	0.50	07/25/15 10:58	
trans-1,2-Dichloroethene	ug/L	ND	0.50	07/25/15 10:58	
trans-1,3-Dichloropropene	ug/L	ND	0.50	07/25/15 10:58	
Trichloroethene	ug/L	ND	0.50	07/25/15 10:58	
Trichlorofluoromethane	ug/L	ND	0.50	07/25/15 10:58	
Vinyl chloride	ug/L	ND	0.50	07/25/15 10:58	
Xylene (Total)	ug/L	ND	0.50	07/25/15 10:58	
1,2-Dichloroethane-d4 (S)	%	100	70-130	07/25/15 10:58	
4-Bromofluorobenzene (S)	%	95	70-130	07/25/15 10:58	

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

QUALITY CONTROL DATA

Project: WOODLIEF ROAD SAMPLES
Pace Project No.: 92260180

METHOD BLANK: 1281860 Matrix: Water
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene-d8 (S)	%	102	70-130	07/25/15 10:58	

LABORATORY CONTROL SAMPLE & LCSD: 1281861 1281862

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	5	4.3	4.2	85	85	70-130	1	40	
1,1,1-Trichloroethane	ug/L	5	4.6	4.6	91	92	70-130	0	40	
1,1,2,2-Tetrachloroethane	ug/L	5	4.6	4.6	93	92	70-130	1	40	
1,1,2-Trichloroethane	ug/L	5	4.6	4.5	91	91	70-130	0	40	
1,1-Dichloroethane	ug/L	5	4.8	4.9	96	98	70-130	2	40	
1,1-Dichloroethene	ug/L	5	5.3	5.1	106	103	70-130	3	40	
1,2,3-Trichloropropane	ug/L	5	5.0	5.1	100	102	70-130	2	40	
1,2-Dibromoethane (EDB)	ug/L	5	4.4	4.4	89	89	70-130	0	40	N2
1,2-Dichlorobenzene	ug/L	5	4.5	4.5	90	91	70-130	1	40	
1,2-Dichloroethane	ug/L	5	4.5	4.8	91	95	70-130	5	40	
1,2-Dichloropropane	ug/L	5	4.6	4.8	92	96	70-130	5	40	
1,4-Dichlorobenzene	ug/L	5	4.5	4.7	89	93	70-130	4	40	
2-Butanone (MEK)	ug/L	10	9.0	10.5	90	105	70-130	16	40	N2
Acetone	ug/L	10	10.5	10.2	105	102	70-130	3	40	
Benzene	ug/L	5	4.7	4.9	93	97	70-130	4	40	
Bromodichloromethane	ug/L	5	4.6	4.6	91	93	70-130	1	40	
Bromoform	ug/L	5	4.0	4.0	81	81	70-130	0	40	
Bromomethane	ug/L	5	5.9	5.7	117	114	70-130	3	40	
Carbon tetrachloride	ug/L	5	4.3	4.4	86	87	70-130	2	40	
Chlorobenzene	ug/L	5	4.5	4.6	90	92	70-130	3	40	
Chloroethane	ug/L	5	5.0	5.1	100	102	70-130	1	40	
Chloroform	ug/L	5	4.8	5.1	96	101	70-130	5	40	
Chloromethane	ug/L	5	4.4	4.5	87	89	70-130	2	40	
cis-1,2-Dichloroethene	ug/L	5	4.7	4.8	95	96	70-130	2	40	
cis-1,3-Dichloropropene	ug/L	5	4.7	4.7	95	93	70-130	2	40	
Dibromochloromethane	ug/L	5	4.0	4.2	81	84	70-130	4	40	
Dibromomethane	ug/L	5	4.3	4.6	86	93	70-130	7	40	
Ethylbenzene	ug/L	5	4.7	4.7	93	94	70-130	1	40	
Methyl-tert-butyl ether	ug/L	5	4.7	4.7	93	93	70-130	0	40	
Methylene Chloride	ug/L	5	5.0	5.0	100	101	70-130	1	40	
Styrene	ug/L	5	4.3	4.4	86	88	70-130	2	40	
Tetrachloroethene	ug/L	5	4.3	4.4	86	88	70-130	2	40	
Toluene	ug/L	5	4.6	4.4	91	88	70-130	3	40	
trans-1,2-Dichloroethene	ug/L	5	4.8	4.9	97	98	70-130	2	40	
trans-1,3-Dichloropropene	ug/L	5	4.5	4.5	90	90	70-130	0	40	
Trichloroethene	ug/L	5	4.6	4.6	92	92	70-130	0	40	
Trichlorofluoromethane	ug/L	5	4.5	4.8	89	95	70-130	6	40	
Vinyl chloride	ug/L	5	4.7	4.7	94	95	70-130	1	40	
Xylene (Total)	ug/L	15	13.6	13.9	91	92	70-130	2	40	

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

QUALITY CONTROL DATA

Project: WOODLIEF ROAD SAMPLES
Pace Project No.: 92260180

LABORATORY CONTROL SAMPLE & LCSD: 1281861 1281862

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%				98	101	70-130			
4-Bromofluorobenzene (S)	%				96	96	70-130			
Toluene-d8 (S)	%				100	101	70-130			

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QUALIFIERS

Project: WOODLIEF ROAD SAMPLES
Pace Project No.: 92260180

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-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

N	Tentatively identified compound (TIC) based on mass spectral library search
N2	The lab does not hold TNI accreditation for this parameter.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WOODLIEF ROAD SAMPLES
Pace Project No.: 92260180

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92260180001	**I012884**	EPA 524.2	MSV/15546		
92260180002	**I012936**	EPA 524.2	MSV/15546		
92260180003	**TRIP BLANK**	EPA 524.2	MSV/15546		

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Chain of Custody

Report Results to:
Wake County Environmental Services
10 Sunnybrook Rd-Room G80
Raleigh NC

ATTN: Andrew Potter
Phone: 919-796-8771

Bill Results to:
Same

☐ Standard Report Delivery
☑ Rush Report Delivery (w/ surcharge)
Requested Due Date: 7/27/2015

* Picked up

Project Reference: Woodlief Road Samples-7-23-15

Sampled by: Andrew Potter

Sample Description	Composite or Grab	Collected Date/Time	Matrix WW, DW, SW, GW,	No. of Containers	Analysis Requested
					922660180
I012884	Grab	7/23/2015 13:45	DW	3	EPA-524
I012936	Grab	7/23/2015 14:10	DW	3	EPA-524
Trip Blank				1	EPA-524

Relinquished by (signature)	Received by (signature)	Date	Time	
		7-23-15	1505	For Lab Use Only
Relinquished by (signature)	Received by (signature)	Date	Time	Temperature at receipt:
		7.23.15	1530	
Relinquished by (signature)	Received by (signature)	Date	Time	Temp: 2.0 C°

Pace Analytical www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-RAL-CS-001-rev.03	Issuing Authorities: Pace Raleigh Quality Office

*Page 2 of 2 is for Internal Use Only

Client Name: Wake County Environmental

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_____

Circle Thermometer Used: IR Gun SN:122065387 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

IR Gun Back Up SN:122065371

Temp Correction Factor: Add / Subtract 0.6 c

Corrected Cooler Temp.: 2.0 c **Biological Tissue is Frozen:** Yes No (N/A)

Temp should be above freezing to 6°C

Date and Initials of person examining contents/ Preservation check: NAH 7/24/15

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF /SRF Review:: BLG **Date:** 7/24/15

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)

Place label here

OR

Handwrite project number (if no label available)

Pace Analytical www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 2 of 2
	Document No.: F-RAL-CS-001-rev.03	Issuing Authorities: Pace Raleigh Quality Office

Sample Bottle Codes

Item#	BP4U	BP3U	BP2U	BP1U	BP3S	BP3N	BP3Z	BP3C	WGFU	AG1U	AG1H	AG2U	AG1S	AG3S	AG3A	DG9H	VG9T	VG9U	DG9P	VOAK(6vials per kit)	V/GK(3vials per kit)	SP5T	SP2T	Cubitainer	
1																3									
2																3									
3																1									

Client Sample ID(s)	Sample Discrepancy

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation Adjusted	Time Preservation Adjusted	Amount of Preservative added	Lot# of Preservative

Bottle Code Key

125 ml Plastic Unp: BP4U
250 ml Plastic Unp: BP3U
500 ml Plastic Unp: BP2U
1 Liter Plastic Unp: BP1U
250 ml Plastic H2SO4: BP3S
250 ml Plastic HNO3: BP3N
250 ml Plastic ZN Acetate: BP3Z
250 ml Plastic NaOH: BP3C
Wide mouthed glass jar unp: WGFU

1 Liter Amber Unp: AG1U
1 Liter Amber HCl: AG1H
500 ml Amber Unp: AG2U
1 Liter Amber H2SO4: AG1S
250 ml Amber H2SO4: AG3S
250 ml Amber NH4CL: AG3A
40 ml VOA HCl: DG9H
40 ml VOA Na2S2O3: VG9T
40 ml VOA Unp: VG9U

40 ml VOA H2SO4: DG9P
5035 Kit: VOAK
VPH / Gas Kit : V/GK
125 ml Sterile Plastic: SP5T
250 ml Sterile Plastic: SP2T

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 92260180 **Workorder Name:** WOODLIEF ROAD SAMPLES **Owner Received Date:** 7/23/2015 **Results Requested By** 7/27/2015

Report To	Subcontract To
Terri Page Pace Analytical Services, Inc. 9800 Kincey Ave., Suite 100 Huntersville, NC 28078 Phone (704)875-9092 Fax (704)875-9091	Pace Analytical Ormond Beach 8 East Tower Circle Ormond Beach, FL 32174 Phone (386)672-5668

Requested Analysis: XX524.2 VOC'S; TRIP BLANK

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: TCH	XX524.2 VOC'S	TRIP BLANK	LAB USE ONLY
1	I012884	PS	7/23/2015 13:45	92260180001	Water	1	X		
2	I012936	PS	7/23/2015 14:10	92260180002	Water	1	X		
3	TRIP BLANK	PS	7/23/2015 00:00	92260180003	Water	1		X	
4									
5									

Transfers	Released By	Date/Time	Received By	Date/Time
1				
2				
3				

Comments: *Wake county RDL table*
Results requested by 7/27 per customer

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

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

Pace Analytical®
www.pacelabs.com

Ship To:
Pace Analytical Ormond Beach
8 East Tower Circle
Ormond Beach, FL 32174
Phone (386)672-5668

INTER_LABORATORY WORK ORDER # 92260180
(To be completed by sending lab)

Sending Project No:	92260180
Receiving Project No:	
Check Box for Consolidated Invoice:	☐
Date Prepared:	07/24/15
REQUESTED COMPLETION DATE:	**7/27/2015**

Sending Region	IR92-Charlotte	Sending Project Mgr.	Terri Page
Receiving Region	IR35-Ormond Beach	External Client	Wake County Department of Environmental Services
State of Sample Origin	NC	QC Deliverable	STD REPORT

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? Dry Weight Cert. Needed _____

WORK REQUESTED

Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Unit Price	Amount
Trip Blank	DG9H		HCL	1	$0.00	$0.00
524.2 VOC's	DG9H		HCL	2	$132.00	$264.00
					TOTAL	$264.00

Special Requirements: _____

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept. Sending Region (20%)
GC/MS Volatiles	34	$264.00	$211.20	$52.80
	TOTAL	$264.00	$211.20	$52.80

* Custom Revenue Allocation

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Chain of Custody Included: ☐ Yes ☐ No Return Samples to Sending Region: ☐ Yes ☐ No

Matrix: ☐ Soil ☐ Water ☐ Air ☐ Other (identify) _____

CONFIRMATION OF WORK COMPLETED

Date Completed: _____ Receiving Project Manager: _____

DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.
When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.