Soil and Groundwater Delineation Report Forms
for
North Carolina Dry-Cleaning Solvent Cleanup Act Program

Facility Name:	Former One-Hour Martinizing
	111 East Tenth Street, Greenville, NC
DSCA ID No.:	74-0007
Submittal Date:	5/12/2011
Prepared By:	Withers & Ravenel
	1410 Commonwealth Drive, Unit 101 Wilmington, North Carolina 28403

Reporting Period: _____ to _____

Type of Report:

One-Time Event	☑	Quaterly	☐
Semi-Annual	☐	Annual	☐

Table of Contents **GWMR TOC**

DSCA ID No.: 74-0007

Report Summary **GWMR Form 1**

DSCA ID No.: 74-0007

Dates samples were collected:	13-Apr-11
Number of existing monitoring wells:	13
List the sampled monitoring wells:	MW-10 through MW-12
List the sampled water supply wells:	N/A
List surface water samples collected:	N/A
Date analyses were performed:	25-Apr-11
Were any holding times exceeded?	○ Yes ◉ No
Dates monitoring/supply wells were gauged:	13-Apr-11
Does investigation derived waste (IDW) generated during these activities still remain at the site pending disposal?	○ Yes ◉ No
Average depth to groundwater:	11.3
Groundwater flow direction:	Perched: converging to the SW-Unconfined:NE
Was the static groundwater level above the top of the well screen in any wells?	◉ Yes ○ No
If Yes, indicate which wells:	MW-1 through MW-4, MW-1D, MW-9 through MW-11
Is the aquifer:	○ Confined ◉ Unconfined ○ Perched
Were any existing monitoring wells damaged?	○ Yes ◉ No
If Yes, indicate which wells:	
Has the groundwater plume been defined?	○ Yes ◉ No
Any ongoing assessment activities?	○ Yes ◉ No

If Yes, provide details in the space below:

Any ongoing remediation activites? ○ Yes ◉ No

If Yes, provide details in the space below:

Any significant changes in the subsurface conditions? ◉ Yes ○ No

If Yes, provide details in the space below:

W&R installed 3 down-gradient wells (MW-10 through MW-12). MW-10 did not contain chlorinated ethenes above their respective 2L Standards. However, MW-12 contain PCE and TCE , while MW-11 contained PCE only above their respective 2L Standards.

Quality Assurance/Quality Control Procedures **GWMR Form 2**

DSCA ID No.: 74-0007

Describe the standard quality assurance/quality control (QA/QC) procedures which are practiced in order to ensure that the samples are representative of actual conditions and that analytical results are valid.

Prior to purging, each well was opened to allow water levels to equilibrate to atmospheric pressure. After a sufficient equilibration period, water levels were measured with respect to the top of the well casing using a properly decontaminated electronic water level meter. Each well was sampled using low flow sampling techniques using pre-cleaned disposable polyethylene tubing connected to a peristaltic pump. Measurements of groundwater pH, specific conductance, ORP, DO, turbidity and temperature were obtained using calibrated field instruments during the purging process. After field parameters had stabilized over three consecutive recording intervals, groundwater samples were collected using the same tubing that was used to purge the well. The samples were decanted into laboratory prepared containers containing appropriate amounts of hydrochloric acid preservative. The filled and sealed containers were labeled with appropriate sampling information and were then placed into ice-filled coolers along with a laboratory prepared trip blank and shipped under proper chain of custody to the analytical laboratory for analysis.

Describe the specific sampling technicque employed during the collection of all ground water samples.

W&R utilized low flow/low stress sampling procedures described in the EPA Region IV "Environmental Investigations Standard Operating Procedures Quality Assurance Manual" dated November 2001 for the collection of groundwater samples from the monitoring wells. Each monitoring well was purged and sampled using a peristaltic pump attached to new polyethylene tubing. Measurements of groundwater pH, specific conductance, ORP, DO, turbidity and temperature were obtained using calibrated field instruments during the purging process. After field parameters had stabilized over three consecutive recording intervals, groundwater samples were collected using the same tubing that was used to purge the well. The samples were decanted directly into laboratory prepared containers for shipment to the laboratory as described in the preceding paragraph.

Describe the EPA approved methods used to extract and analyze the samples submitted the laboratory. Reference the maximum holding time for each type of analysis performed.

The samples were submitted to Environmental Science Corps, Inc for analysis of volatile organic compounds (VOCs) by EPA SW-846 Method 8260B. The maximum hold time for aqueous samples undergoing this particular analysis is two weeks for samples preserved with hydrochloric acid, as were all of the samples from this site. Method 8260 is used to determine and quantify the presence or absence of VOCs in a variety of matrices. Volatile compounds within a given sample are introduced into a gas chromatograph by the purge-and-trap method (EPA SW-846 Method 5030). "The analytes are introduced directly to a wide-bore capillary column or cryofocussed on a capillary pre-column before being flash evaporated to a narrow-bore capillary for analysis. The column is temperature-programmed to separate the analytes, which are then detected with a mass spectrometer interfaced to the gas chromatograph" (excerpt from section 2.1 of EPA SW-846 Method 8260B).

Results, Conclusions and Recommendations **GWMR Form 3**

DSCA ID No.:

Results

Chemical	Maximum Concentration Detected in Groundwater					
	Most Recent Event			Detected at Site To-date		
	Sampling Date	Sample ID	Concentration [mg/L]	Sampling Date	Sample ID	Concentration [mg/L]
Tetrachloroethylene	4/13/2011	MW-12	0.0086	7/27/2010	MW-2	9.2
Trichloroethylene	4/13/2011	MW-12	0.0533	7/27/2010	MW-2	4
Vinyl Chloride	4/13/2011	NA	NA	7/27/2010	MW-3	0.064
cis-1,2-DCE	4/13/2011	MW-12	0.0029	7/27/2010	MW-1	4.5
trans-1,2-DCE	4/13/2011	NA	NA	12/10/2008	TW-5	0.032

Conclusions

Instructions: Discuss any trends or changes noted in analytical results.

See attached page.

Recommendations

W&R recommends the installation of three additional monitoirng wells at locations hydraulically down-gradient from MW-11 and MW-12. The attached map shows the proposed locations of the additional monitoring wells.

Conclusions

On April 12, 2011, Withers and Ravenel (W&R) supervised the installation of three additional off-site groundwater monitoring wells in an attempt to delineate the lateral extent of PCE and its daughter products in groundwater. Previous assessment work has defined the extent of groundwater contamination to the west, south, and east of the site. However, the extent of contamination to the north and northeast of monitoring wells MW-6 and MW-7 had not been defined. Therefore, three additional wells (MW-10, MW-11, MW-12) were installed at locations hydraulically down-gradient of MW-6 and MW-7.

The three additional off-site monitoring wells were installed by Quantex under W&R supervision. The monitoring well borings were advanced to the top of the Yorktown Formation, which is a regional confining unit that underlies the undifferentiated sedimentary deposits of Quaternary Age that comprise the surficial unconfined aquifer in the area. Copies of the boring logs and well completion reports are attached.

Groundwater samples were collected from well MW-10, -11 and -12 on April 13, 2011 and the samples were submitted for laboratory analysis by EPA Method 8260. The analytical results for the sample from MW-10 did not indicate the presence of PCE or its daughter products at concentrations that exceeded their respective North Carolina Groundwater Standards. However, the analytical results for the samples from wells MW-11 and MW-12 indicated the presence of chlorinated ethenes at concentrations above their respective North Carolina Groundwater Standards. PCE was identified at a concentration of 0.0073 mg/L in the sample from MW-11, and at a concentration of 0.0086 mg/L in the sample from MW-12, both of which exceed the North Carolina Groundwater Standard of 0.0007 mg/L for PCE. Additionally, TCE was identified at a concentration of 0.0533 mg/L in the sample from MW-12, which exceeds the North Carolina Groundwater Standard of 0.003 mg/L for TCE by a relatively small margin. No other chlorinated ethenes were identified at concentrations that exceed their respective North Carolina Groundwater Standards.

Low concentrations of petroleum-related constituents benzene (0.0087 mg/L) and MTBE (0.0013 mg/L) were detected in the sample from MW-10. The presence of these compounds in groundwater at this location does not appear to be related to the former dry cleaning activities at DSCA site #74-0007. These two compounds were not identified in the samples from wells MW-11 and MW-12.

Groundwater levels were measured in all new and existing monitoring wells on April 13, 2011. The data for wells MW-1 through MW-4 and MW-9 suggest the presence of a perched water table of relatively limited extent that occurs under the former dry-cleaners and continues relatively short distances to the south and west. Consistent with previous data, depth to water measurements in monitoring wells MW-1 through MW-4 and MW-9 were relatively shallow, ranging from about three to seven feet

below ground at these well locations. Groundwater levels within the remaining wells to the northwest, north, and northeast of the site range between about 8 and 25 feet below ground. Elevation contours for the perched water table suggest a convergent flow pattern and an overall flow direction to the south-southwest. Elevation contours for the underlying water table indicate a northeast flow direction, which is consistent with more regional topographic inference and the distribution of PCE and its daughter products identified within the surficial aquifer near DSCA site #74-0007.

Due to the presence of PCE and TCE at concentrations above their respective North Carolina Groundwater Standards in the samples from off-site wells MW-11 and MW-12, additional assessment of the extent of these compounds in groundwater to the northeast is warranted.

LEGEND

——·——PARCEL BOUNDARIES

MW-3 TYPE II GROUNDWATER MONITORING WELL LOCATIONS

MW-1D TYPE III GROUNDWATER MONITORING WELL LOCATIONS

(0.0086) PCE CONCENTRATION (IN mg/L)

——0.1——PCE ISOCONCENTRATION LINE

—85.00— REGIONAL SURFICIAL AQUIFER GROUNDWATER CONTOUR LINE

—90.00— PERCHED AQUIFER GROUNDWATER CONTOUR LINE

PMW-10 PROPOSED GROUNDWATER MONITORING WELL LOCATIONS

NOTES

MONITORING WELLS MW-1, MW-2 and MW-3 LOCATIONS & BUILDING CORNERS DETERMINED BY W&R R.L.S.

PW-14
PW-15
PW-13
MAGNETIC
0.0007
MW-11 (0.0073)
MW-10 (<0.001)
MW-12 (0.0086)
0.1
1.0
MW-6 (1.9)
MW-5 (<0.500)
85.00
0.0007
0.1 1.0
1.0
0.1
0.0007
FORMER 1 HOUR MARTINIZING
MW-7 (1.5)
97.00
96.00
95.00
94.00
93.00
MW-3 (0.560)
MW-2 (9.2)
MW-1 (<0.001)
MW-4 (<0.001)
EXISTING DRY-CLEANERS
FORMER DRY-CLEANERS
1.0
0.1
0.0007
MW-8 (<0.001)
MW- (<0.001)

GRAPHIC SCALE
80 0 40 80 160
1 inch = 80 ft.

WITHERS & RAVENEL
ENGINEERS | PLANNERS | SURVEYORS
1410 Commonwealth Drive, Suite 101, North Carolina 28403 www.withersravenel.com
tel: 910-256-9277 fax: 910-256-2584

Revisions

No.	Description	Date	By

DSCA # 74-0007
FORMER ONE HOUR MARTINIZING FACILITY
GREENVILLE, PITT COUNTY, NORTH CAROLINA

PROPOSED ADDITIONAL MONITORING WELLS WITH PCE PLUME AND GROUNDWATER CONTOURS

Drawn By	Scale
CF	1"=80'
Checked By	Date
BJB	1/12/11

Job No.	02060496.42
Sheet No.	X

ATTACHMENT 1
IDW Disposal Receipts

WITHERS & RAVENEL

ENGINEERS | PLANNERS | SURVEYORS

LETTER OF TRANSMITTAL

Investigation Derived Waste Profiles and Hazardous Waste Manifest

Date: April 25, 2011

Hazardous Waste Manifest Tracking Nos. **002472813 FLE**

Submitted To: North Carolina Dry-Cleaning Solvent Cleanup Program
Department of Environment and Natural Resources
Division of Waste Management
Superfund Section
401 Oberlin Road, Suite 150
Raleigh, North Carolina 27605-1350

DSCA Project Manager Name: Jay King

DSCA Site Name and Number: 1-Hour Martinizing – 111 E Tenth Street, Greenville, Pitt County – DSCA #74-0007

Description of Waste Generating Activities: Monitoring well installation, decon & groundwater sampling

DSCA SLAW Number that waste was generated under: 005

Date(s) that waste was generated: April 11 & 12, 2011

Quantities of waste generated:

Solid: ~1,200 **lb (non-haz)**

Liquid: ~1,250 **lb** ~150 **gal**

Date that waste was picked up by waste transporter: April 21, 2010

Destination of the waste: Ecoflo, Inc. 2750 Patterson Street Greensboro for subsequent transport to EI Dupont Waste Treatment Plant in Deepwater NJ (liquid), and Republic Services East Coast Environmental – 1922 Republican Road Aulander, NC 27805 (soil)

Name of W&R Project Manager: Brian Bellis

Brian J. Bellis

Signature

Attachments: IDW Profiles, Hazardous Waste Manifest

ECOFLO, Inc.
2750 Patterson St.
Greensboro, NC 27407
Phone: 336 855-7925
Fax: 336 855-4139

TO BE COMPLETED BY ECOFLO
E-Code No.
Sales Rep.
Sample ☐ Yes ☐ No

MATERIAL CHARACTERIZATION FORM

SECTION A: GENERATOR INFORMATION

1) Name: Petitioner for DSCA Site # 74-0007 SLAW 005
2) Mailing Address: c/o Jay King NCDENR DSCA Program
401 Oberlin Road, Suite 150, Raleigh, NC 27605
3) Facility Address: One-Hour Martinizing
111 East Tenth Street, Greenville, NC Pitt County
4) Technical Contact: Brian Bellis (Withers & Ravenel)
5) Title: Agent for Petitioner
6) Phone: 910-256-9277
7) Fax: 910-256-2584
8) EPA ID #: NCR000146589

SECTION B: WASTE IDENTIFICATION

1) Waste Name: IDW Liquid
2) Process Generating Waste: Sampling of Groundwater and Decon of Drilling Equipment
3) Waste Codes(s): EPA F002, D039
4) Source Code: A69 5) Form Code: B301 State NA 6) SIC Code:

SECTION C: WASTE CHARACTERISTICS

1) Physical State at 70°F: Solid Liquid x Gas Describe: Purge and Decon Water
2) Layers: Multilayered ☐ Bilayered ☐ None [X] 3) Viscosity @ 70°F: Low [x] Med. ☐ High ☐
4) % Total solids: 0 % Describe:
5) BTU/LB: <1000 6) pH: 5-10 7) Color: Brown
8) Flash point (CC): <73 °F ☐ 73-100 °F ☐ 101-140 °F ☐ 141-200 °F ☐ >200 °F [X] Exact:
9) Boiling point: <95 °F ☐ >95 °F [X] 10) Reactive: Yes ☐ No [X] Describe:
11) % Total organic halogens: <0.1 % Cl [X] I ☐ F ☐ Br ☐ (check one or more halogens)
12) Cyanides: 0 ppm 13) PCB: 0 ppm
14) Metals: TCLP ☐ Total ☐ Below Regulatory Limits [X] (check one)

As	0	ppm	Ba	0	ppm	Cd	0	ppm	Cr	0	ppm	Pb	0	ppm	Hg	0	ppm
Se	0	ppm	Ag	0	ppm	Sb	0	ppm	Tl	0	ppm	Ni	0	ppm	Be	0	ppm

SECTION D: CHEMICAL CONSTITUENTS

Constituent	Conc.		Constituent	Conc.	
IDW Liquids	99-100	%			%
Trichloroethene	<0.001	%			%
		%			%
		%			%
		%			%
		%			%
		%			%
	100	%		100	%

Please provide MSDS if available.

SECTION E: SAFETY DATA

1) Hazard Alert Symbol
[1] Health
[0] Flammability
[0] Reactivity

2) Rated Toxicity
[1] Ingestion
[0] Inhalation
[0] Skin Absorption

3) Incompatibilities Describe:

SECTION F: RECERTIFICATION

I certify that this waste stream has not changed.
Signature: Brian J. Bellis
Title: Project Manager, Agent for Petitioner
Date: April 19, 2011

SECTION G: WASTE VOLUME

1) Anticipated volume or container count: One Drum Gal ☐ LBS ☐ Drums [X] Cu. Yd. ☐ (check one)
per One Time ☐ Wk ☐ Month ☐ Quarter [X] Year ☐ Other:
2) Size of container: 5 ☐ 10 ☐ 20 ☐ 30 ☐ 40 ☐ 55 [x] Other:
3) Container Spec:
3) Type of Container:

Open Head Drum	[x]	Closed Head Drum	☐	Lever Lock	☐	Roll-Off	☐
Pallet	☐	Tanker	☐	Tote Tank	☐	Super Sac	☐
Metal Drum	[x]	Poly Lined Metal Drum	☐	Fiber Drum	☐	Poly Lined Fiber Drum	☐
Poly Drum	☐	Wooden Box	☐	Fiber Box	☐	Cylinder	☐

SECTION H: SHIPPING INFORMATION (To be completed by ECOFLO)

PSN: RI: Hazardous Waste Liquid, NOS (Tetrachlorethene)
CLASS/DIV: 9 UN/NA #: NA-3077 PG: III Unspecified Labels:
RQ: 100 pounds PIH: Yes ☐ No [x] Hazard Zone:

SECTION I: CERTIFICATION

I hereby certify that the material described above is non-radioactive and non-etiological/noninfectious. I further certify that all information submitted in this and all attached documents is complete and accurate and that all known or suspected hazards have been disclosed.
In addition, I authorize ECOFLO, Inc. to make corrections to this material characterization form, such that corrections being consistent with the results of sample characterization, and/or regulatory requirements. I understand that a corrected copy will be sent to me.

Authorized Signature: Brian J. Bellis
On behalf of Petitioner for DSCA Site #74-0007
Title: Brian J. Bellis, Project Manager, Agent for Petitioner
Date: April 19, 2011

ECOFLO

ECOFLO, Inc.
2750 Patterson St.
Greensboro, NC 27407
Phone: 336 855-7925
Fax: 336 855-4139

TO BE COMPLETED BY ECOFLO
E-Code No.
Sales Rep.
Sample ☐ Yes ☐ No

MATERIAL CHARACTERIZATION FORM

SECTION A: GENERATOR INFORMATION

1) Name: Petitioner for DSCA Site # 74-0007 SLAW 005
2) Mailing Address: c/o Jay King NCDENR DSCA Program
401 Oberlin Road, Suite 150, Raleigh, NC 27605
3) Facility Address: One-Hour Martinizing
111 East Tenth Street, Greenville, NC Pitt County
4) Technical Contact: Brian Bellis (Withers & Ravenel)
5) Title: Agent for Petitioner
6) Phone: 910-256-9277
7) Fax: 910-256-2584
8) EPA ID #: NCR000146589

SECTION B: WASTE IDENTIFICATION

1) Waste Name: IDW Liquid
2) Process Generating Waste: Drilling of soil borings for well installation
3) Waste Codes(s): EPA
4) Source Code: A69
5) Form Code: B301
State NA
6) SIC Code:

SECTION C: WASTE CHARACTERISTICS

1) Physical State at 70°F: Solid X Liquid Gas Describe: Soil Cuttings
2) Layers: Multilayered ☐ Bilayered ☐ None [X]
3) Viscosity @ 70°F: Low ☐ Med. ☐ High [x]
4) % Total solids: 0 % Describe:
5) BTU/LB: <1000
6) pH: 5-10
7) Color: Brown
8) Flash point (CC): <73 °F ☐ 73-100 °F ☐ 101-140 °F ☐ 141-200 °F ☐ >200 °F [X] Exact:
9) Boiling point: <95 °F ☐ >95 °F [X]
10) Reactive: Yes ☐ No [X] Describe:
11) % Total organic halogens: <0.1 % Cl [X] I ☐ F ☐ Br ☐ (check one or more halogens)
12) Cyanides: 0 ppm
13) PCB: 0 ppm
14) Metals: TCLP ☐ Total ☐ Below Regulatory Limits [X] (check one)

As	0	ppm	Ba	0	ppm	Cd	0	ppm	Cr	0	ppm	Pb	0	ppm	Hg	0	ppm
Se	0	ppm	Ag	0	ppm	Sb	0	ppm	Tl	0	ppm	Ni	0	ppm	Be	0	ppm

SECTION D: CHEMICAL CONSTITUENTS

Constituent	Conc.		Constituent	Conc.	
Soil Cuttings	99-100	%			%
		%			%
		%			%
		%			%
	100	%			%
		%			%

Please provide MSDS if available.

SECTION E: SAFETY DATA

1) Hazard Alert Symbol
[1] Health
[0] Flammability
[0] Reactivity

2) Rated Toxicity
[1] Ingestion
[0] Inhalation
[0] Skin Absorption

3) Incompatibilities Describe:

SECTION F: RECERTIFICATION

I certify that this waste stream has not changed.
Signature: Brian J. Bellis
Title: Project Manager, Agent for Petitioner
Date: April 19, 2011

SECTION G: WASTE VOLUME

1) Anticipated volume or container count: Two Drums Gal ☐ LBS ☐ Drums [X] Cu. Yd. ☐ (check one)
per One Time [x] Wk ☐ Month ☐ Quarter ☐ Year ☐ Other:
2) Size of container: 5 ☐ 10 ☐ 20 ☐ 30 ☐ 40 ☐ 55 [x] Other:
3) Container Spec:
3) Type of Container:

Open Head Drum	[x]	Closed Head Drum	☐	Lever Lock	☐	Roll-Off	☐
Pallet	☐	Tanker	☐	Tote Tank	☐	Super Sac	☐
Metal Drum	[x]	Poly Lined Metal Drum	☐	Fiber Drum	☐	Poly Lined Fiber Drum	☐
Poly Drum	☐	Wooden Box	☐	Fiber Box	☐	Cylinder	☐

SECTION H: SHIPPING INFORMATION (To be completed by ECOFLO)

PSN: RQ: Non-RCRA and Non-DOT Solids NOS (soil cuttings)
CLASS/DIV: UN/NA # PG: Unspecified Labels:
RQ: PIH: Yes ☐ No [x] Hazard Zone:

SECTION I: CERTIFICATION

I hereby certify that the material described above is non-radioactive and non-etiological/noninfectious. I further certify that all information submitted in this and all attached documents is complete and accurate and that all known or suspected hazards have been disclosed.
In addition, I authorize ECOFLO, Inc. to make corrections to this material characterization form, such that corrections being consistent with the results of sample characterization, and/or regulatory requirements. I understand that a corrected copy will be sent to me.

Authorized Signature: Brian J. Bellis
On behalf of Petitioner for DSCA Site #74-0007
Title: Brian J. Bellis, Project Manager, Agent for Petitioner
Date: April 19, 2011

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NCR000146589	1	800-577-4557	002472813 FLE

GENERATOR

5. Generator's Name and Mailing Address
Petitioner for DSCA Site # 74-0007 SLAW 005
Jay King DSCA Program
401 Oberlin Rd Ste 150 Raleigh NC 27605
Generator's Phone: 910 256-9277

Generator's Site Address (if different than mailing address)
111 E. Tenth Street
Greenville, NC 27858

6. Transporter 1 Company Name
Environmental Prod & Svcs of VT, Inc.

U.S. EPA ID Number
NYR000115733

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Ecolfo, Inc.
2750 PATTERSON STREET
GREENSBORO NC 27407
Facility's Phone: (336) 855-7925

U.S. EPA ID Number
NCD980842132

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	RQ, Hazardous waste, liquid, n.o.s. (Tetrachloroethene) 9, NA3082, III	03	DM	150	G	D039	F002	
	NON-RCRA, NON-DOT SOLIDS, N.O.S. (SOIL CUTTINGS)	03	DM	1200	P			
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. ERG# 171 (03 X 55 gal.) APPROVAL# 160ALI-001
2. (03 X 55 gal.) APPROVAL# 160ALI-003
3.
4. Job# 113070 PO# 4109 IK

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] DSCA [illegible] | Signature: [illegible] | Month: 4 | Day: 20 | Year: 11

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] | Signature: [illegible] | Month: 04 | Day: 21 | Year: 11

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems).

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

ATTACHMENT 2
Photograph Documentation

Photo 1. Looking west at MW-10 located at 813 Evans Street

Photo 2. Looking east at MW-10 located at 813 Evans Street

Photo 3. Looking northwest at MW-11 located at 802 Forbes Street

Photo 4. Looking southwest at MW-11 located at 802 Forbes Street

Photo 5. Looking southeast at MW-12 located at 206 East Eighth Street

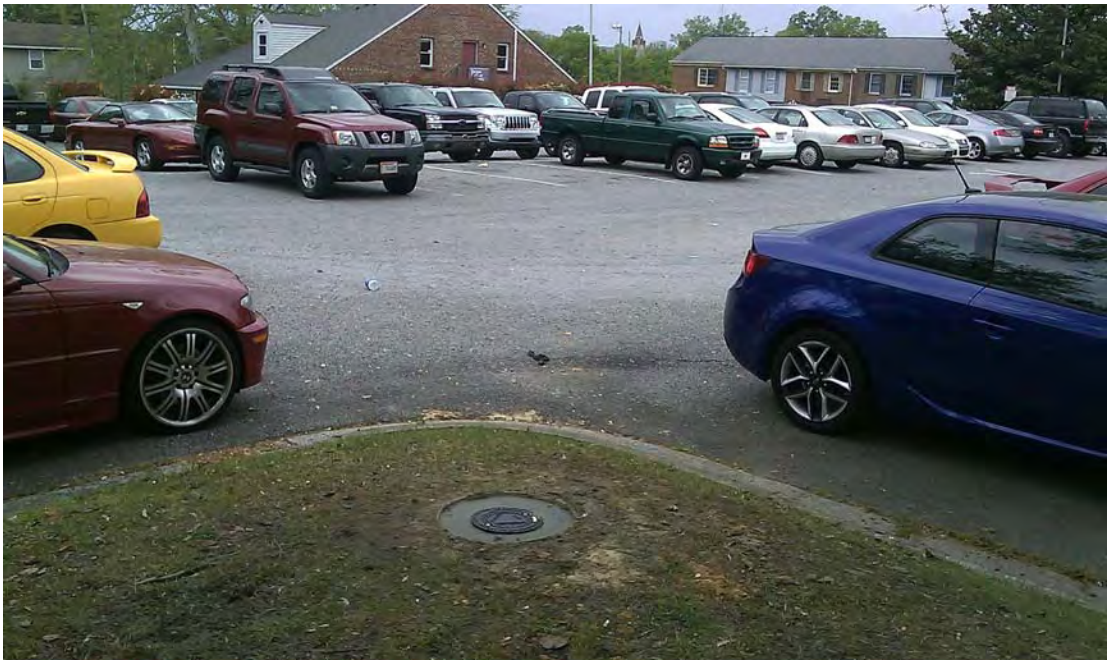

Photo 6. Looking northwest at MW-12 located at 206 East Eighth Street.

ATTACHMENT 2
Analytical Data Tables

Analytical Data Tables
for
North Carolina Dry-Cleaning Solvent Cleanup Act Program

Facility Name:	One Hour Martinizing
	111 East 10th Street, Greenville, NC
DSCA ID No.:	74-0007
Submittal Date:	May 6, 2011
Prepared By:	Withers & Ravenel
	1410 Commonwelath Dr. Suite 101, Wilmington, NC 28403

Table of Contents		ADT TOC
DSCA ID No.: 74-0007		
Table/ Att. No.	**Description**	**Check box if included**
	Tables	
Table 1	Site Chronology	
Table 2	Analytical Data for Soil	
Table 3	Monitoring Well Construction Data	**x**
Table 4	Groundwater Elevation Data	**x**
Table 5	Analytical Data for Groundwater	**x**
Table 6	Analytical Data for Surface Water	
Table 7	Water Well(s) Survey Data	
Table 8	Analytical Data for Water Supply Well(s)	
Table 9	Analytical Data for Natural Attenuation Parameters	
	Attachments	
Att. 1	Site map showing location(s) of soil boring(s).	
Att. 2	Soil contaminant concentration maps showing the concentration at each sampling point.	
Att. 3	Soil isoconcentration maps.	
Att. 4	Site map showing location(s) of monitoring well(s).	**x**
Att. 5	Well completion diagrams and records of construction submitted to state.	**x**
Att. 6	Groundwater gradient map for each sampling event.	**x**
Att. 7	PCE concentration map showing the concentration at each sampling point and isoconcentration map. However, if there are significant plumes for other dry-cleaning contaminants, contaminant concentration maps for each chemical of concern should be included.	**x**
Att. 8	Groundwater concentration trend plots.	
Att. 9	Map showing location(s) of surface water sample(s) (if applicable).	
Att. 10	Surface water concentratin map showing the concentration at each sampling point (if applicable).	
Att. 11	USGS Quad map with plotted water well location(s) within the 1,500 foot and 0.5 mile radii of the site (if applicable).	
Att. 12	Signed laboratory analytical reports including chain-of custody and quality assurance/quality control (QA/QC) documentation (only if not previously submitted).	**x**
Att. 13	Site map showing location(s) of monitoring well(s) for natural attenuation	
Att. 14	Geological Cross Sections	
Att. 15		
Att. 16		
Att. 17		
Att. 18		
Att. 19		
Att. 20		

Note:
1. All maps must include a bar scale, north arrow, site name, DSCA ID No., and date.

Table 3: Monitoring Well Construction Data **ADT 3**

DSCA ID No.: 74-0007

Well ID	Date Installed (mm/dd/yy)	Number of Samples	Well Depth [feet]	Well Diameter [inch]	Screen Interval [feet]	Status (Active/Inactive)
MW-1	1/15/08	2	15	2	5-15	Active
MW-2	1/15/08	2	15	2	5-15	Active
MW-3	1/15/08	2	15	2	5-15	Active
TW-1	12/10/08	1	8	1	3-8	Inactive
TW-2	12/10/08	1	8	1	3-8	Inactive
TW-3	12/10/08	1	8	1	3-8	Inactive
TW-4	12/10/08	1	8	1	3-8	Inactive
TW-5	12/10/08	1	8	1	3-8	Inactive
TW-6	12/10/08	1	8	1	3-8	Inactive
TW-7	12/10/08	1	22	1	17-22	Inactive
TW-8	12/10/08	1	22	1	17-22	Inactive
TW-9	12/10/08	1	18	1	13-18	Inactive
TW-10	12/10/08	1	18	1	13-18	Inactive
TW-11	12/10/08	1	16.5	1	11.5-16.5	Inactive
TW-12	12/11/08	1	20	1	15-20	Inactive
TW-16	12/11/08	1	18	1	13-18	Inactive
TW-17	12/11/08	1	20	1	15-20	Inactive
TW-18	12/11/08	1	20	1	15-20	Inactive
TW-19	12/11/08	1	20	1	15-20	Inactive
TW-D	12/10/08	1	30	1	25-30	Inactive
GP-18	12/10/09	1	24	1	20-24	Inactive
GP-19	12/10/09	1	24	1	20-24	Inactive
GP-20	12/10/09	1	28	1	24-28	Inactive
GP-21	12/10/09	1	28	1	24-28	Inactive
GP-22	12/10/09	1	26	1	22-26	Inactive
GP-23	12/10/09	1	32	1	28-32	Inactive
GP-24	12/10/09	1	32	1	28-32	Inactive
GP-25	12/10/09	1	32	1	28-32	Inactive
GP-26	12/10/09	1	30	1	26-30	Inactive
GP-27	12/10/09	1	20	1	16-20	Inactive
GP-28	12/10/09	1	26	1	22-26	Inactive
GP-29	12/10/09	1	26	1	22-26	Inactive
GP-30	12/10/09	1	24	1	20-24	Inactive
GP-31	12/10/09	1	24	1	20-24	Inactive
GP-32	12/10/09	1	32	1	28-32	Inactive
GP-33	12/10/09	1	26	1	22-26	Inactive
GP-34	12/10/09	1	30	1	26-30	Inactive
MW-1D	7/26/10	1	39	1.5	29-39	Active
MW-4	7/26/10	1	20	1.5	10-20	Active
MW-5	7/26/10	1	20	1.5	10-20	Active
MW-6	7/26/10	1	20	1.5	10-20	Active
MW-7	7/26/10	1	22	1.5	12-22	Active
MW-8	7/26/10	1	24	1.5	14-24	Active
MW-9	7/26/10	1	20	1.5	10-20	Active
MW-10	4/11/11	1	29	2	14-29	Active
MW-11	4/11/11	1	20	2	10-20	Active
MW-12	4/11/11	1	30	2	20-30	Active

Table 4: Groundwater Elevation Data **ADT 4**

DSCA ID No.: 74-0007

Groundwater Sampling Point	Sampling Date (mm/dd/yy)	TOC Elevation [feet]	Depth to Water [feet bgs]	Groundwater Elevation [feet]	Depth to NAPL [feet bgs]	NAPL Thickness [feet]	Corrected* Groundwater Elevation [feet]
MW-1	N/A	100.79	6.17	94.62	N/A	N/A	N/A
	8/19/10	100.79	6.30	94.49	N/A	N/A	N/A
	4/12/11	100.79	3.94	96.85	N/A	N/A	N/A
MW-2	N/A	99.58	3.79	95.79	N/A	N/A	N/A
	8/19/10	99.58	3.71	95.87	N/A	N/A	N/A
	4/12/11	99.58	2.35	97.23	N/A	N/A	N/A
MW-3	N/A	100.00	4.68	95.32	N/A	N/A	N/A
	8/19/10	100.00	4.78	95.22	N/A	N/A	N/A
	4/12/11	100.00	3.10	96.90	N/A	N/A	N/A
TW-1	12/10/08	100.37	4.17	96.2	N/A	N/A	N/A
TW-2	12/10/08	99.97	3.8	96.17	N/A	N/A	N/A
TW-3	12/10/08	100.4	4.05	96.35	N/A	N/A	N/A
TW-4	12/10/08	99.51	3.15	96.36	N/A	N/A	N/A
TW-5	12/10/08	100.24	6.51	93.73	N/A	N/A	N/A
TW-6	12/10/08	N/A	5.99	N/A	N/A	N/A	N/A
TW-7	12/10/08	101.28	18.32	82.96	N/A	N/A	N/A
TW-8	12/10/08	102.36	19.28	83.08	N/A	N/A	N/A
TW-9	12/10/08	101.76	14.66	87.1	N/A	N/A	N/A
TW-10	12/10/08	101.36	17.38	83.98	N/A	N/A	N/A
TW-11	12/10/08	100.25	16.5	83.75	N/A	N/A	N/A
TW-12	12/11/08	99.52	16.58	82.94	N/A	N/A	N/A
TW-16	12/11/08	N/A	N/A	N/A	N/A	N/A	N/A
TW-17	12/11/08	98.35	13.45	84.9	N/A	N/A	N/A
TW-18	12/11/08	98.41	15.16	83.25	N/A	N/A	N/A
TW-19	12/11/08	97.02	11.96	85.06	N/A	N/A	N/A
TW-D	12/10/08	100.74	17.65	83.09	N/A	N/A	N/A
MW-1D	8/19/10	100.99	21.13	79.86	N/A	N/A	N/A
	4/12/11	100.99	20.28	80.71	N/A	N/A	N/A
MW-4	8/19/10	99.05	5.03	94.02	N/A	N/A	N/A
	4/12/11	99.05	5.90	93.15	N/A	N/A	N/A
MW-5	8/19/10	96.47	11.44	85.03	N/A	N/A	N/A
	4/12/11	96.47	10.89	85.58	N/A	N/A	N/A
MW-6	8/19/10	96.69	12.9	83.79	N/A	N/A	N/A
	4/12/11	96.69	13.02	83.67	N/A	N/A	N/A
MW-7	8/19/10	101.70	17.15	84.55	N/A	N/A	N/A
	4/12/11	101.70	17.01	84.69	N/A	N/A	N/A
MW-8	8/19/10	105.81	21.05	84.76	N/A	N/A	N/A
	4/12/11	105.81	20.89	84.92	N/A	N/A	N/A
MW-9	8/19/10	103.05	7.09	95.96	N/A	N/A	N/A
	4/12/11	103.05	6.97	96.08	N/A	N/A	N/A
MW-10	4/12/11	NA	9.98	#VALUE!	N/A	N/A	N/A
MW-11	4/12/11	NA	8.11	#VALUE!	N/A	N/A	N/A
MW-12	4/12/11	NA	24.45	#VALUE!	N/A	N/A	N/A

Table 5: Analytical Data for Groundwater **ADT 5**

DSCA ID No.: 74-0007

Groundwater Sampling Point	Sampling Date (mm/dd/yy)	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethanae	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane (EDC)	Benzene	Benzo(a)pyrene	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethylene	Ethylbenzene	Methyl tert-butyl ether (MTBE)	Naphthalene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes (total)	Bromodichloromethane	n-Butylbenzene	sec-Butylbenzene	Chlorobenzene	1,2 Dichlorobenzene	1,4 Dichlorobenzene	Isopropylbenzene	p-Isopropyltoluene	n-Propylbezene	1,2,4 Trimethylbenzene	1,2,3 Trimethylbenzene	1,3,5 Trimethylbenzene
		[mg/L]																															
TW-1	12/10/08	NA	NA	NA	NA	<0.001	NA	**0.2274**	NA	NA	NA	<0.001	**2.2649**	NA	NA	**0.0082**	**3.6986**	<0.001	**0.0035**	<0.001	**4.7813**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-2	12/10/08	NA	NA	NA	NA	<0.001	NA	**0.0419**	NA	NA	NA	<0.001	**0.045**	NA	NA	<0.0007	**0.0271**	<0.001	<0.001	<0.001	**0.0706**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-3	12/10/08	NA	NA	NA	NA	<0.001	NA	**0.1128**	NA	NA	NA	**0.0012**	**0.065**	NA	NA	<0.0007	**0.0313**	<0.001	<0.001	<0.001	**0.0509**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-4	12/10/08	NA	NA	NA	NA	<0.001	NA	**0.1209**	NA	NA	NA	**0.0014**	**0.055**	NA	NA	<0.0007	**0.014**	<0.001	<0.001	<0.001	**0.0257**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-5	12/10/08	NA	NA	NA	NA	**0.0031**	NA	**0.0108**	NA	NA	NA	**0.9492**	**0.0115**	NA	NA	**2.4214**	**0.0695**	**0.0318**	**0.4391**	**0.3082**	**0.0301**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-6	12/10/08	NA	NA	NA	NA	<0.001	NA	**0.0016**	NA	NA	NA	**0.027**	<0.001	NA	NA	**0.0359**	<0.001	<0.001	**0.0071**	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-7	12/10/08	NA	NA	NA	NA	<0.001	NA	**0.0017**	NA	NA	NA	**0.0086**	**0.002**	NA	NA	**0.6286**	**0.0023**	<0.001	**0.035**	<0.001	**0.0062**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-8	12/10/08	NA	NA	NA	NA	<0.001	NA	**0.0019**	NA	NA	NA	**0.0116**	<0.001	NA	NA	**2.1756**	<0.001	<0.001	**0.1126**	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-9	12/10/08	NA	NA	NA	NA	**0.0066**	NA	**0.507**	NA	NA	NA	**1.3501**	<0.001	NA	NA	**0.7039**	**0.0093**	**0.0299**	**0.1982**	**0.0742**	**0.0053**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-10	12/10/08	NA	NA	NA	NA	**0.0052**	NA	**0.3036**	NA	NA	NA	**1.1537**	<0.001	NA	NA	**1.0822**	**0.0042**	**0.0214**	**0.5312**	**0.0398**	**<0.003**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-11	12/10/08	NA	NA	NA	NA	**0.0041**	NA	**0.2733**	NA	NA	NA	**0.8915**	**0.0011**	NA	NA	**2.1856**	**0.0023**	**0.0076**	**0.3257**	**0.0152**	**0.0036**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-12	12/11/08	NA	NA	NA	NA	<0.001	NA	**0.0028**	NA	NA	NA	**0.0047**	**0.0016**	NA	NA	**0.0755**	**0.0213**	<0.001	**0.0252**	<0.001	**0.005**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-16	12/10/08	NA	NA	NA	NA	<0.001	NA	**0.0078**	NA	NA	NA	**0.0486**	**0.0082**	NA	NA	**0.8486**	**0.0377**	<0.001	**0.1865**	<0.001	**0.019**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-17	12/11/08	NA	NA	NA	NA	<0.001	NA	**2.1396**	NA	NA	NA	**0.3917**	**0.329**	NA	NA	**0.0475**	**0.5773**	<0.001	**0.0371**	<0.001	**1.0882**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-18	12/11/08	NA	NA	NA	NA	<0.001	NA	**0.0027**	NA	NA	NA	**0.0065**	<0.001	NA	NA	**0.1677**	**0.0046**	<0.001	**0.0294**	<0.001	**0.0023**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-19	12/11/08	NA	NA	NA	NA	<0.001	NA	**0.0387**	NA	NA	NA	<0.001	**0.0012**	NA	NA	**0.0037**	**0.0358**	<0.001	**0.0089**	<0.001	**0.0036**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-D	12/10/08	NA	NA	NA	NA	**0.0067**	NA	**0.2875**	NA	NA	NA	**2.9098**	**0.0783**	NA	NA	**3.2875**	**0.0269**	**0.029**	**0.4506**	**0.1528**	**0.0157**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TW-D2	12/10/08	NA	NA	NA	NA	**0.00695**	NA	**0.2845**	NA	NA	NA	**2.9712**	**0.1031**	NA	NA	**3.5858**	**0.028**	**0.0308**	**0.4436**	**0.14965**	**0.0169**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-18(S)	12/10/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	<0.001	<0.001	NA	NA	<0.0007	<0.001	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-18(D)	12/10/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	<0.001	<0.001	NA	NA	<0.0007	<0.001	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-19(S)	12/10/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	<0.001	<0.001	NA	NA	<0.0007	<0.001	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-19(D)	12/10/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	<0.001	<0.001	NA	NA	<0.0007	<0.001	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-20(D)	12/11/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	<0.001	<0.001	NA	NA	<0.0007	<0.001	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-21(D)	12/11/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	<0.001	<0.001	NA	NA	<0.0007	<0.001	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-22(D)	12/11/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	<0.001	<0.001	NA	NA	<0.0007	<0.001	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-23(I)	12/11/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	<0.001	<0.001	NA	NA	<0.0007	<0.001	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-23(D)	12/11/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	<0.001	<0.001	NA	NA	<0.0007	<0.001	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-24(D)	12/10/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	<0.001	<0.001	NA	NA	<0.0007	<0.001	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-25(S)	12/10/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	<0.001	<0.001	NA	NA	<0.0007	<0.001	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-25(D)	12/10/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	<0.001	<0.001	NA	NA	<0.0007	<0.001	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-26	12/10/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	<0.001	<0.001	NA	NA	<0.0007	<0.001	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-27(D)	12/10/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	**0.0025**	<0.001	NA	NA	**0.0495**	<0.001	<0.001	**0.011**	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-28(D)	12/10/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	**0.00043 J**	<0.001	NA	NA	**0.83J**	<0.001	<0.001	**0.00048 J**	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-29(D)	12/10/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	<0.001	<0.001	NA	NA	**0.09**	<0.001	<0.001	**0.0015 J**	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-30(D)	12/11/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	<0.001	<0.001	NA	NA	**0.0116**	**0.00046 J**	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-31	12/10/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	**0.011**	<0.001	NA	NA	**0.27**	<0.001	<0.001	**0.014**	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-32(D)	12/10/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	**0.0079**	<0.001	NA	NA	**0.1**	<0.001	<0.001	**0.0093**	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-33(S)	12/10/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	<0.001	<0.001	NA	NA	<0.0007	<0.001	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-33(D)	12/10/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	<0.001	<0.001	NA	NA	<0.0007	<0.001	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GP-34(D)	12/11/09	NA	NA	NA	NA	<0.001	NA	<0.001	NA	NA	NA	<0.001	<0.001	NA	NA	**0.23**	<0.001	<0.001	**0.012**	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	7/27/10	<0.001	<0.001	<0.001	<0.001	**0.0064**	<0.001	**0.410**	NA	<0.001	<0.005	**4.500**	**0.110**	**0.170**	**0.032**	<0.001	**0.010**	**0.020**	<0.001	<0.001	**0.099**	<0.001	**0.0095**	**0.0082**	**0.002**	**0.0014**	**0.0011**	**0.038**	<0.001	**0.053**	<0.001	<0.001	**0.0024**
MW-1D	7/27/10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	**0.026**	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.001	<0.001	<0.001	<0.003	**0.002**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-2	7/27/10	<0.001	<0.001	<0.001	<0.001	**0.0013**	<0.001	**0.031**	NA	<0.001	<0.005	**1.300**	**0.036**	**0.032**	**0.0086**	**9.2**	**0.028**	**0.0087**	**4.0**	**0.031**	**0.014**	<0.001	**0.0054**	**0.0049**	<0.001	<0.001	<0.001	**0.011**	**0.0014**	**0.018**	**0.0061**	**0.0017**	**0.0029**
MW-3	7/27/10	<0.001	<0.001	<0.001	<0.001	**0.0028**	<0.001	**0.049**	NA	<0.001	<0.005	**2.900**	**0.200**	**0.018**	**0.079**	**0.560**	<0.005	**0.0095**	**0.400**	**0.064**	<0.003	<0.001	**0.013**	**0.013**	<0.001	**0.0012**	<0.001	**0.062**	**0.0055**	**0.150**	**0.0021**	<0.001	**0.013**
MW-4	7/27/10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.032**	NA	<0.001	<0.005	<0.001	**0.010**	**0.014**	<0.005	<0.001	**0.069**	<0.001	<0.001	<0.001	**0.021**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.001**	<0.001	**0.0022**	**0.0063**	**0.0012**	**0.0026**
MW-5	7/27/10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	**3.200**	NA	<0.500	<2.500	**0.780**	**1.000**	<0.500	<2.500	<0.500	**29.000**	<0.500	<0.500	<0.500	**2.500**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	**0.690**	<0.500	<0.500
MW-6	7/27/10	<0.001	<0.001	<0.001	<0.001	**0.0015**	<0.001	**0.013**	NA	<0.001	<0.005	**0.068**	<0.001	**0.0031**	<0.005	**1.900**	<0.001	<0.001	**0.300**	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	7/27/10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0012**	NA	<0.001	<0.005	**0.210**	<0.001	**0.002**	<0.005	**1.500**	<0.001	**0.0019**	**0.240**	**0.002**	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8	7/27/10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-9	7/27/10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-10	4/13/11	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0087**	NA	<0.001	<0.005	<0.001	<0.001	**0.0013**	<0.005	<0.001	<0.001	<0.001	**0.0025**	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-11	4/13/11	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	**0.0073**	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW-12	4/13/11	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.005	**0.0029**	<0.001	<0.001	<0.005	**0.0086**	<0.001	<0.001	**0.0533**	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

ATTACHMENTS

LEGEND

—— · ——PARCEL BOUNDARIES

MW-3 TYPE II GROUNDWATER MONITORING WELL LOCATION

MW-1D TYPE III GROUNDWATER MONITORING WELL LOCATION

NOTES: LOCATIONS OF EXISTING INTERNAL BUILDING WALLS ARE APPROXIMATE.

MONITORING WELLS MW-1, MW-2 and MW-3 LOCATIONS & BUILDING CORNERS DETERMINED BY W&R R.L.S.

MW-11

MW-12

MW-10

MW-6

MW-5

FORMER 1 HOUR MARTINIZING

MW-7

MW-3

MW-2

MW-1D

MW-1

MW-4

EXISTING DRY-CLEANERS

FORMER DRY-CLEANERS

MW-8

MW-9

GRAPHIC SCALE

80 0 40 80 160

1 inch = 80 ft.

WITHERS & RAVENEL
ENGINEERS | PLANNERS | SURVEYORS
1410 Commonwealth Drive, Suite 101, North Carolina 28403 www.withersravenel.com
tel: 910-256-9277 fax: 910-256-2584

Revisions

No.	Description	Date	By

DSCA # 74-0007
FORMER ONE HOUR MARTINIZING FACILITY
GREENVILLE, PITT COUNTY, NORTH CAROLINA

SITE MAP

Drawn By	Scale
CF	1"=80'
Checked By	Date
BJB	8/12/10

Job No. 02060496.42
Sheet No. 4

ATTACHMENT 5
Well Completion Diagrams

WITHERS & RAVENEL
ENGINEERS | PLANNERS | SURVEYORS
111 MacKenan Drive Cary, North Carolina 27511
tel: 919-469-3340 fax: 919-535-4545
www.withersravenel.com

FIELD BORING LOG

BOREHOLE NO.: MW-10

PROJECT INFORMATION

PROJECT NAME:	One Hour Martinizing
DSCA NO.:	074-0007
JOB NO.:	02060496.42
SITE LOCATION:	111 East 10th Street
	Greenville, NC
LOGGED BY:	Chris Fay

DRILLING INFORMATION

DRILLING COMPANY:	Quantex
METHOD OF DRILLING:	Hollow Stem Augers
SAMPLING METHOD:	Macro-core
HOLE DIAMETER:	6.25 in
DATES DRILLED:	4/11/11
TOTAL DEPTH:	29

NORTHING COORD.: 679915.2851 EASTING COORD.: 2483441.4969

DEPTH (FEET)	GRAPHIC	SOIL DESCRIPTION	PID (ppm)	WELL DESCRIPTION	REMARKS
0		CL: Tan orange mottled fine sandy CLAY, moist, high plasticity, wet at 13' BGS			TOTAL WELL DEPTH: 29'
5					SCREEN
					Interval: 14' - 29'
					Opening: 0.010"-slotted
					CASING
					Interval: 0 -14'
					Material: Sch. 40 PVC
					Joints: Threaded
					GROUT INTERVAL: 0 - 10'
10					SAND PACK INTERVAL: 12' - 29'
					SEAL
					Interval: 10' - 12'
					Seal: Bentonite
					Well Completed with Flush-Mount Protective Cover
15		SC: Blue gray clayey fine SAND, well sorted, sub-angular grains, soft, saturated, intermittent sand and clay layers from 14 to15 feet BGS			
20					
25					
30		CL: Blue gray CLAY, soft, moist, low plasticity			

NOTES: Boring Terminated at 30 ft bls

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111 MacKenan Drive Cary, North Carolina 27511
tel: 919-469-3340 fax: 919-535-4545
www.withersravenel.com

FIELD BORING LOG

BOREHOLE NO.: MW-11

PROJECT INFORMATION

PROJECT NAME:	One Hour Martinizing
DSCA NO.:	074-0007
JOB NO.:	02060496.42
SITE LOCATION:	111 East 10th Street
	Greenville, NC
LOGGED BY:	Chris Fay

DRILLING INFORMATION

DRILLING COMPANY:	Quantex
METHOD OF DRILLING:	Hollow Stem Augers
SAMPLING METHOD:	Macro-core
HOLE DIAMETER:	6.25 in
DATES DRILLED:	4/11/11
TOTAL DEPTH:	20

NORTHING COORD.: 679988.9276 EASTING COORD.: 2483574.7069

DEPTH (FEET)	GRAPHIC	SOIL DESCRIPTION	PID (ppm)	WELL DESCRIPTION	REMARKS
0		CH: Tan and orange mottled fine sandy CLAY, dry, firm, high plasticity			TOTAL WELL DEPTH: 20'
5					SCREEN
					Interval: 10' - 20'
					Opening: 0.010"-slotted
					CASING
					Interval: 0 -10'
					Material: Sch. 40 PVC
					Joints: Threaded
					GROUT INTERVAL: 0 - 6'
10					SAND PACK INTERVAL: 8' - 20'
					SEAL
					Interval: 6' - 8'
					Seal: Bentonite
					Well Completed with Flush-Mount Protective Cover
15		SM: Tan silty fine to medium SAND, well sorted, angular grains, soft, saturated			
		CL: Blue gray CLAY, low plasticity, soft , moist			
20					
25					

NOTES: Boring Terminated at 25 ft bls

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www.withersravenel.com

FIELD BORING LOG

BOREHOLE NO.: MW-12

PROJECT INFORMATION

PROJECT NAME:	One Hour Martinizing
DSCA NO.:	074-0007
JOB NO.:	02060496.42
SITE LOCATION:	111 East 10th Street
	Greenville, NC
LOGGED BY:	Chris Fay

DRILLING INFORMATION

DRILLING COMPANY:	Quantex
METHOD OF DRILLING:	Hollow Stem Augers
SAMPLING METHOD:	Macro-core
HOLE DIAMETER:	6.25 in
DATES DRILLED:	4/11/11
TOTAL DEPTH:	30

NORTHING COORD.: 679929.9288 EASTING COORD.: 2483824.3402

DEPTH (FEET)	GRAPHIC	SOIL DESCRIPTION	PID (ppm)	WELL DESCRIPTION	REMARKS
0		SM: Orange clayey fine SAND, dry, well sorted, rounded grains, firm			TOTAL WELL DEPTH: 30'
5		CL: Brown and orange mottled fine sandy CLAY, dry, firm, high plasticity			SCREEN Interval: 20' - 30' Opening: 0.010"-slotted CASING Interval: 0 -20' Material: Sch. 40 PVC Joints: Threaded GROUT INTERVAL: 0 - 16' SAND PACK INTERVAL: 18' - 30' SEAL Interval: 16' - 18' Seal: Bentonite Well Completed with Flush-Mount Protective Cover
10					
15		CH: Grayish brown CLAY, very fine white sand present (<5% of matrix), dry, hard, high plasticity, moist at 19 feet, interbedded rust color coarse sand at 14 feet			
20					
25		SM: Orange and white mottled silty medium SAND, well sorted, angular grains, firm, saturated			
30		CL: Blue gray CLAY, low plasticity, soft , moist			
35					

NOTES: Boring Terminated at 35 ft bls

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3468-A

1. WELL CONTRACTOR:
Stephen W. Keener
Well Contractor (Individual) Name
Quantex, Inc.
Well Contractor Company Name
P.O. Box 41673
Street Address
Raleigh NC 27629
City or Town State Zip Code
(919) 219-9604
Area code Phone number

2. WELL INFORMATION:
WELL CONSTRUCTION PERMIT# WM0701019
OTHER ASSOCIATED PERMIT#(if applicable) NA
SITE WELL ID #(if applicable) MW-12

3. WELL USE (Check One Box) Monitoring ☑ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation ☐ Other ☐ (list use)
DATE DRILLED 4-11-11

4. WELL LOCATION:
206 EAST EIGHTH STREET 27858
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
CITY: Greenville COUNTY Pitt
TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐ Slope ☐ Valley ☑ Flat ☐ Ridge ☐ Other
LATITUDE 36 ° ' " DMS N 35.607566 DD
LONGITUDE 79 ° ' " DMS W 77.372214 DD
Latitude/longitude source: ☑ GPS ☐ Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)
Former 1-Hour Martinizing DSCA 74-0007
Facility Name Facility ID# (if applicable)
100 East Tenth Street
Street Address
Greenville NC 27858
City or Town State Zip Code
Preston Cannon Petitioner for DSCA 74-0007
Contact Name
312 Rutledge Road
Mailing Address
Greenville NC 27858
City or Town State Zip Code
( ) NA
Area code Phone number

6. WELL DETAILS:
a. TOTAL DEPTH: 30'
b. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☑
c. WATER LEVEL Below Top of Casing: NA FT.
(Use "+" if Above Top of Casing)

d. TOP OF CASING IS (-0.25') FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. YIELD (gpm): NA METHOD OF TEST NA
f. DISINFECTION: Type NA Amount NA
g. WATER ZONES (depth):
Top 9' Bottom 12' Top Bottom
Top Bottom Top Bottom
Top Bottom Top Bottom

7. CASING:

	Depth	Diameter	Thickness/ Weight	Material
Top 0'	Bottom 20' Ft.	2"	sch40	PVC
Top	Bottom Ft.			
Top	Bottom Ft.			

8. GROUT:

	Depth	Material	Method
Top 0'	Bottom 16' Ft.	Neat Cement	Pour
Top 16'	Bottom 18' Ft.	Bentonite	Pour
Top	Bottom Ft.		

9. SCREEN:

	Depth	Diameter	Slot Size	Material
Top 20'	Bottom 30' Ft.	2 in.	0.010 in.	PVC
Top	Bottom Ft.	in.	in.	
Top	Bottom Ft.	in.	in.	

10. SAND/GRAVEL PACK:

	Depth	Size	Material
Top 18'	Bottom 30' Ft.	#2	Silica Sand
Top	Bottom Ft.		
Top	Bottom Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0'	1'	OVERBURDEN/GRASS
1'	8'	Clayey Sands
8'	30	fine to med Sands

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Stephen Keener 4-26-11
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Stephen W. Keener
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 3468-A

1. WELL CONTRACTOR:
Stephen W. Keener
Well Contractor (Individual) Name
Quantex, Inc.
Well Contractor Company Name
P.O. Box 41673
Street Address
Raleigh NC 27629
City or Town State Zip Code
(919) 219-9604
Area code Phone number

2. WELL INFORMATION:
WELL CONSTRUCTION PERMIT# WM0701019
OTHER ASSOCIATED PERMIT#(if applicable) NA
SITE WELL ID #(if applicable) MW - 11

3. WELL USE (Check One Box) Monitoring ☑ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation ☐ Other ☐ (list use)
DATE DRILLED 4-11-11

4. WELL LOCATION:
602 FORBES STREET 27858
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
CITY: Greenville COUNTY Pitt
TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐ Slope ☐ Valley ☑ Flat ☐ Ridge ☐ Other
LATITUDE 36 ° ' " DMS N 35.607531 DD
LONGITUDE 79 ° ' " DMS W 77.372951 DD
Latitude/longitude source: ☑ GPS ☐ Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)
Former 1-Hour Martinizing DSCA 74-0007
Facility Name Facility ID# (if applicable)
100 East Tenth Street
Street Address
Greenville NC 27858
City or Town State Zip Code
Preston Cannon Petitioner for DSCA 74-0007
Contact Name
312 Rutledge Road
Mailing Address
Greenville NC 27858
City or Town State Zip Code
( ) NA
Area code Phone number

6. WELL DETAILS:
a. **TOTAL DEPTH:** 20'
b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑
c. **WATER LEVEL** Below Top of Casing: NA FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** (-0.25') FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. **YIELD (gpm):** NA **METHOD OF TEST** NA
f. **DISINFECTION: Type** NA **Amount** NA
g. **WATER ZONES** (depth):
Top 12' Bottom 13' Top Bottom
Top Bottom Top Bottom
Top Bottom Top Bottom

7. CASING:

	Depth		Diameter	Thickness/ Weight	Material
Top 0'	Bottom 10'	Ft.	2"	sch40	PVC
Top	Bottom	Ft.			
Top	Bottom	Ft.			

8. GROUT:

	Depth		Material	Method
Top 0'	Bottom 6'	Ft.	Neat Cement	Pour
Top 6'	Bottom 8'	Ft.	Bentonite	Pour
Top	Bottom	Ft.		

9. SCREEN:

	Depth		Diameter	Slot Size	Material
Top 10'	Bottom 20'	Ft.	2 in.	0.010 in.	PVC
Top	Bottom	Ft.	in.	in.	
Top	Bottom	Ft.	in.	in.	

10. SAND/GRAVEL PACK:

	Depth		Size	Material
Top 8'	Bottom 20'	Ft.	#2	Silica Sand
Top	Bottom	Ft.		
Top	Bottom	Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0'	1'	OVERBURDEN / Grass
1'	6'	Clayey Sands
6'	20'	Sands

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Stephen Keener 4-26-11
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Stephen W. Keener
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
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NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

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P.O. Box 41673
Street Address
Raleigh NC 27629
City or Town State Zip Code
(919) 219-9604
Area code Phone number

2. WELL INFORMATION:
WELL CONSTRUCTION PERMIT# WM0701019
OTHER ASSOCIATED PERMIT#(if applicable) NA
SITE WELL ID #(if applicable) MW-10

3. WELL USE (Check One Box) Monitoring ☑ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation ☐ Other ☐ (list use)
DATE DRILLED 4-11-11

4. WELL LOCATION:
813 EVANS STREET 27858
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)
CITY: Greenville COUNTY Pitt
TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐Slope ☐Valley ☑Flat ☐Ridge ☐Other
LATITUDE 36 ° ' " DMS N 35.607339 DD
LONGITUDE 79 ° ' " DMS W 77.373796 DD
Latitude/longitude source: ☑GPS ☐Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)
Former 1-Hour Martinizing DSCA 74-0007
Facility Name Facility ID# (if applicable)
100 East Tenth Street
Street Address
Greenville NC 27858
City or Town State Zip Code
Preston Cannon Petitioner for DSCA 74-0007
Contact Name
312 Rutledge Road
Mailing Address
Greenville NC 27858
City or Town State Zip Code
( ) NA
Area code Phone number

6. WELL DETAILS:
a. **TOTAL DEPTH:** 29'
b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☑
c. **WATER LEVEL** Below Top of Casing: NA FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** (-0.25') FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.
e. **YIELD (gpm):** NA **METHOD OF TEST** NA
f. **DISINFECTION: Type** NA **Amount** NA
g. **WATER ZONES** (depth):
Top 16' Bottom 18' Top Bottom
Top Bottom Top Bottom
Top Bottom Top Bottom

7. CASING:

Depth		Diameter	Thickness/ Weight	Material
Top 0'	Bottom 14' Ft.	2"	sch40	PVC
Top	Bottom Ft.			
Top	Bottom Ft.			

8. GROUT:

Depth		Material	Method
Top 0'	Bottom 10' Ft.	Neat Cement	Pour
Top 10'	Bottom 12' Ft.	Bentonite	Pour
Top	Bottom Ft.		

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 14'	Bottom 29' Ft.	2 in.	0.010 in.	PVC
Top	Bottom Ft.	in.	in.	
Top	Bottom Ft.	in.	in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 12'	Bottom 29' Ft.	#2	Silica Sand
Top	Bottom Ft.		
Top	Bottom Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0'	1'	OVERBurden/grass
1'	15'	Clayey Sands
15'	29'	Sand - med

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Stephen Keener 4-26-11
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Stephen W. Keener
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

LEGEND

— · — PARCEL BOUNDARIES

MW-3 TYPE II GROUNDWATER MONITORING WELL LOCATION

MW-1D TYPE III GROUNDWATER MONITORING WELL LOCATION

(96.50) PERCHED AQUIFER GROUNDWATER ELEVATION (IN FEET)

(85.03) REGIONAL AQUIFER GROUNDWATER ELEVATION (IN FEET)

—95— PERCHED AQUIFER GROUNDWATER CONTOUR (IN FOOT INCREMENTS)

—85— REGIONAL AQUIFER GROUNDWATER CONTOUR (IN FOOT INCREMENTS)

NOTES:

(NM)=TOP OF CASINGS NOT SURVEYED

DASHED WHERE INFERRED

LOCATIONS OF EXISTING INTERNAL BUILDING WALLS ARE APPROXIMATE.

MONITORING WELLS MW-1, MW-2 and MW-3 LOCATIONS & BUILDING CORNERS DETERMINED BY W&R R.L.S.

MW-11 (NM)

MW-10 (NM)

MW-12 (NM)

MW-6 (83.67)

MW-5 (85.58)

84.00

85.00

MW-7 (84.69)

FORMER 1 HOUR MARTINIZING

MW-3 (96.90)

MW-2 (97.23)

MW-1D

MW-4 (93.15)

MW-1 (94.62)

97.00

96.00

95.00

94.00

93.00

EXISTING DRY-CLEANERS

FORMER DRY-CLEANERS

MW-8 (84.92)

MW-9 (96.08)

GRAPHIC SCALE

80 0 40 80 160

1 inch = 80 ft.

WITHERS & RAVENEL
ENGINEERS | PLANNERS | SURVEYORS
1410 Commonwealth Drive, Wilmington Suite 101, North Carolina 28403 tel: 910-254-0227 www.withersravenel.com License No. C-0832

Revisions

No.	Description	Date	By

DSCA # 74-0007
FORMER ONE HOUR MARTINIZING FACILITY
GREENVILLE, PITT COUNTY, NORTH CAROLINA

GROUNDWATER CONTOUR MAP
APRIL, 12, 2011

Drawn By	Scale
CF	1"=80'
Checked By	Date
BJB	8/12/10

Job No. 02060496.42
Sheet No. 6

W:\ENVIRONMENTAL\DSCA\060496.42-1 HR MARTINIZING ID74-0007\CAD\02060496.42_BASE_2011-03.DWG 5/6/2011 12:38 PM FAY, CHRISTOPHER 1:1

LEGEND

PARCEL BOUNDARIES

MW-3 TYPE II GROUNDWATER MONITORING WELL LOCATION

MW-1D TYPE III GROUNDWATER MONITORING WELL LOCATION

(0.560) PCE CONCENTRATION IN GROUNDWATER (IN mg/L)

1.0 PCE ISOCONCENTRATION LINE (DASHED WHERE INFERRED)

TW-17 0.048 2008 TEMPORARY GROUNDWATER WELL WITH TCE RESULTS IN mg/L

GP-27 0.0495 2009 TEMPORARY GROUNDWATER WELL WITH TCE RESULTS IN mg/L

NOTES ALL ANALYTICAL RESULTS IN mg/L.

LOCATIONS OF EXISTING INTERNAL BUILDING WALLS ARE APPROXIMATE.

MONITORING WELLS MW-1, MW-2 and MW-3 LOCATIONS & BUILDING CORNERS DETERMINED BY W&R R.L.S.

MW-11 (0.0073)

MW-12 (0.0086)

MW-10 (≤0.001)

MW-6 (1.9)

MW-5 (<0.500)

TW-19 0.0037

TW-17 0.048

TW-18 0.168

TW-1 0.0082

TW-12 0.076

TW-11 2.11

TW-2 <0.001

TW-3 <0.001

TW-4 <0.001

TW-16 0.849

TW-9 0.704

TW-5 2.42

TW-6 0.036

TW-7 0.629

TW-8 2.18

MW-1 (<0.001)

MW-2 (9.2)

MW-3 (0.560)

MW-4 (<0.001)

MW-7 (1.5)

MW-8 (<0.001)

MW-9 (<0.001)

GP-34 0.23

GP-32 1.1

GP-31 0.27

GP-30 0.0116

GP-29 0.78

GP-28 0.00093 J

GP-20 (<0.001)

GP-18 BDL

GP-19 BDL

0.0007

0.1

1.0

FORMER 1 HOUR MARTINIZING

EXISTING DRY-CLEANERS

FORMER DRY-CLEANERS

GRAPHIC SCALE

100 0 50 100 200

1 inch = 100 ft.

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tel: 910-256-9277 fax: 910-256-2584

Revisions

No.	Description	Date	By

DSCA # 74-0007
FORMER ONE HOUR MARTINIZING FACILITY
GREENVILLE, PITT COUNTY, NORTH CAROLINA

HISTORICAL RESULTS FOR PCE IN GROUNDWATER
ISOCONCENTRATION MAP

Drawn By	Scale
CF	1"=100'
Checked By	Date
BJB	8/11/10

Job No. 02060496.42
Sheet No. 7a

LEGEND

— · — PARCEL BOUNDARIES

MW-3 TYPE II GROUNDWATER MONITORING WELL LOCATION

MW-1D TYPE III GROUNDWATER MONITORING WELL LOCATION

(0.560) TCE CONCENTRATION IN GROUNDWATER (IN mg/L)

—1.0— TCE ISOCONCENTRATION LINE (DASHED WHERE INFERRED)

TW-17 0.048 2008 TEMPORARY GROUNDWATER WELL WITH TCE RESULTS IN mg/L

GP-27 0.0495 2009 TEMPORARY GROUNDWATER WELL WITH TCE RESULTS IN mg/L

NOTES ALL ANALYTICAL RESULTS IN mg/L.

LOCATIONS OF EXISTING INTERNAL BUILDING WALLS ARE APPROXIMATE.

MONITORING WELLS MW-1, MW-2 and MW-3 LOCATIONS & BUILDING CORNERS DETERMINED BY W&R R.L.S.

MW-11 (<0.001)
MW-10 (0.0025)
MW-12 (0.0533)
MW-6 (0.300)
MW-5 (<0.500)
TW-19 (0.0089)
GP-27 (0.011)
GP-34 (0.012)
TW-17 (0.0371)
TW-18 (0.0294)
FORMER 1 HOUR MARTINIZING
TW-1 (0.0035)
TW-12 (0.0252)
TW-11 (0.3257)
MW-7 (0.400)
TW-2 (<0.001)
TW-10 (0.4506)
MW-3 (0.400)
GP-28 (0.00048)
TW-3 (<0.001)
MW-2 (4.0)
(0.5312)
GP-32 (0.0093)
GP-31 (0.014)
MW-4 (<0.001)
TW-4 (<0.001)
TW-16 (0.1865)
MW-1 (<0.001)
TW-9 (0.1982)
EXISTING DRY-CLEANERS
FORMER DRY-CLEANERS
TW-5 (0.4391)
TW-6 (0.0071)
TW-7 (0.035)
TW-8 (0.1126)
MW-8 (<0.001)
GP-30 (<0.001)
GP-29 (0.09)
GP-18 (<0.001)
MW-9 (<0.001)
GP-19 (<0.001)
GP-20 (<0.001)
0.001
0.1
0.003
0.005
1.0

GRAPHIC SCALE
100 0 50 100 200
1 inch = 100 ft.

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tel: 910-256-9277 fax: 910-256-2584

Revisions

No.	Description	Date	By

DSCA # 74-0007
FORMER ONE HOUR MARTINIZING FACILITY
GREENVILLE, PITT COUNTY, NORTH CAROLINA

HISTORICAL RESULTS FOR TCE IN GROUNDWATER
ISOCONCENTRATION MAP

Drawn By	Scale
CF	1"=100'
Checked By	Date
BJB	8/11/10

Job No. 02060496.42
Sheet No. 7b

LEGEND

PARCEL BOUNDARIES

MW-3 TYPE II GROUNDWATER MONITORING WELL LOCATION

MW-1D TYPE III GROUNDWATER MONITORING WELL LOCATION

(0.560) cis 1,2 DCE CONCENTRATION IN GROUNDWATER (IN mg/L)

1.0 cis 1,2 DCE ISOCONCENTRATION LINE (DASHED WHERE INFERRED)

TW-17 0.048 2008 TEMPORARY GROUNDWATER WELL WITH cis 1,2 DCE RESULTS IN mg/L

GP-27 0.0495 2009 TEMPORARY GROUNDWATER WELL WITH cis 1,2 DCE RESULTS IN mg/L

NOTES ALL ANALYTICAL RESULTS IN mg/L.

LOCATIONS OF EXISTING INTERNAL BUILDING WALLS ARE APPROXIMATE.

MONITORING WELLS MW-1, MW-2 and MW-3 LOCATIONS & BUILDING CORNERS DETERMINED BY W&R R.L.S.

MW-11 (<0.001)

MW-10 (<0.001)

MW-12 (0.0029)

MW-6 (0.068)

0.070

MW-5 (0.780)

TW-19 (<0.001)

GP-34 (<0.001)

GP-27 (0.0025)

TW-17 (0.3917)

TW-18 (0.0065)

0.070

0.070

FORMER 1 HOUR MARTINIZING

TW-1 (<0.001)

TW-12 (0.0047)

0.070

MW-7 (0.210)

TW-11 (0.8915)

TW-2 (<0.001)

TW-2 (2.9098)

MW-3 (2.9)

1.0

GP-28 (0.00045J)

TW-3 (0.0012)

MW-2 (1.3)

(1.1537)

GP-32 (0.0079)

GP-31 (0.011)

MW-4 (<0.001)

TW-4 (0.0014)

TW-16 (0.0486)

MW-1 (4.5)

TW-9 (1.3501)

EXISTING DRY-CLEANERS

FORMER DRY-CLEANERS

TW-5 (0.9294)

TW-6 (0.027)

TW-7 (0.0086)

TW-8 (0.0116)

MW-8 (<0.001)

GP-30 (<0.001)

GP-29 (<0.001)

GP-18 (<0.001)

MW-9 (<0.001)

GP-19 (<0.001)

GP-20 (<0.001)

GRAPHIC SCALE

80 0 40 80 160

1 inch = 80 ft.

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Revisions			
No.	Description	Date	By

DSCA # 74-0007
FORMER ONE HOUR MARTINIZING FACILITY
GREENVILLE, PITT COUNTY, NORTH CAROLINA

HISTORICAL RESULTS FOR cis 1,2 DCE IN GROUNDWATER ISOCONCENTRATION MAP

Drawn By	Scale
CF	1"=80'
Checked By	Date
BJB	8/11/10

Job No. 02060496.42
Sheet No. 7c

W:\ENVIRONMENTAL\DSCA\060496.42-1 HR MARTINIZING ID74-0007\CAD\02060496.42_BASE_2011-03.DWG 5/5/2011 12:23 PM FAY, CHRISTOPHER 1:1

LEGEND

— · — PARCEL BOUNDARIES

MW-3 TYPE II GROUNDWATER MONITORING WELL LOCATION

MW-1D TYPE III GROUNDWATER MONITORING WELL LOCATION

(0.560) VC CONCENTRATION IN GROUNDWATER (IN mg/L)

—1.0— VC ISOCONCENTRATION LINE (DASHED WHERE INFERRED)

TW-17 / 0.048 2008 TEMPORARY GROUNDWATER WELL WITH VC RESULTS IN mg/L

GP-27 / 0.0495 2009 TEMPORARY GROUNDWATER WELL WITH VC RESULTS IN mg/L

NOTES ALL ANALYTICAL RESULTS IN mg/L.

LOCATIONS OF EXISTING INTERNAL BUILDING WALLS ARE APPROXIMATE.

MONITORING WELLS MW-1, MW-2 and MW-3 LOCATIONS & BUILDING CORNERS DETERMINED BY W&R R.L.S.

MW-11 (<0.001)
MW-10 (<0.001)
MW-12 (<0.001)
MW-6 (<0.001)
MW-5 (<0.500)
TW-19 (<0.001)
GP-27 (<0.001)
GP-34 (<0.001)
TW-17 (<0.001)
TW-18 (<0.001)
FORMER 1 HOUR MARTINIZING
TW-1 (<0.001)
TW-12 (<0.001)
MW-7 (0.002)
BDL
TW-2 (<0.001)
TW-11 (0.0152)
TW-10 (0.1528)
MW-3 (0.064)
TW-3 (<0.001)
BDL
GP-28 (<0.001)
MW-2 (0.031)
(0.0398)
MW-4 (<0.001)
TW-4 (<0.001)
TW-16 (<0.001)
MW-1 (<0.001)
TW-9 (0.0742)
GP-32 (<0.001)
GP-31 (<0.001)
FORMER DRY-CLEANERS
EXISTING DRY-CLEANERS
TW-5 (0.3082)
TW-6 (<0.001)
TW-7 (<0.001)
TW-8 (<0.001)
MW-8 (<0.001)
GP-30 (<0.001)
GP-29 (<0.001)
GP-18 (<0.001)
MW-9 (<0.001)
GP-19 (<0.001)
GP-20 (<0.001)

GRAPHIC SCALE
100 0 50 100 200
1 inch = 100 ft.

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Revisions			
No.	Description	Date	By

DSCA # 74-0007
FORMER ONE HOUR MARTINIZING FACILITY
GREENVILLE, PITT COUNTY, NORTH CAROLINA

HISTORICAL RESULTS FOR VINYL CHLORIDE IN GROUNDWATER
ISOCONCENTRATION MAP

Drawn By	Scale
CF	1"=100'
Checked By	Date
BJB	8/11/10

Job No. 02060496.42
Sheet No. 7d

W:\ENVIRONMENTAL\DSCA\060496.42-1 HR MARTINIZING ID74-0007\CAD\02060496.42_BASE_2011-03.DWG 5/5/2011 12:25 PM FAY.

ATTACHMENT 12
Laboratory Report

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

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

April 26, 2011

Chris Fay
Withers & Ravenel_Wilimington
1410 Commonwealth Dr
Suite 101
Wilmington, NC 28403

RE: Project: 1 HR Koretizing
Pace Project No.: 9291969

Dear Chris Fay:
Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated 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,

Ashley Nifong

ashley.nifong@pacelabs.com
Project Manager

Enclosures

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: 1 HR Koretizing
Pace Project No.: 9291969

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

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Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 1 HR Koretizing
Pace Project No.: 9291969

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9291969001	**MW-10**	EPA 8260	MCK	63	PASI-C
9291969002	**MW-11**	EPA 8260	MCK	63	PASI-C
9291969003	**MW-12**	EPA 8260	MCK	63	PASI-C

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 1 HR Koretizing
Pace Project No.: 9291969

Sample: MW-10 **Lab ID: 9291969001** Collected: 04/12/11 12:00 Received: 04/14/11 09:45 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		04/25/11 15:15	67-64-1	
Benzene	**8.7**	ug/L	1.0	1		04/25/11 15:15	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		04/25/11 15:15	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		04/25/11 15:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		04/25/11 15:15	75-27-4	
Bromoform	ND	ug/L	1.0	1		04/25/11 15:15	75-25-2	
Bromomethane	ND	ug/L	2.0	1		04/25/11 15:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		04/25/11 15:15	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		04/25/11 15:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		04/25/11 15:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		04/25/11 15:15	75-00-3	
Chloroform	ND	ug/L	1.0	1		04/25/11 15:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		04/25/11 15:15	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		04/25/11 15:15	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		04/25/11 15:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		04/25/11 15:15	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		04/25/11 15:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		04/25/11 15:15	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		04/25/11 15:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		04/25/11 15:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		04/25/11 15:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		04/25/11 15:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		04/25/11 15:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		04/25/11 15:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		04/25/11 15:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		04/25/11 15:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		04/25/11 15:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		04/25/11 15:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		04/25/11 15:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		04/25/11 15:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		04/25/11 15:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		04/25/11 15:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		04/25/11 15:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		04/25/11 15:15	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		04/25/11 15:15	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		04/25/11 15:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		04/25/11 15:15	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		04/25/11 15:15	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		04/25/11 15:15	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		04/25/11 15:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		04/25/11 15:15	108-10-1	
Methyl-tert-butyl ether	**1.3**	ug/L	1.0	1		04/25/11 15:15	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		04/25/11 15:15	91-20-3	
Styrene	ND	ug/L	1.0	1		04/25/11 15:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		04/25/11 15:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		04/25/11 15:15	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		04/25/11 15:15	127-18-4	

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(828)254-7176

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 1 HR Koretizing
Pace Project No.: 9291969

Sample: MW-10 **Lab ID: 9291969001** Collected: 04/12/11 12:00 Received: 04/14/11 09:45 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		04/25/11 15:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		04/25/11 15:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		04/25/11 15:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		04/25/11 15:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		04/25/11 15:15	79-00-5	
Trichloroethene	**2.5**	ug/L	1.0	1		04/25/11 15:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		04/25/11 15:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		04/25/11 15:15	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		04/25/11 15:15	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		04/25/11 15:15	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		04/25/11 15:15	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		04/25/11 15:15	95-47-6	
4-Bromofluorobenzene (S)	93	%	70-130	1		04/25/11 15:15	460-00-4	
Dibromofluoromethane (S)	108	%	70-130	1		04/25/11 15:15	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		04/25/11 15:15	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		04/25/11 15:15	2037-26-5	

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ANALYTICAL RESULTS

Project: 1 HR Koretizing
Pace Project No.: 9291969

Sample: MW-11 **Lab ID: 9291969002** Collected: 04/12/11 13:10 Received: 04/14/11 09:45 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		04/25/11 15:41	67-64-1	
Benzene	ND	ug/L	1.0	1		04/25/11 15:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		04/25/11 15:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		04/25/11 15:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		04/25/11 15:41	75-27-4	
Bromoform	ND	ug/L	1.0	1		04/25/11 15:41	75-25-2	
Bromomethane	ND	ug/L	2.0	1		04/25/11 15:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		04/25/11 15:41	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		04/25/11 15:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		04/25/11 15:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		04/25/11 15:41	75-00-3	
Chloroform	ND	ug/L	1.0	1		04/25/11 15:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		04/25/11 15:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		04/25/11 15:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		04/25/11 15:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		04/25/11 15:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		04/25/11 15:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		04/25/11 15:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		04/25/11 15:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		04/25/11 15:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		04/25/11 15:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		04/25/11 15:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		04/25/11 15:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		04/25/11 15:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		04/25/11 15:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		04/25/11 15:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		04/25/11 15:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		04/25/11 15:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		04/25/11 15:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		04/25/11 15:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		04/25/11 15:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		04/25/11 15:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		04/25/11 15:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		04/25/11 15:41	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		04/25/11 15:41	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		04/25/11 15:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		04/25/11 15:41	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		04/25/11 15:41	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		04/25/11 15:41	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		04/25/11 15:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		04/25/11 15:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		04/25/11 15:41	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		04/25/11 15:41	91-20-3	
Styrene	ND	ug/L	1.0	1		04/25/11 15:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		04/25/11 15:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		04/25/11 15:41	79-34-5	
Tetrachloroethene	**7.3**	ug/L	1.0	1		04/25/11 15:41	127-18-4	

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ANALYTICAL RESULTS

Project: 1 HR Koretizing
Pace Project No.: 9291969

Sample: MW-11 **Lab ID: 9291969002** Collected: 04/12/11 13:10 Received: 04/14/11 09:45 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		04/25/11 15:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		04/25/11 15:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		04/25/11 15:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		04/25/11 15:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		04/25/11 15:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		04/25/11 15:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		04/25/11 15:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		04/25/11 15:41	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		04/25/11 15:41	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		04/25/11 15:41	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		04/25/11 15:41	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		04/25/11 15:41	95-47-6	
4-Bromofluorobenzene (S)	92	%	70-130	1		04/25/11 15:41	460-00-4	
Dibromofluoromethane (S)	109	%	70-130	1		04/25/11 15:41	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		04/25/11 15:41	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		04/25/11 15:41	2037-26-5	

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ANALYTICAL RESULTS

Project: 1 HR Koretizing
Pace Project No.: 9291969

Sample: MW-12 **Lab ID: 9291969003** Collected: 04/12/11 12:35 Received: 04/14/11 09:45 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		04/25/11 16:06	67-64-1	
Benzene	ND	ug/L	1.0	1		04/25/11 16:06	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		04/25/11 16:06	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		04/25/11 16:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		04/25/11 16:06	75-27-4	
Bromoform	ND	ug/L	1.0	1		04/25/11 16:06	75-25-2	
Bromomethane	ND	ug/L	2.0	1		04/25/11 16:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		04/25/11 16:06	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		04/25/11 16:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		04/25/11 16:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		04/25/11 16:06	75-00-3	
Chloroform	ND	ug/L	1.0	1		04/25/11 16:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		04/25/11 16:06	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		04/25/11 16:06	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		04/25/11 16:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		04/25/11 16:06	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		04/25/11 16:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		04/25/11 16:06	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		04/25/11 16:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		04/25/11 16:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		04/25/11 16:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		04/25/11 16:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		04/25/11 16:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		04/25/11 16:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		04/25/11 16:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		04/25/11 16:06	75-35-4	
cis-1,2-Dichloroethene	**2.9**	ug/L	1.0	1		04/25/11 16:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		04/25/11 16:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		04/25/11 16:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		04/25/11 16:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		04/25/11 16:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		04/25/11 16:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		04/25/11 16:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		04/25/11 16:06	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		04/25/11 16:06	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		04/25/11 16:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		04/25/11 16:06	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		04/25/11 16:06	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		04/25/11 16:06	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		04/25/11 16:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		04/25/11 16:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		04/25/11 16:06	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		04/25/11 16:06	91-20-3	
Styrene	ND	ug/L	1.0	1		04/25/11 16:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		04/25/11 16:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		04/25/11 16:06	79-34-5	
Tetrachloroethene	**8.6**	ug/L	1.0	1		04/25/11 16:06	127-18-4	

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ANALYTICAL RESULTS

Project: 1 HR Koretizing
Pace Project No.: 9291969

Sample: MW-12 **Lab ID: 9291969003** Collected: 04/12/11 12:35 Received: 04/14/11 09:45 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		04/25/11 16:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		04/25/11 16:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		04/25/11 16:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		04/25/11 16:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		04/25/11 16:06	79-00-5	
Trichloroethene	**53.3**	ug/L	1.0	1		04/25/11 16:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		04/25/11 16:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		04/25/11 16:06	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		04/25/11 16:06	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		04/25/11 16:06	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		04/25/11 16:06	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		04/25/11 16:06	95-47-6	
4-Bromofluorobenzene (S)	92	%	70-130	1		04/25/11 16:06	460-00-4	
Dibromofluoromethane (S)	109	%	70-130	1		04/25/11 16:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		04/25/11 16:06	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		04/25/11 16:06	2037-26-5	

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QUALITY CONTROL DATA

Project: 1 HR Koretizing
Pace Project No.: 9291969

QC Batch: MSV/14923 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9291969001, 9291969002, 9291969003

METHOD BLANK: 595858 Matrix: Water
Associated Lab Samples: 9291969001, 9291969002, 9291969003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	04/25/11 11:26	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/25/11 11:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/25/11 11:26	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/25/11 11:26	
1,1-Dichloroethane	ug/L	ND	1.0	04/25/11 11:26	
1,1-Dichloroethene	ug/L	ND	1.0	04/25/11 11:26	
1,1-Dichloropropene	ug/L	ND	1.0	04/25/11 11:26	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	04/25/11 11:26	
1,2,3-Trichloropropane	ug/L	ND	1.0	04/25/11 11:26	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	04/25/11 11:26	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	04/25/11 11:26	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/25/11 11:26	
1,2-Dichlorobenzene	ug/L	ND	1.0	04/25/11 11:26	
1,2-Dichloroethane	ug/L	ND	1.0	04/25/11 11:26	
1,2-Dichloropropane	ug/L	ND	1.0	04/25/11 11:26	
1,3-Dichlorobenzene	ug/L	ND	1.0	04/25/11 11:26	
1,3-Dichloropropane	ug/L	ND	1.0	04/25/11 11:26	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/25/11 11:26	
2,2-Dichloropropane	ug/L	ND	1.0	04/25/11 11:26	
2-Butanone (MEK)	ug/L	ND	5.0	04/25/11 11:26	
2-Chlorotoluene	ug/L	ND	1.0	04/25/11 11:26	
2-Hexanone	ug/L	ND	5.0	04/25/11 11:26	
4-Chlorotoluene	ug/L	ND	1.0	04/25/11 11:26	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	04/25/11 11:26	
Acetone	ug/L	ND	25.0	04/25/11 11:26	
Benzene	ug/L	ND	1.0	04/25/11 11:26	
Bromobenzene	ug/L	ND	1.0	04/25/11 11:26	
Bromochloromethane	ug/L	ND	1.0	04/25/11 11:26	
Bromodichloromethane	ug/L	ND	1.0	04/25/11 11:26	
Bromoform	ug/L	ND	1.0	04/25/11 11:26	
Bromomethane	ug/L	ND	2.0	04/25/11 11:26	
Carbon tetrachloride	ug/L	ND	1.0	04/25/11 11:26	
Chlorobenzene	ug/L	ND	1.0	04/25/11 11:26	
Chloroethane	ug/L	ND	1.0	04/25/11 11:26	
Chloroform	ug/L	ND	1.0	04/25/11 11:26	
Chloromethane	ug/L	ND	1.0	04/25/11 11:26	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/25/11 11:26	
cis-1,3-Dichloropropene	ug/L	ND	1.0	04/25/11 11:26	
Dibromochloromethane	ug/L	ND	1.0	04/25/11 11:26	
Dibromomethane	ug/L	ND	1.0	04/25/11 11:26	
Dichlorodifluoromethane	ug/L	ND	1.0	04/25/11 11:26	
Diisopropyl ether	ug/L	ND	1.0	04/25/11 11:26	
Ethylbenzene	ug/L	ND	1.0	04/25/11 11:26	

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QUALITY CONTROL DATA

Project: 1 HR Koretizing
Pace Project No.: 9291969

METHOD BLANK: 595858 Matrix: Water

Associated Lab Samples: 9291969001, 9291969002, 9291969003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	1.0	04/25/11 11:26	
m&p-Xylene	ug/L	ND	2.0	04/25/11 11:26	
Methyl-tert-butyl ether	ug/L	ND	1.0	04/25/11 11:26	
Methylene Chloride	ug/L	ND	2.0	04/25/11 11:26	
Naphthalene	ug/L	ND	1.0	04/25/11 11:26	
o-Xylene	ug/L	ND	1.0	04/25/11 11:26	
p-Isopropyltoluene	ug/L	ND	1.0	04/25/11 11:26	
Styrene	ug/L	ND	1.0	04/25/11 11:26	
Tetrachloroethene	ug/L	ND	1.0	04/25/11 11:26	
Toluene	ug/L	ND	1.0	04/25/11 11:26	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/25/11 11:26	
trans-1,3-Dichloropropene	ug/L	ND	1.0	04/25/11 11:26	
Trichloroethene	ug/L	ND	1.0	04/25/11 11:26	
Trichlorofluoromethane	ug/L	ND	1.0	04/25/11 11:26	
Vinyl acetate	ug/L	ND	2.0	04/25/11 11:26	
Vinyl chloride	ug/L	ND	1.0	04/25/11 11:26	
1,2-Dichloroethane-d4 (S)	%	105	70-130	04/25/11 11:26	
4-Bromofluorobenzene (S)	%	94	70-130	04/25/11 11:26	
Dibromofluoromethane (S)	%	107	70-130	04/25/11 11:26	
Toluene-d8 (S)	%	97	70-130	04/25/11 11:26	

LABORATORY CONTROL SAMPLE: 595859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.1	102	70-130	
1,1,1-Trichloroethane	ug/L	50	52.1	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.9	100	70-130	
1,1,2-Trichloroethane	ug/L	50	50.5	101	70-130	
1,1-Dichloroethane	ug/L	50	49.3	99	70-130	
1,1-Dichloroethene	ug/L	50	50.1	100	70-132	
1,1-Dichloropropene	ug/L	50	46.0	92	70-130	
1,2,3-Trichlorobenzene	ug/L	50	49.3	99	70-135	
1,2,3-Trichloropropane	ug/L	50	50.2	100	70-130	
1,2,4-Trichlorobenzene	ug/L	50	48.9	98	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	46.6	93	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.8	102	70-130	
1,2-Dichlorobenzene	ug/L	50	49.0	98	70-130	
1,2-Dichloroethane	ug/L	50	50.7	101	70-130	
1,2-Dichloropropane	ug/L	50	46.3	93	70-130	
1,3-Dichlorobenzene	ug/L	50	49.4	99	70-130	
1,3-Dichloropropane	ug/L	50	48.8	98	70-130	
1,4-Dichlorobenzene	ug/L	50	49.2	98	70-130	
2,2-Dichloropropane	ug/L	50	55.8	112	58-145	
2-Butanone (MEK)	ug/L	100	103	103	70-145	
2-Chlorotoluene	ug/L	50	49.1	98	70-130	

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(704)875-9092

QUALITY CONTROL DATA

Project: 1 HR Koretizing
Pace Project No.: 9291969

LABORATORY CONTROL SAMPLE: 595859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	100	97.0	97	70-144	
4-Chlorotoluene	ug/L	50	49.9	100	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.5	97	70-140	
Acetone	ug/L	100	100	100	50-175	
Benzene	ug/L	50	47.0	94	70-130	
Bromobenzene	ug/L	50	49.5	99	70-130	
Bromochloromethane	ug/L	50	49.4	99	70-130	
Bromodichloromethane	ug/L	50	49.8	100	70-130	
Bromoform	ug/L	50	49.3	99	70-130	
Bromomethane	ug/L	50	42.1	84	54-130	
Carbon tetrachloride	ug/L	50	50.3	101	70-132	
Chlorobenzene	ug/L	50	48.8	98	70-130	
Chloroethane	ug/L	50	43.2	86	64-134	
Chloroform	ug/L	50	51.8	104	70-130	
Chloromethane	ug/L	50	48.5	97	64-130	
cis-1,2-Dichloroethene	ug/L	50	48.5	97	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.9	98	70-130	
Dibromochloromethane	ug/L	50	49.9	100	70-130	
Dibromomethane	ug/L	50	49.9	100	70-131	
Dichlorodifluoromethane	ug/L	50	56.9	114	56-130	
Diisopropyl ether	ug/L	50	48.0	96	70-130	
Ethylbenzene	ug/L	50	49.6	99	70-130	
Hexachloro-1,3-butadiene	ug/L	50	49.3	99	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	51.3	103	70-130	
Methylene Chloride	ug/L	50	48.0	96	63-130	
Naphthalene	ug/L	50	49.5	99	70-138	
o-Xylene	ug/L	50	49.8	100	70-130	
p-Isopropyltoluene	ug/L	50	51.5	103	70-130	
Styrene	ug/L	50	50.9	102	70-130	
Tetrachloroethene	ug/L	50	52.4	105	70-130	
Toluene	ug/L	50	48.7	97	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.8	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	49.2	98	70-132	
Trichloroethene	ug/L	50	49.9	100	70-130	
Trichlorofluoromethane	ug/L	50	56.2	112	62-133	
Vinyl acetate	ug/L	100	113	113	66-157	
Vinyl chloride	ug/L	50	49.9	100	69-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			104	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: 1 HR Koretizing
Pace Project No.: 9291969

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 595860 595861

Parameter	Units	9292366002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	56.8	56.3	114	113	70-166	1	
Benzene	ug/L	ND	50	50	52.6	52.6	105	105	70-148	0	
Chlorobenzene	ug/L	ND	50	50	52.1	52.3	104	105	70-146	0	
Toluene	ug/L	ND	50	50	53.7	53.4	107	107	70-155	0	
Trichloroethene	ug/L	ND	50	50	52.9	52.2	106	104	69-151	1	
1,2-Dichloroethane-d4 (S)	%						116	115	70-130		
4-Bromofluorobenzene (S)	%						89	90	70-130		
Dibromofluoromethane (S)	%						112	111	70-130		
Toluene-d8 (S)	%						96	97	70-130		

QUALIFIERS

Project: 1 HR Koretizing
Pace Project No.: 9291969

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.

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.

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

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1 HR Koretizing
Pace Project No.: 9291969

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9291969001	**MW-10**	EPA 8260	MSV/14923		
9291969002	**MW-11**	EPA 8260	MSV/14923		
9291969003	**MW-12**	EPA 8260	MSV/14923		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1432750

Section A Required Client Information:

Company: W&R
Address: 1910 Commonwealth
Wilmington, NC
Email To: Chris.Fay@WithersRavenel.com
Phone: 9192569277 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Chris Fay
Copy To:
Purchase Order No.:
Project Name: 1 Hr Montinizing
Project Number: 07060496.42

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 4018-1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER DSCA

Site Location STATE: NC

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-10	WT	G			4/13	1200	19	3				3					X	X		921969
2	MW-11	WT	G			↓	1310	19	3				3					X	X		
3	MW-12	WT	G			↓	1235	21	3				3					X	X		
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	CF/Sampler	4/13		Nate Stg Pace	4/13/11	1300		Y		
				Jamell Cloud Pace	4/14/11	945	5C	Y	N	Y
					4/14/11		3.0			

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Chris Fay
SIGNATURE of SAMPLER: CF
DATE Signed (MM/DD/YY): 4/13/11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.