Hazardous Waste Section

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September 18, 2015

North Carolina Department of Environment and Natural Resources
Division of Waste Management
Hazardous Waste Section
217 West Jones Street
Raleigh, North Carolina 27603

Attention: Mary Siedlecki

Subject: 2015 Annual Groundwater Monitoring Report
International Paper Box Plant
5419 Hovis Road
Charlotte, North Carolina
EPA ID No. NCD 003 156 460
Antea USA of NC Project No: 5E080-9329-P

Dear Ms. Siedlecki:

Antea USA of North Carolina, Inc. (Antea USA of NC) is pleased to present the following *2015 Annual Groundwater Monitoring Report* for the International Paper Box Plant in Charlotte, North Carolina. If you have any questions, please contact me at (704) 543-3910.

Sincerely,

Gary C. Ribblett, P.E.
Senior Project Manager

cc: David Moody, International Paper
Tom Griffin, Parker, Poe, Adams and Bernstein
Tom Richardson, International Paper

2015 Annual Groundwater Monitoring Report

International Paper Box Plant
5419 Hovis Road
Charlotte, North Carolina
EPA ID No. NCD 003 156 460

Antea USA of NC Project No. 5E080-9329-P
September 2015

Prepared for:
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2015 Annual Groundwater Monitoring Report

International Paper Box Plant
5419 Hovis Road
Charlotte, North Carolina
EPA ID No. NCD 003 156 460
Antea USA of NC Project No. 5E080-9329-P

1.0 INTRODUCTION

Antea USA of North Carolina, Inc. (Antea USA of NC), on behalf of International Paper (IP), is pleased to submit the *2015 Annual Groundwater Monitoring Report* to the Hazardous Waste Section (HWS) of the North Carolina Department of Environment and Natural Resources (NCDENR). This report summarizes groundwater monitoring activities conducted at the IP Box Plant located at 5419 Hovis Road in Charlotte, North Carolina (the Site) on July 15 and 16, 2015. As required by Administrative Order by Consent, Docket Number 93-042, the information contained within this report is presented in accordance with requirements outlined in Item 3B. The groundwater monitoring activities were performed in accordance with the procedures outlined in the NCDENR-approved Groundwater Sampling and Analysis Plan (SAP) dated December 2008.

2.0 ACTIVITIES PERFORMED DURING THIS PERIOD

The following tasks were completed during the reporting period [for reference purposes, a Site Map is included as **Figure 1**]:

- Depth to groundwater data was collected for shallow monitoring wells MW-01, MW-02, MW-02BR, MW-03, MW-04, MW-05, MW-06, MW-07, MW-08, MW-09, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, and deep monitoring wells DW-01, DW-02, DW-03, DW-04, and DW-05 on July 15, 2015.
- Groundwater samples were collected from shallow monitoring wells MW-01, MW-02, MW-02BR, MW-03, MW-04, MW-05, MW-06, MW-07, MW-08, MW-09, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, and deep monitoring wells DW-01, DW-02, DW-03, DW-04, and DW-05 on July 15-16, 2015.
- Semi-annual Resource Conservation Recovery Act (RCRA) and well pad inspection check.

3.0 GROUNDWATER FLOW

Depth-to-groundwater measurements were collected from shallow monitoring wells MW-01, MW-02, MW-02BR, MW-03, MW-04, MW-05, MW-06, MW-07, MW-08, MW-09, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, and deep monitoring wells DW-01, DW-02, DW-03, DW-04, and DW-05 using a decontaminated electronic interface probe on July 15, 2015. The groundwater elevations calculated from this data are summarized in **Table 1**. The groundwater flow direction in the surficial aquifer was evaluated using the groundwater elevations from shallow monitoring wells MW-01, MW-02, MW-02BR, and MW-03 through MW-14 to develop a shallow potentiometric map (**Figure 2**).

As summarized in the *Revised 2010 Annual Groundwater Monitoring Report and Conceptual Site Model Update,* the response of groundwater elevation and flow patterns to rain events were investigated at select monitoring wells. Shallow monitoring well MW-15 was not included in the 2015 groundwater elevation contouring.

Interpretation of the potentiometric map suggests that the surficial aquifer flows generally toward the west with an area of northerly flow near the property line to the south of the study area. This is consistent with groundwater flow directions inferred from data obtained during previous groundwater gauging events. Historical groundwater elevation data are provided in **Appendix A**.

The water table elevation data was used to calculate separate horizontal hydraulic gradients for the western and northern components of groundwater flow across the Site. The approximate hydraulic gradient for groundwater flow to the west is 0.0252 feet per foot (ft/ft) as measured between monitoring wells MW-03 and MW-04. The approximate horizontal gradient for the northern flow is 0.0325 (ft/ft) as measured between monitoring wells MW-12 and MW-04. As a result, the average calculated horizontal gradient across the entire Site is approximately 0.0288 (ft/ft). The hydraulic gradient calculations are included in **Appendix B**.

The linear groundwater flow velocity was estimated from the modified Darcy equation:

$$V = \frac{K\,(i)}{n}$$

V = Average Linear Flow Velocity

K = Average Hydraulic Conductivity (feet/day)

i = Horizontal hydraulic gradient: (h1 – h2 / L) = feet/foot

n = Estimated Effective Porosity (0.10 cm^3_{void}/cm^3_{soil} or 10%)

Based on the average horizontal hydraulic gradient of 0.0288 (ft/ft), and an average hydraulic conductivity of 1.61 x 10^{-3} ft/day (as calculated in the *Revised 2010 Annual Groundwater Monitoring Report and Site Conceptual Model Update*), the groundwater flow velocity for the shallow aquifer at the Site is estimated to be 4.637 x 10^{-4} ft/day, or approximately 0.1693 ft/year.

4.0 GROUNDWATER CHEMISTRY

In accordance with the December 2008 SAP, groundwater samples were collected from shallow monitoring wells MW-01, MW-04, MW-05, MW-06, MW-11, MW-12, MW-13, MW-14, MW-15 and deep monitoring wells DW-01, DW-02, DW-04, and DW-05 on July 15 and 16, 2015.

Additional monitoring wells MW-02, MW-02BR, MW-03, MW-07, MW-08, MW-09, MW-10, and DW-03 were sampled during this event in order to better define the extent of 1,1-Dichloroethene (1,1-DCE) and vinyl chloride at the site. All groundwater samples were collected in laboratory-supplied containers using new, disposable, Teflon bailers or decontaminated submersible pump, placed into an ice-filled cooler, and transported under chain-of-custody to Pace Analytical Services, Inc. (PACE) in Huntersville, North Carolina for laboratory analysis. Groundwater samples collected from shallow monitoring wells MW-01, MW-02, MW-02BR, MW-03, MW-04, MW-06 through MW-10, MW-13, MW-15 and deep monitoring wells DW-01 through DW-04 were analyzed for volatile organic compounds (VOCs) using EPA Method 8260. As specified in the current access agreement, the groundwater samples collected from off-site shallow monitoring wells MW-05, MW-11, MW-12, MW-14, and deep monitoring well DW-05 were analyzed only for the following target compounds from the VOC analysis (EPA Method 8260):

- Acetone
- Chloroethane
- 1,1-Dichloroethane (1,1-DCA)
- 1,1-Dichloroethene (1,1-DCE)
- 1,1,1-Trichloroethane (1,1,1-TCA)
- Vinyl Chloride

Quality Assurance/Quality Control (QA/QC) sampling included VOC analyses of an equipment blank (Equip-1) from the decontaminated sampling pump, a duplicate groundwater sample (DUP-1) from shallow monitoring well DW-04, and a trip blank (Trip Blank). The analytical results for the Equipment Blank and the Trip Blank were below laboratory reporting limits for all parameters. The analytical results for the monitoring well DW-04 and DUP-1

sample were below laboratory reporting limits for all parameters except 1,1-DCE. The concentration of 1,1-DCE in sample DW-04 was 5.6 µg/L (micro-grams per liter), while the concentration DUP-1 was 5.0 µg/L. The equipment blank results were below laboratory reporting limits for all parameters.

The groundwater analytical data from the July 2015 sampling event is summarized in **Table 2**. On April 1, 2013 the North Carolina Department of Environment and Natural Resources raised the 2L Standard (15A NCAC 02L.0202 Groundwater Standards) for 1,1-DCE from 7 µg/L to 350 µg/L. The table shows that 1,1-DCE was detected in monitoring wells DW-02, DW-04, DW-05, MW-01, MW-02, MW-07, and MW-12 at concentrations above the laboratory reporting limit, but below the 2L Standard. Vinyl chloride was detected in the groundwater sample collected from shallow monitoring wells MW-02BR and MW-12 at a concentration exceeding the 2L Standard. No other detections of vinyl chloride were reported for any other samples. It should be noted that the laboratory reporting limit for vinyl chloride is 1.0 µg/L, which is greater than the 2L Standard of 0.03 µg/L. Therefore, groundwater samples with vinyl chloride concentrations reported below the laboratory reporting limit could potentially contain levels above the 2L Standard. 1,1-DCA was detected in groundwater samples collected from monitoring wells DW-05, MW-01, and MW-07 at concentrations above the laboratory reporting limit, but below the 2L Standard. No additional VOCs were detected at concentrations above the laboratory reporting limits. The laboratory analytical report and chain-of-custody record are included in **Appendix C**. Groundwater sampling records are included in **Appendix D**. Historical groundwater analytical data are summarized in **Appendix E**.

Evaluation of Concentration Over Time

Concentration over time graphs are included as **Figures 3A** through **8** which include shallow monitoring wells MW-01, MW-06, and MW-12, and deep monitoring wells DW-02, DW-04, and DW-05. Although the concentration of vinyl chloride in monitoring well MW-02BR has exceeded the 2L Standard for two sampling periods, a graph of the concentration versus time was not included for this well due to a small data set since installation of this well in 2013. Note that values reported by the laboratory as “below laboratory reporting limit” are plotted as zero on the graphs. The shallow and deep aquifer historical results are discussed below.

Shallow Aquifer Concentrations Over Time

Interpretation of the shallow groundwater data over time (**Figures 3A** through **5B**) indicates that concentrations of 1,1-DCA, 1,1-DCE, and vinyl chloride detected in the shallow aquifer have generally decreased over time. Based on the July 2015 analytical results, 1,1-DCA was not detected in the shallow aquifer wells at a concentration above the 2L Standard. **Figure 3A** shows that 1,1-DCA concentrations have been below the 2L Standard in monitoring well MW-01 since 2009.

Figures 3B, 4, and **5A** display the concentrations of 1,1-DCE in shallow monitoring wells MW-01, MW-06, and MW-12, respectively. Laboratory analytical results indicate that 1,1-DCE was detected below the 2L Standard in shallow monitoring wells MW-01, MW-06, and MW-12 in July 2015. As shown on **Figure 5B**, vinyl chloride concentrations in monitoring well MW-12 have exceeded the 2L Standard dating back to 2006, but concentrations show a decreasing trend over time. Vinyl chloride was detected in shallow monitoring wells MW-02BR at a concentration of 1.7 µg/L (verses 2.0 ug/L in 2014) and MW-12 at a concentration of 6.1 µg/L (verses 6.7 ug/L in 2014), above the 2L Standard. The conditions observed in the shallow aquifer are indicative of ongoing degradation of the parent compound 1,1,1-TCA.

Deep Aquifer Concentrations Over Time

No constituents were detected in deep monitoring wells in excess of 2L Standards in the 2015 sampling. No exceedances of current 2L Standards have been detected in the deep wells since 2010. Interpretation of **Figures 6A** through **6C** indicates that concentrations of 1,1-DCA, 1,1-DCE, and vinyl chloride detected in groundwater samples collected from deep monitoring well DW-02 [screened from 31 to 33.5 feet below ground surface (ft bgs)] have generally decreased over time. 1,1-DCA was detected in groundwater sample DW-02 at a concentration below its 2L Standard for the first time in 2011 (**Figure 6A**), and the concentration has decreased further in subsequent years. The concentration of 1,1-DCE in deep monitoring well DW-02 dropped below the 2L Standard in 2013 and has decreased since its peak concentration in 2010 (**Figure 6B**). In addition, vinyl chloride concentrations detected in deep monitoring well DW-02 have decreased from 2.2 µg/L in 2010 to remain below the laboratory reporting limit (<1.0 µg/L) since 2011 (**Figure 6C**).

Concentrations of 1,1-DCE in deep monitoring well DW-04 [screened from 55 to 60 ft bgs] had remained relatively stable and below the 2L Standard from 2006 to 2010 (**Figure 7)**. However, the concentration of 1,1-DCE increased from 4.7 µg/L in 2010 to 17.8 µg/L in 2011. Since this peak in 2011, the concentrations decreased to 5.6 µg/L in 2015, remaining below the 2L standard.

As shown on **Figure 8**, deep groundwater monitoring well DW-05 [screened from 55 to 60 ft bgs] had intermittently exhibited concentrations of 1,1-DCE above its former 2L Standard of 7 ug/L, but has not been near the current standard of 350 ug/L.

Ongoing degradation of the original contaminant, 1,1,1-TCA is indicated by the presence of the daughter compounds of degradation processes (1,1-DCA, 1,1-DCE, and vinyl chloride) in the deep monitoring wells. The

deep aquifer concentrations over time show that the contaminant mass is degrading and that the limited contaminant mass remaining in the shallow aquifer may not be moving into deeper portions of the aquifer.

5.0 CONCLUSIONS

Based on the field activities and laboratory analytical results, Antea USA of NC concludes that:

- No VOCs were detected at concentrations that exceeded the 2L Standards in shallow monitoring wells MW-01, MW-02, MW-03, MW-04 through MW-11, and MW-13, MW-14, MW-15, nor in deep monitoring wells DW-01 through DW-05.
- 1,1-DCE was above laboratory limits, but was below the 2L Standard, in deep monitoring wells DW-02, DW-04, DW-05, and in shallow monitoring wells MW-01, MW-02, MW-07, and MW-12.
- 1,1-DCA was detected in shallow monitoring wells MW-01, MW-07 and deep monitoring well DW-05 at concentrations below the 2L Standard.
- Vinyl Chloride was detected in the groundwater sample collected from shallow monitoring wells MW-02BR and MW-12 at concentrations that exceeded its 2L Standard.
- Vinyl Chloride was not detected above the Laboratory Detection Limit in any of the other wells.
- VOC concentrations in groundwater at the Site have generally degraded over time, demonstrating that natural attenuation is ostensibly occurring.
- VOC concentrations over time in the deep aquifer show that the contaminant mass is degrading and that the limited contaminant mass remaining in the shallow aquifer may not be moving into deeper portions of the aquifer; it is presumed that natural attenuation is ostensibly occurring.
- The surficial aquifer flows generally toward the west with an area of northerly flow near the property line to the south of the study area. This is consistent with groundwater flow directions inferred from data obtained during previous groundwater gauging events.

6.0 FUTURE WORK

The following tasks will be conducted during the next reporting period:

- Groundwater will be sampled during the second quarter of 2016.
- The integrity of the HWMU cap will be inspected on a semi-annual basis.

7.0 REMARKS

The recommendations contained in this report represent Antea USA of NC professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. The contract between Antea USA of NC and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA of NC client and anyone else specifically identified in writing by Antea USA of NC as a user of this report. Antea USA of NC will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA of NC makes no express or implied warranty as to the contents of this report.

This report was prepared by:

Antea USA of North Carolina, Inc.

September 18, 2015

Barrett McMullan
Project Professional

Date

Reviewed By:

September 18, 2015

Gary C. Ribblett, P.E.
Senior Project Manager

Date

Tables

Table 1 Groundwater Elevation Data
Table 2 Groundwater Analytical Data

TABLE 1
GROUNDWATER ELEVATION DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	TOTAL DEPTH OF WELL (FT bgs)	WATER ELEVATION (FT MSL)
DW-01	7/15/2015	781.30	13.14	59.00	768.16
DW-02	7/15/2015	779.53	9.65	33.50	769.88
DW-03	7/15/2015	783.10	8.00	30.00	775.10
DW-04	7/15/2015	780.00	9.99	60.00	770.01
DW-05	7/15/2015	782.78	12.97	80.00	769.81
MW-01	7/15/2015	779.54	4.96	15.00	774.58
MW-02	7/15/2015	779.66	5.19	15.00	774.47
MW-02BR	7/15/2015	779.47	10.44	20.00	769.03
MW-03	7/15/2015	780.59	7.70	15.00	772.89
MW-04	7/15/2015	783.99	15.74	20.00	768.25
MW-05	7/15/2015	780.41	5.46	20.00	774.95
MW-06	7/15/2015	781.77	7.97	15.00	773.80
MW-07	7/15/2015	778.95	10.17	15.00	768.78
MW-08	7/15/2015	795.81	12.99	20.00	782.82
MW-09	7/15/2015	781.62	8.66	13.00	772.96
MW-10	7/15/2015	783.09	5.22	13.00	777.87
MW-11	7/15/2015	781.85	7.36	18.00	774.49
MW-12	7/15/2015	781.91	9.99	18.00	771.92
MW-13	7/15/2015	780.94	5.71	20.00	775.23
MW-14	7/15/2015	786.31	13.21	20.00	773.10
MW-15	7/15/2015	786.67	24.29	28.30	762.38

TOC - Top of Casing
FT MSL - Feet above Mean Sea Level
FT TOC - Feet below Top of Casing
FT bgs - Feet below ground surface

TABLE 2
GROUNDWATER ANALYTICAL DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

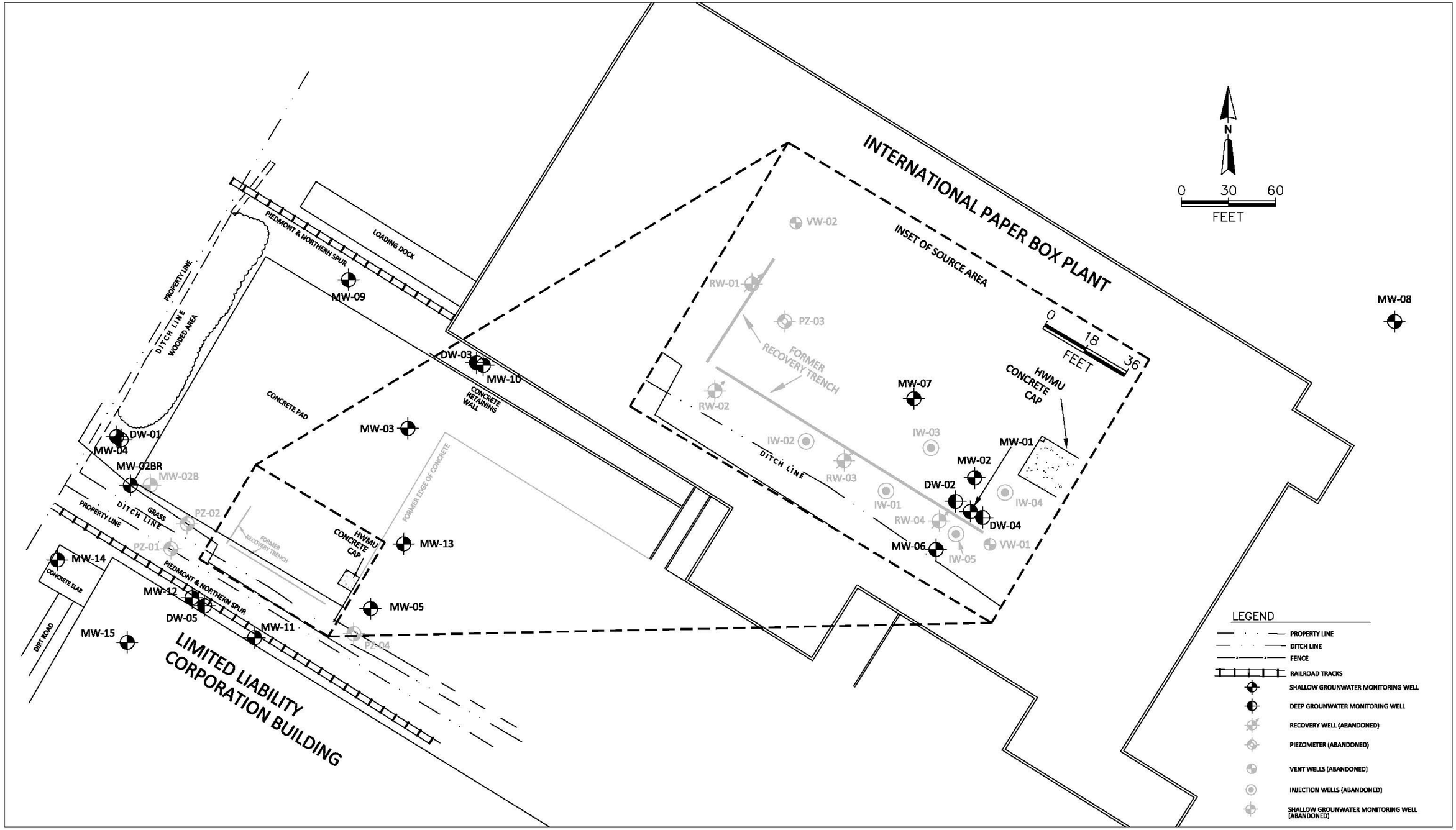
SAMPLE ID	DATE	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Acetone (ug/L)	Chloroethane (ug/L)	Vinyl Chloride (ug/L)
2L Standard		6	350 [1]	6000	3000	0.03
DW-01	7/15/2015	<1.0	<1.0	<25.0	<1.0	<1.0
DW-02	7/16/2015	<1.0	11.3	<25.0	<1.0	<1.0
DW-03	7/16/2015	<1.0	<1.0	<25.0	<1.0	<1.0
DW-04	7/15/2015	<1.0	5.6	<25.0	<1.0	<1.0
DUP-01 (DW-04)	7/15/2015	<1.0	5.0	<25.0	<1.0	<1.0
DW-05	7/15/2015	1.4	7.0	<25.0	<1.0	<1.0
MW-01	7/16/2015	1.3	63.3	<25.0	<1.0	<1.0
MW-02	7/16/2015	<1.0	48.2	<25.0	<1.0	<1.0
MW-02BR	7/15/2015	<1.0	<1.0	<25.0	<1.0	**1.7**
MW-03	7/16/2015	<1.0	<1.0	<25.0	<1.0	<1.0
MW-04	7/15/2015	<1.0	<1.0	<25.0	<1.0	<1.0
MW-05	7/16/2015	<1.0	<1.0	<25.0	<1.0	<1.0
MW-06	7/16/2015	<1.0	<1.0	<25.0	<1.0	<1.0
MW-07	7/16/2015	1.2	25.6	<25.0	<1.0	<1.0
MW-08	7/15/2015	<1.0	<1.0	<25.0	<1.0	<1.0
MW-09	7/15/2015	<1.0	<1.0	<25.0	<1.0	<1.0
MW-10	7/16/2015	<1.0	<1.0	<25.0	<1.0	<1.0
MW-11	7/15/2015	<1.0	<1.0	<25.0	<1.0	<1.0
MW-12	7/15/2015	<1.0	2.9	<25.0	<1.0	**6.1**
MW-13	7/16/2015	<1.0	<1.0	<25.0	<1.0	<1.0
MW-14	7/15/2015	<1.0	<1.0	<25.0	<1.0	<1.0
MW-15	7/16/2015	<1.0	<1.0	<25.0	<1.0	<1.0

Results reported in Micrograms per liter (ug/L)
2L Standard - North Carolina Administrative Code 2L Groundwater Quality Standard
< - Not detected at or above the laboratory reporting limit
Bold - Concentration is greater than the 2L Standard

[1] On April 1, 2013 the North Carolina Department of Environment and Natural Resources raised the 2L Standard for 1,1-DCE to 350 µg/L. 1,1-Dichloroethylene (vinylidene chloride, or 1,1 DCE) was adopted by the Environmental Management Commision in accordance with 15A NCAC 02L .0202 (f) and is above the federal MCL. Where a private drinking water well or public water system is impacted by 1,1 DCE, the applicable standard is 7 ug/L, in accordance with 15A NCAC 02L .0202. [Note: No private drinking water well or public water system is impacted at this site.]

Figures

Figure 1	Site Map
Figure 2	Shallow Potentiometric Map
Figure 3A	Concentration Over Time – 1,1-DCA in MW-01
Figure 3B	Concentration Over Time – 1,1-DCE in MW-01
Figure 4	Concentration Over Time – 1,1-DCE in MW-06
Figure 5A	Concentration Over Time – 1,1-DCE in MW-12
Figure 5B	Concentration Over Time – Vinyl Chloride in MW-12
Figure 6A	Concentration Over Time – 1,1-DCA in DW-02
Figure 6B	Concentration Over Time – 1,1-DCE in DW-02
Figure 6C	Concentration Over Time – Vinyl Chloride in DW-02
Figure 7	Concentration Over Time – 1,1-DCE in DW-04
Figure 8	Concentration Over Time – 1,1-DCE in DW-05



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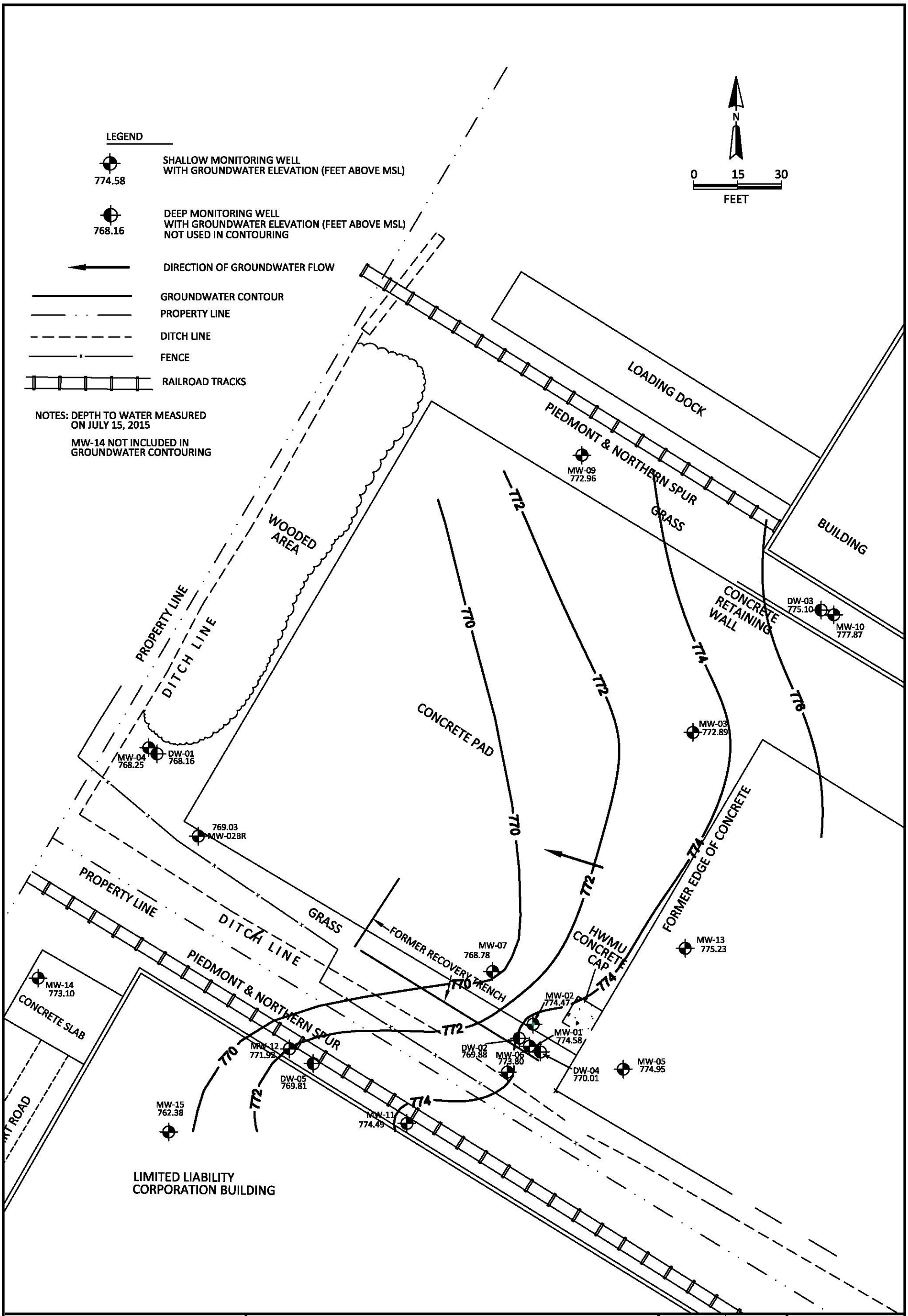
TITLE:
SITE MAP
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA

DWN: ADU	DES.:	PROJECT NO.: 5E0809329P
CHKD: BM	APPD: GR	
DATE: 08/01/13	REV.:	FIGURE NO.: 1



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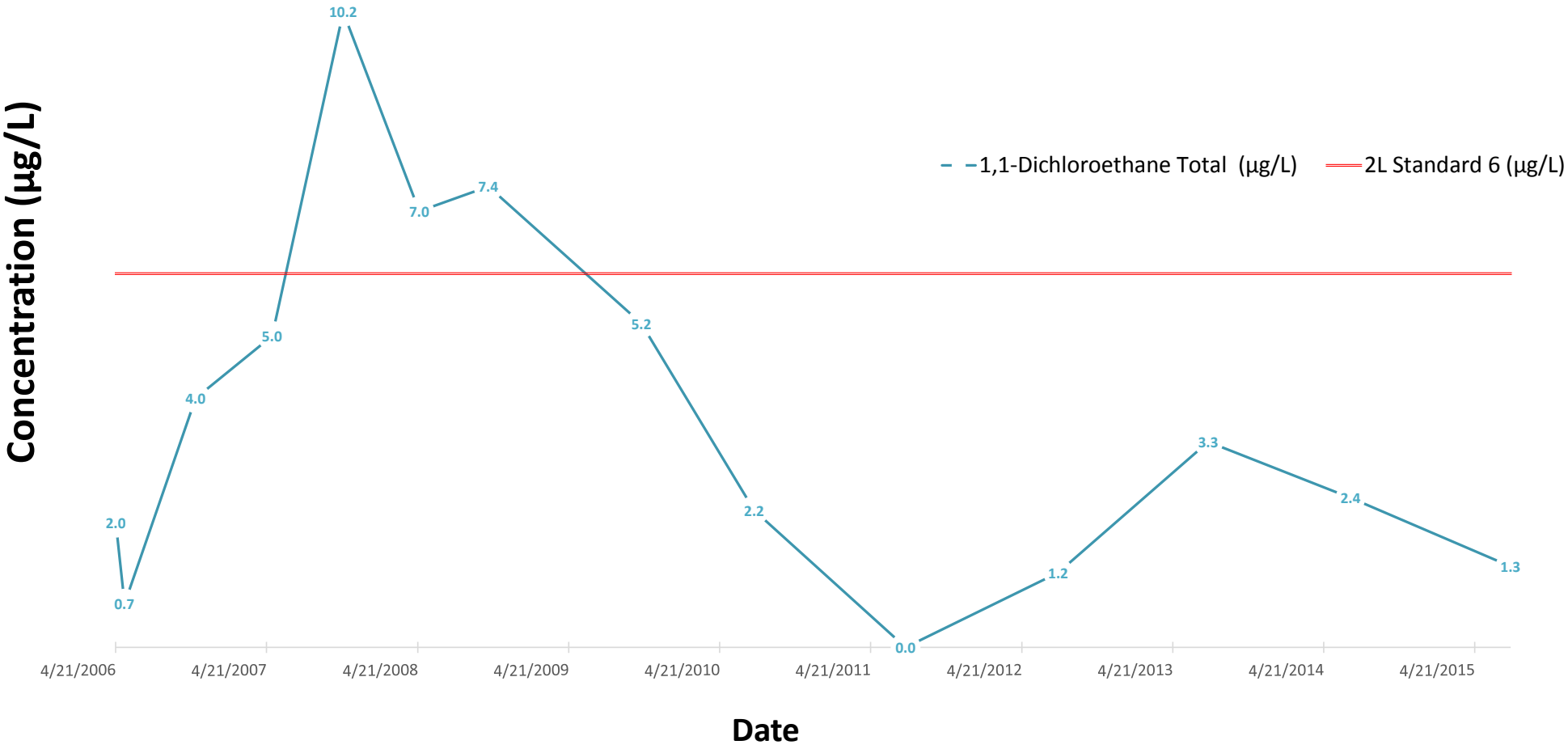
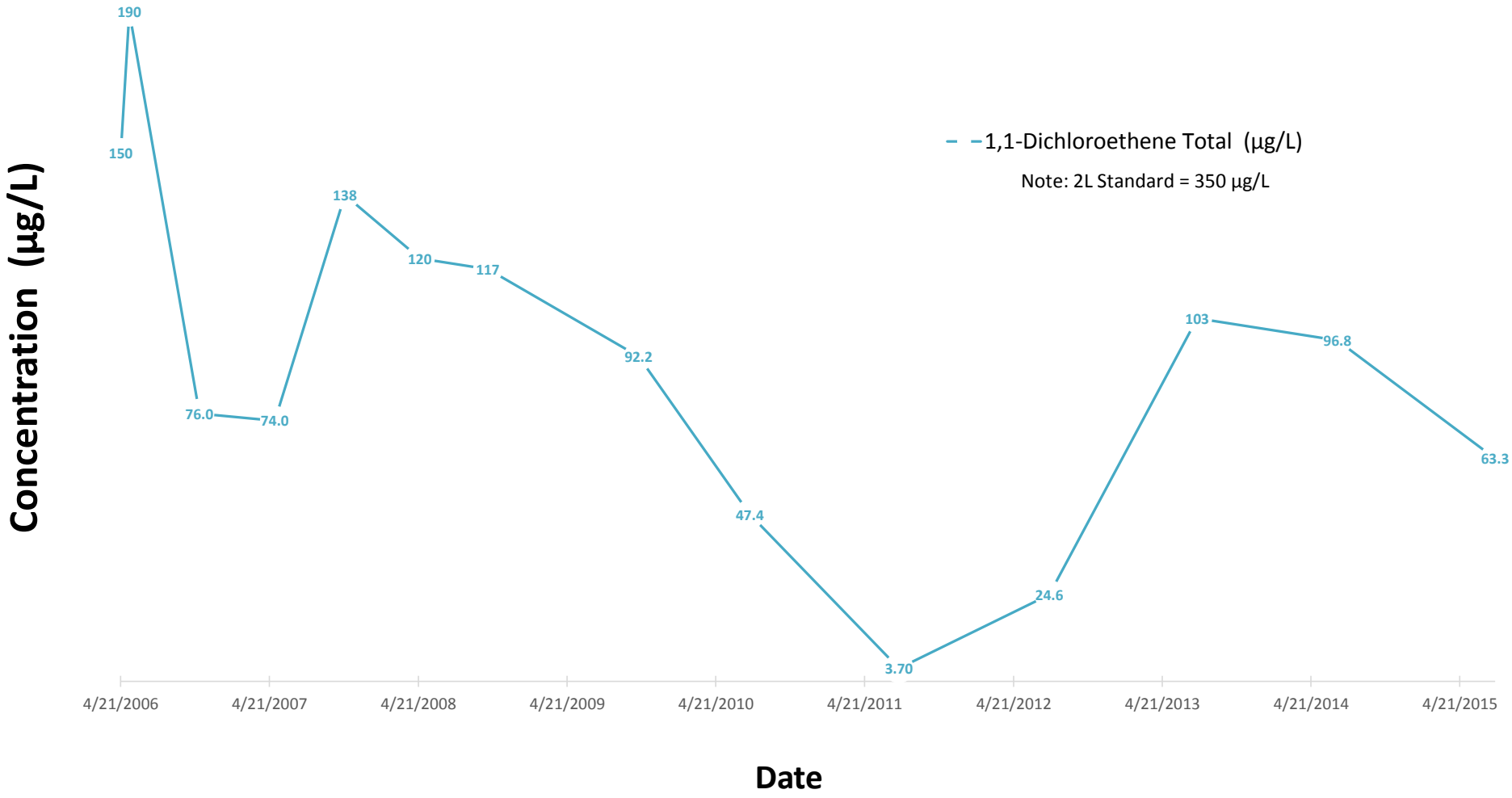
TITLE:
POTENTIOMETRIC MAP – JULY 15, 2015
INTERNATIONAL PAPER
CHARLOTTE, NORTH CAROLINA

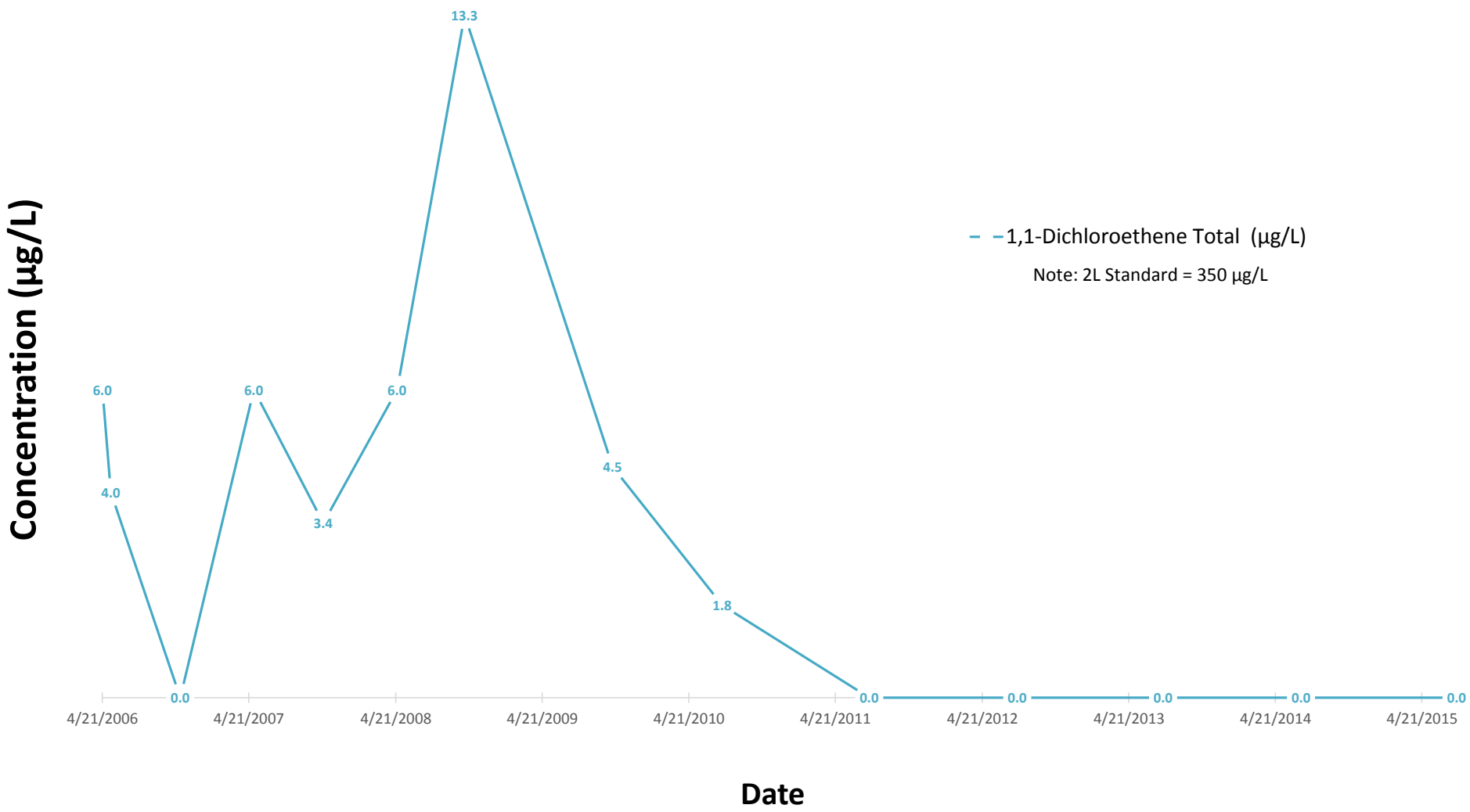
DWN: DR	DES.:	PROJECT NO.: 5E0809329P
CHKD: BM	APPD: GR	FIGURE NO.: 2
DATE: 7/28/15	REV.:	



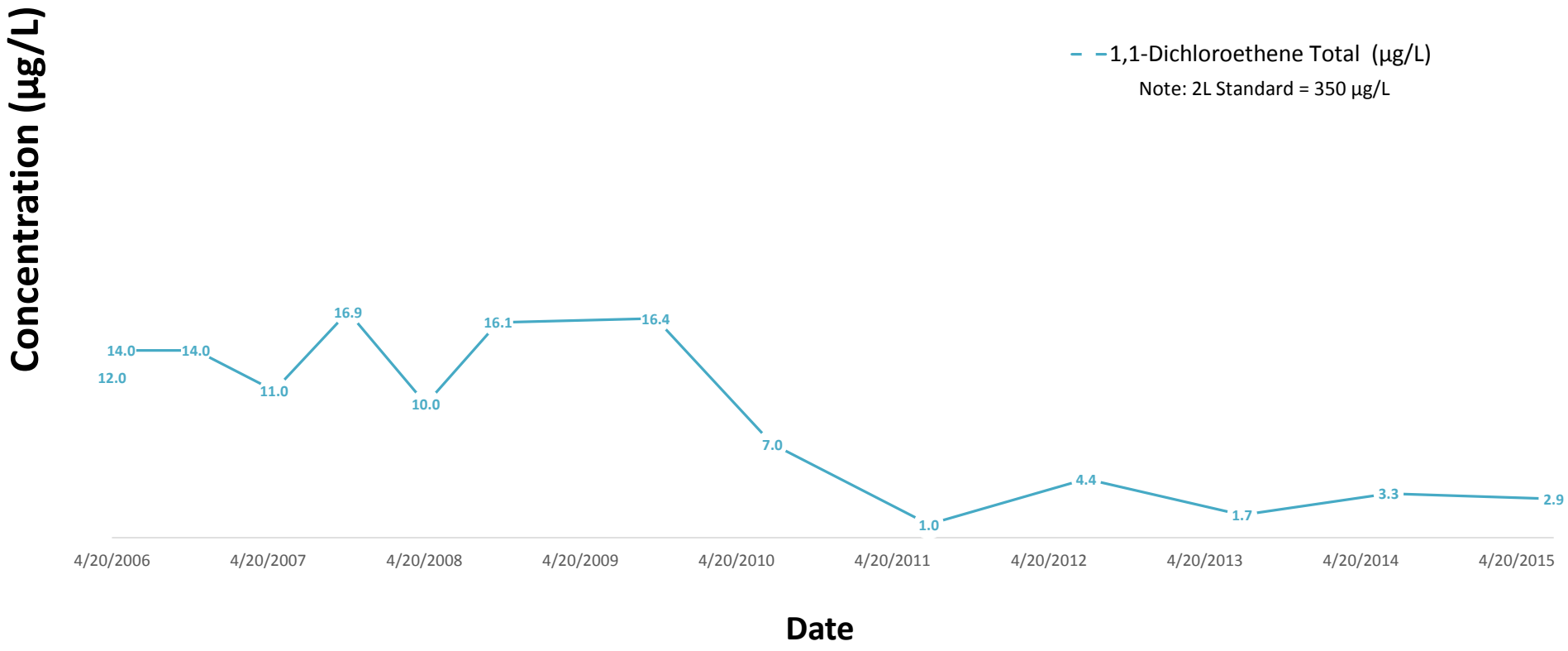
antea group	TITLE: CONCENTRATION OVER TIME 1,1-DCA IN MW-01 INTERNATIONAL PAPER BOX PLANT CHARLOTTE, NORTH CAROLINA	DWN: AK	DES.:	PROJECT NO: 5E080-9329-P
		CHKD: BM	APPD: GR	FIGURE NO: 3A
		DATE 7/30/2015	REV.:	



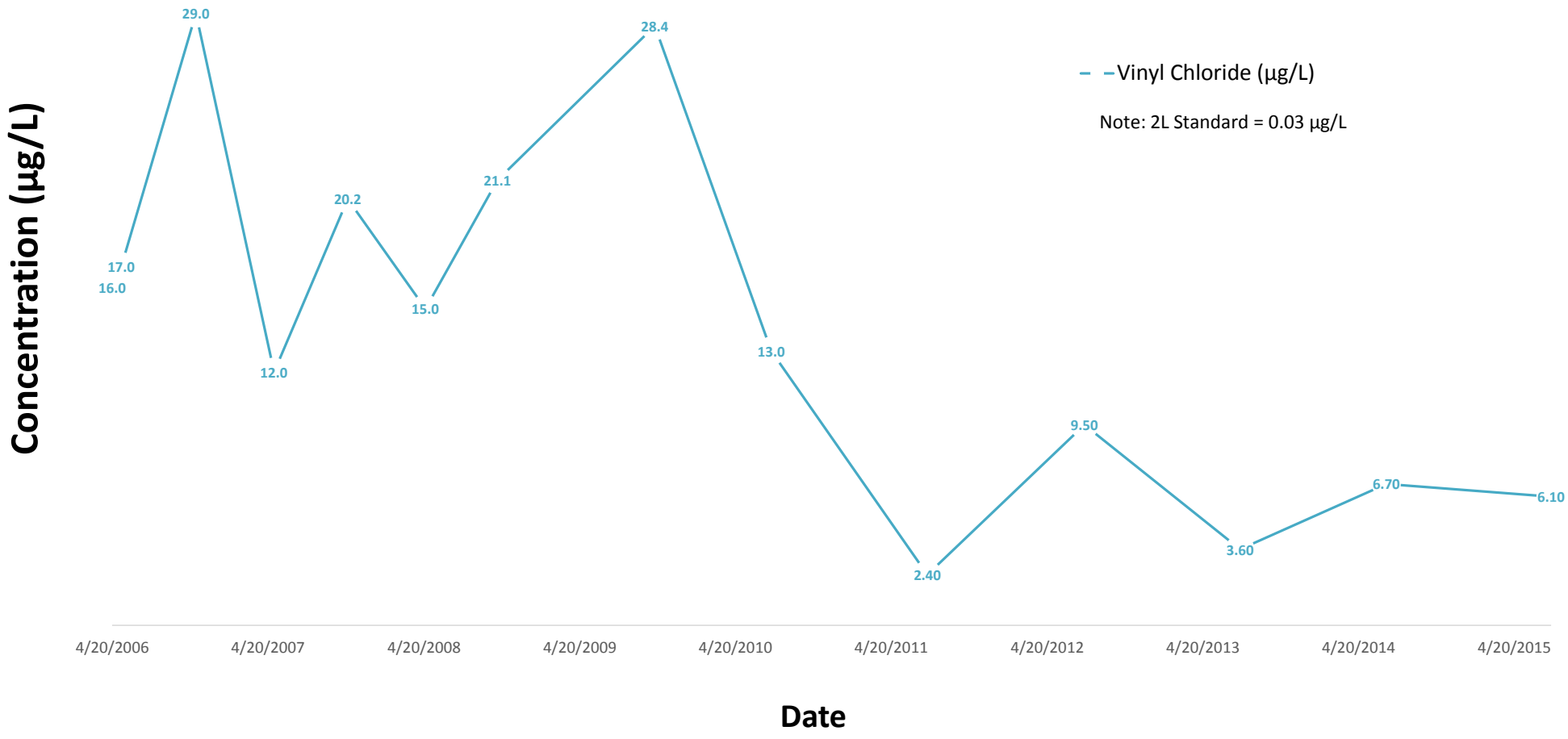
anteagroup	TITLE: CONCENTRATION OVER TIME 1,1-DCE IN MW-01 INTERNATIONAL PAPER BOX PLANT CHARLOTTE, NORTH CAROLINA	DWN: AK CHKD: BM DATE 7/30/2015	DES.: APPD: GR REV.:	PROJECT NO: 5E080-9329-P FIGURE NO: 3B



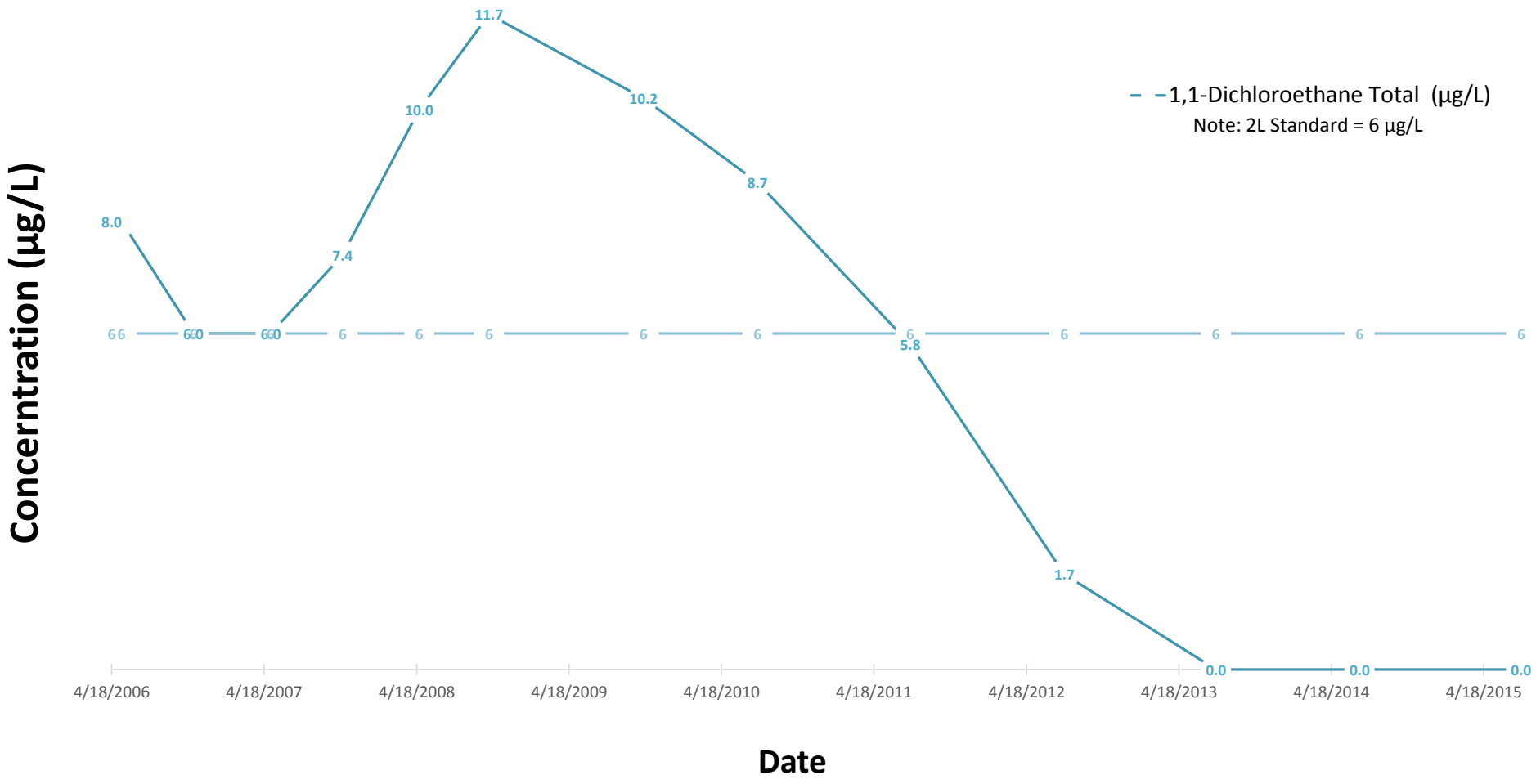
anteagroup	TITLE: CONCENTRATION OVER TIME 1,1-DCE IN MW-06 INTERNATIONAL PAPER BOX PLANT CHARLOTTE, NORTH CAROLINA	DWN: AK CHKD: BM DATE 7/30/2015	DES.: APPD: GR REV.:	PROJECT NO: 5E080-9329-P FIGURE NO: 4



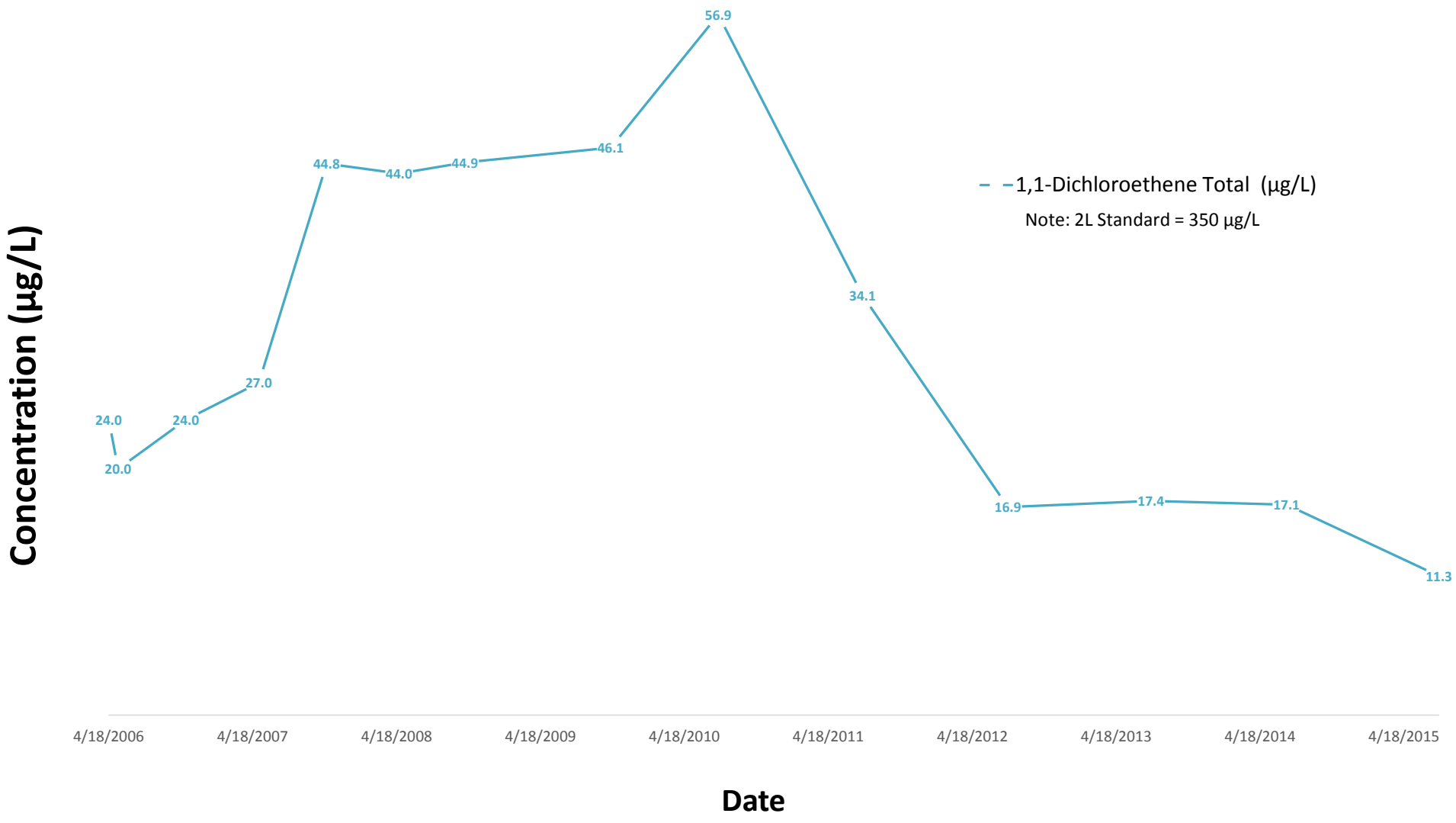
anteagroup	TITLE: CONCENTRATION OVER TIME 1,1-DCE IN MW-12 INTERNATIONAL PAPER BOX PLANT CHARLOTTE, NORTH CAROLINA	DWN: AK	DES.:	PROJECT NO: 5E080-9329-P
		CHKD: BM	APPD: GR	FIGURE NO: 5A
		DATE 7/30/2015	REV.:	



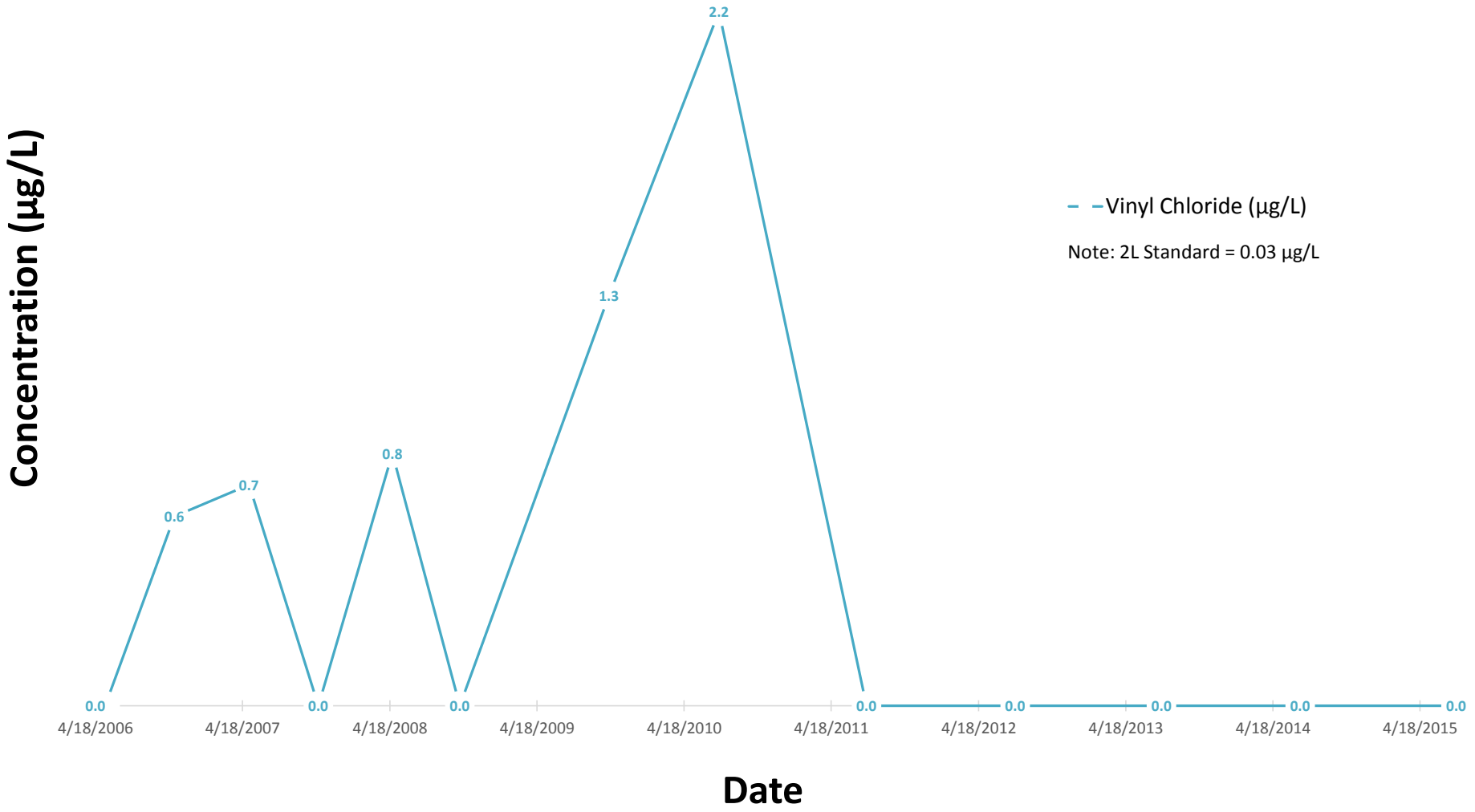
anteagroup	TITLE: CONCENTRATION OVER TIME VINYL CHLORIDE IN MW-12 INTERNATIONAL PAPER BOX PLANT CHARLOTTE, NORTH CAROLINA	DWN: AK	DES.:	PROJECT NO: 5E080-9329-P
		CHKD: BM	APPD: GR	FIGURE NO: 5B
		DATE 7/30/2015	REV.:	



anteagroup	TITLE: CONCENTRATION OVER TIME 1,1-DCA IN DW-02 INTERNATIONAL PAPER BOX PLANT CHARLOTTE, NORTH CAROLINA	DWN: AK CHKD: BM DATE 7/30/2015	DES.: APPD: GR REV.:	PROJECT NO: 5E080-9329-P FIGURE NO: 6A

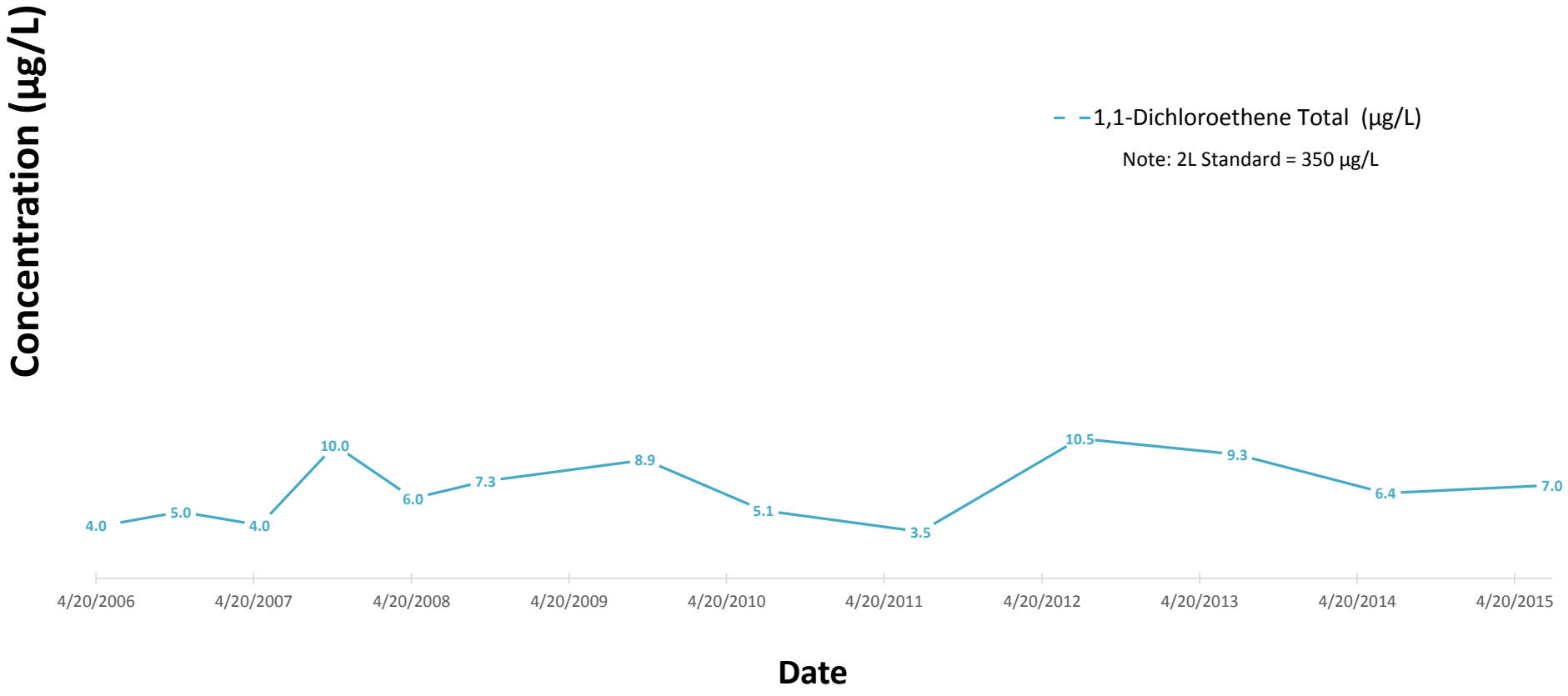


anteagroup	TITLE: CONCENTRATION OVER TIME 1,1-DCE IN DW-02 INTERNATIONAL PAPER BOX PLANT CHARLOTTE, NORTH CAROLINA	DWN: AK CHKD: BM DATE 7/30/2015	DES.: APPD: GR REV.:	PROJECT NO: 5E080-9329-P FIGURE NO: 6B



anteagroup	TITLE: CONCENTRATION OVER TIME VINYL CHLORIDE IN DW-02 INTERNATIONAL PAPER BOX PLANT CHARLOTTE, NORTH CAROLINA	DWN: AK	DES.:	PROJECT NO: 5E080-9329-P
		CHKD: BM	APPD: GR	FIGURE NO: 6C
		DATE 7/30/2015	REV.:	

anteagroup	TITLE: CONCENTRATION OVER TIME 1,1-DCE IN DW-04 INTERNATIONAL PAPER BOX PLANT CHARLOTTE, NORTH CAROLINA	DWN: AK	DES.:	PROJECT NO: 5E080-9329-P
		CHKD: BM	APPD: GR	FIGURE NO: 7
		DATE 7/30/2015	REV.:	



anteagroup	TITLE: CONCENTRATION OVER TIME 1,1-DCE IN DW-05 INTERNATIONAL PAPER BOX PLANT CHARLOTTE, NORTH CAROLINA	DWN: AK	DES.:	PROJECT NO: 5E080-9329-P
		CHKD: BM	APPD: GR	FIGURE NO: 8
		DATE 7/30/2015	REV.:	

Appendix A

Historical Groundwater Elevation Data

APPENDIX A
HISTORICAL GROUNDWATER ELEVATION DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
DW-01	9/2/1992	781.31	14.73	766.58
DW-01	10/7/1992	781.31	11.41	769.90
DW-01	10/21/1992	781.31	11.98	769.33
DW-01	11/24/1992	781.31	10.70	770.61
DW-01	12/18/1992	781.31	9.77	771.54
DW-01	1/25/1993	781.31	8.16	773.15
DW-01	3/1/1993	781.31	7.95	773.36
DW-01	3/29/1993	781.31	7.27	774.04
DW-01	4/29/1993	781.31	7.62	773.69
DW-01	5/20/1993	781.31	8.37	772.94
DW-01	6/10/1993	781.31	9.50	771.81
DW-01	7/14/1993	781.31	11.83	769.48
DW-01	7/23/1993	781.31	12.13	769.18
DW-01	8/10/1993	781.31	12.40	768.91
DW-01	8/17/1993	781.31	14.75	766.56
DW-01	9/10/1993	781.31	13.34	767.97
DW-01	10/19/1993	781.31	14.14	767.17
DW-01	11/30/1993	781.31	13.41	767.90
DW-01	1/19/1994	781.31	11.75	769.56
DW-01	2/15/1994	781.31	10.90	770.41
DW-01	3/8/1994	781.31	10.24	771.07
DW-01	4/19/1994	781.31	9.68	771.63
DW-01	5/31/1994	781.31	11.05	770.26
DW-01	6/24/1994	781.31	11.78	769.53
DW-01	7/20/1994	781.31	11.59	769.72
DW-01	8/18/1994	781.31	11.73	769.58
DW-01	9/15/1994	781.31	11.97	769.34
DW-01	11/1/1994	781.31	12.15	769.16
DW-01	12/21/1994	781.31	11.83	769.48
DW-01	1/31/1995	781.31	10.91	770.40
DW-01	2/7/1995	781.31	9.62	771.69
DW-01	4/19/1995	781.31	9.85	771.46
DW-01	5/23/1995	781.31	8.44	772.87
DW-01	6/15/1995	781.31	8.39	772.92
DW-01	7/6/1995	781.31	9.85	771.46
DW-01	8/4/1995	781.31	11.26	770.05
DW-01	9/18/1995	781.31	14.44	766.87
DW-01	10/10/1995	781.31	12.39	768.92
DW-01	11/9/1995	781.31	11.86	769.45
DW-01	12/14/1995	781.31	11.52	769.79
DW-01	1/5/1996	781.31	10.88	770.43
DW-01	2/16/1996	781.31	9.11	772.20
DW-01	3/21/1996	781.31	9.05	772.26
DW-01	4/19/1996	781.31	9.01	772.30
DW-01	5/8/1996	781.31	8.22	773.09
DW-01	6/7/1996	781.31	9.57	771.74
DW-01	7/19/1996	781.31	6.88	774.43
DW-01	8/8/1996	781.31	6.91	774.40
DW-01	9/5/1996	781.31	6.84	774.47
DW-01	10/16/1996	781.31	6.71	774.60
DW-01	11/14/1996	781.31	12.26	769.05
DW-01	12/3/1996	781.31	11.93	769.38
DW-01	1/7/1997	781.31	11.34	769.97
DW-01	2/25/1997	781.31	9.42	771.89
DW-01	3/17/1997	781.31	9.61	771.70
DW-01	4/9/1997	781.31	9.68	771.63

APPENDIX A
HISTORICAL GROUNDWATER ELEVATION DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
DW-01	5/15/1997	781.31	10.13	771.18
DW-01	6/16/1997	781.31	10.78	770.53
DW-01	8/5/1997	781.31	9.81	771.50
DW-01	8/25/1997	781.31	13.29	768.02
DW-01	9/11/1997	781.31	13.94	767.37
DW-01	10/10/1997	781.31	13.71	767.60
DW-01	11/18/1997	781.31	12.71	768.60
DW-01	12/18/1997	781.31	12.85	768.46
DW-01	1/30/1998	781.31	9.49	771.82
DW-01	2/26/1998	781.31	9.15	772.16
DW-01	5/18/1998	781.31	9.22	772.09
DW-01	12/21/1998	781.31	13.64	767.67
DW-01	1/7/1999	781.31	11.95	769.36
DW-01	5/6/1999	781.31	12.19	769.12
DW-01	5/6/1999	781.31	10.89	770.42
DW-01	5/19/1999	781.31	11.00	770.31
DW-01	6/21/1999	781.31	12.08	769.23
DW-01	7/15/1999	781.31	12.27	769.04
DW-01	11/9/1999	781.31	13.61	767.70
DW-01	5/17/2000	781.31	11.38	769.93
DW-01	11/27/2000	781.31	14.97	766.34
DW-01	5/8/2001	781.31	12.36	768.95
DW-01	10/24/2001	781.31	16.11	765.20
DW-01	5/14/2002	781.31	13.22	768.09
DW-01	9/30/2002	781.31	16.38	764.93
DW-01	4/29/2003	781.31	10.28	771.03
DW-01	10/13/2003	781.31	10.47	770.84
DW-01	4/7/2004	781.31	9.30	772.01
DW-01	10/11/2004	781.31	11.35	769.96
DW-01	6/6/2005	781.31	10.26	771.05
DW-01	10/11/2005	781.31	13.50	767.81
DW-01	2/22/2006	781.30	10.51	770.79
DW-01	4/18/2006	781.30	10.78	770.52
DW-01	5/10/2006	781.30	11.06	770.24
DW-01	10/31/2006	781.30	13.42	767.88
DW-01	11/20/2006	781.30	11.16	770.14
DW-01	5/2/2007	781.30	9.55	771.75
DW-01	10/22/2007	781.30	14.66	766.64
DW-01	4/23/2008	781.30	11.52	769.78
DW-01	10/8/2008	781.30	13.34	767.96
DW-01	10/13/2009	781.30	12.98	768.32
DW-01	7/12/2010	781.30	12.33	768.97
DW-01	7/13/2010	781.30	12.18	769.12
DW-01	7/13/2011	781.30	11.97	769.33
DW-01	7/16/2012	781.30	13.43	767.87
DW-01	7/15/2013	781.30	10.62	770.68
DW-01	6/24/2014	781.30	11.02	770.28
DW-01	7/15/2015	781.30	13.14	768.16
DW-02	10/21/1992	779.53	7.29	772.24
DW-02	11/24/1992	779.53	6.51	773.02
DW-02	12/18/1992	779.53	5.10	774.43
DW-02	1/25/1993	779.53	4.86	774.67
DW-02	3/1/1993	779.53	4.43	775.10
DW-02	3/29/1993	779.53	3.75	775.78
DW-02	4/29/1993	779.53	4.53	775.00
DW-02	5/20/1993	779.53	5.05	774.48

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HISTORICAL GROUNDWATER ELEVATION DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
DW-02	6/10/1993	779.53	5.92	773.61
DW-02	7/14/1993	779.53	8.29	771.24
DW-02	7/23/1993	779.53	8.70	770.83
DW-02	8/10/1993	779.53	9.02	770.51
DW-02	8/17/1993	779.53	9.33	770.20
DW-02	9/10/1993	779.53	9.94	769.59
DW-02	10/19/1993	779.53	10.78	768.75
DW-02	11/30/1993	779.53	9.83	769.70
DW-02	1/19/1994	779.53	8.17	771.36
DW-02	2/15/1994	779.53	7.26	772.27
DW-02	3/8/1994	779.53	6.49	773.04
DW-02	4/19/1994	779.53	6.12	773.41
DW-02	5/31/1994	779.53	7.14	772.39
DW-02	6/24/1994	779.53	8.00	771.53
DW-02	7/20/1994	779.53	7.89	771.64
DW-02	8/18/1994	779.53	8.03	771.50
DW-02	9/15/1994	779.53	8.43	771.10
DW-02	11/1/1994	779.53	8.71	770.82
DW-02	12/21/1994	779.53	8.16	771.37
DW-02	12/21/1994	779.53	8.16	771.37
DW-02	1/31/1995	779.53	6.89	772.64
DW-02	2/7/1995	779.53	6.94	772.59
DW-02	4/19/1995	779.53	6.33	773.20
DW-02	5/23/1995	779.53	5.92	773.61
DW-02	6/15/1995	779.53	6.18	773.35
DW-02	7/6/1995	779.53	6.06	773.47
DW-02	8/4/1995	779.53	7.33	772.20
DW-02	9/18/1995	779.53	8.01	771.52
DW-02	10/10/1995	779.53	7.65	771.88
DW-02	11/9/1995	779.53	7.14	772.39
DW-02	12/14/1995	779.53	7.33	772.20
DW-02	1/5/1996	779.53	7.12	772.41
DW-02	2/16/1996	779.53	5.93	773.60
DW-02	3/21/1996	779.53	5.72	773.81
DW-02	4/19/1996	779.53	5.65	773.88
DW-02	5/8/1996	779.53	4.36	775.17
DW-02	6/7/1996	779.53	6.45	773.08
DW-02	7/19/1996	779.53	7.74	771.79
DW-02	8/8/1996	779.53	7.83	771.70
DW-02	9/5/1996	779.53	7.63	771.90
DW-02	10/16/1996	779.53	7.43	772.10
DW-02	11/14/1996	779.53	8.58	770.95
DW-02	12/3/1996	779.53	8.86	770.67
DW-02	1/7/1997	779.53	8.44	771.09
DW-02	2/25/1997	779.53	6.22	773.31
DW-02	3/17/1997	779.53	6.61	772.92
DW-02	4/9/1997	779.53	6.51	773.02
DW-02	5/15/1997	779.53	7.08	772.45
DW-02	6/16/1997	779.53	7.32	772.21
DW-02	8/5/1997	779.53	8.11	771.42
DW-02	8/25/1997	779.53	9.89	769.64
DW-02	9/11/1997	779.53	10.51	769.02
DW-02	10/10/1997	779.53	10.36	769.17
DW-02	11/18/1997	779.53	8.99	770.54
DW-02	12/18/1997	779.53	9.38	770.15
DW-02	1/30/1998	779.53	5.89	773.64

APPENDIX A
HISTORICAL GROUNDWATER ELEVATION DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
DW-02	2/26/1998	779.53	6.02	773.51
DW-02	5/18/1998	779.53	6.06	773.47
DW-02	12/21/1998	779.53	9.78	769.75
DW-02	1/7/1999	779.53	8.16	771.37
DW-02	5/6/1999	779.53	7.36	772.17
DW-02	5/6/1999	779.53	7.35	772.18
DW-02	5/19/1999	779.53	7.29	772.24
DW-02	6/21/1999	779.53	8.37	771.16
DW-02	7/15/1999	779.53	8.50	771.03
DW-02	11/9/1999	779.53	9.94	769.59
DW-02	5/17/2000	779.53	7.73	771.80
DW-02	11/27/2000	779.53	11.25	768.28
DW-02	5/8/2001	779.53	8.72	770.81
DW-02	10/24/2001	779.53	12.44	767.09
DW-02	5/14/2002	779.53	9.55	769.98
DW-02	9/30/2002	779.53	11.80	767.73
DW-02	4/29/2003	779.53	5.93	773.60
DW-02	10/13/2003	779.53	6.65	772.88
DW-02	4/7/2004	779.53	5.84	773.69
DW-02	10/11/2004	779.53	7.68	771.85
DW-02	6/6/2005	779.53	6.23	773.30
DW-02	10/11/2005	779.53	9.89	769.64
DW-02	2/22/2006	779.53	6.74	772.79
DW-02	4/18/2006	779.53	7.16	772.37
DW-02	5/10/2006	779.53	7.46	772.07
DW-02	10/31/2006	779.53	8.03	771.50
DW-02	11/20/2006	779.53	7.41	772.12
DW-02	5/2/2007	779.53	5.89	773.64
DW-02	6/14/2007	779.53	7.90	771.63
DW-02	10/22/2007	779.53	11.62	767.91
DW-02	4/23/2008	779.53	8.06	771.47
DW-02	10/8/2008	779.53	9.81	769.72
DW-02	10/13/2009	779.53	9.46	770.07
DW-02	7/12/2010	779.53	8.70	770.83
DW-02	7/13/2010	779.53	8.47	771.06
DW-02	7/13/2011	779.53	8.01	771.52
DW-02	7/16/2012	779.53	10.01	769.52
DW-02	7/15/2013	779.53	8.25	771.28
DW-02	6/24/2014	779.53	10.86	768.67
DW-02	7/15/2015	779.53	9.65	769.88
DW-03	8/10/1993	783.12	10.41	772.71
DW-03	8/17/1993	783.12	11.44	771.68
DW-03	9/10/1993	783.12	8.99	774.13
DW-03	10/19/1993	783.12	9.43	773.69
DW-03	11/30/1993	783.12	8.46	774.66
DW-03	1/19/1994	783.12	7.54	775.58
DW-03	2/15/1994	783.12	6.62	776.50
DW-03	3/8/1994	783.12	5.92	777.20
DW-03	4/19/1994	783.12	5.32	777.80
DW-03	5/31/1994	783.12	7.52	775.60
DW-03	6/24/1994	783.12	5.37	777.75
DW-03	7/20/1994	783.12	5.12	778.00
DW-03	8/18/1994	783.12	5.56	777.56
DW-03	9/15/1994	783.12	11.25	771.87
DW-03	11/1/1994	783.12	6.29	776.83
DW-03	12/21/1994	783.12	8.65	774.47

APPENDIX A
HISTORICAL GROUNDWATER ELEVATION DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
DW-03	1/31/1995	783.12	6.98	776.14
DW-03	2/7/1995	783.12	5.59	777.53
DW-03	4/19/1995	783.12	5.36	777.76
DW-03	5/23/1995	783.12	5.02	778.10
DW-03	6/15/1995	783.12	5.29	777.83
DW-03	7/6/1995	783.12	4.64	778.48
DW-03	8/4/1995	783.12	4.71	778.41
DW-03	9/18/1995	783.12	11.83	771.29
DW-03	10/10/1995	783.12	9.56	773.56
DW-03	11/9/1995	783.12	8.92	774.20
DW-03	12/14/1995	783.12	8.78	774.34
DW-03	1/5/1996	783.12	8.62	774.50
DW-03	2/16/1996	783.12	12.42	770.70
DW-03	3/21/1996	783.12	12.26	770.86
DW-03	4/19/1996	783.12	5.13	777.99
DW-03	5/8/1996	783.12	5.14	777.98
DW-03	6/7/1996	783.12	4.35	778.77
DW-03	7/19/1996	783.12	5.63	777.49
DW-03	8/8/1996	783.12	5.18	777.94
DW-03	9/5/1996	783.12	5.06	778.06
DW-03	10/16/1996	783.12	5.23	777.89
DW-03	11/14/1996	783.12	5.37	777.75
DW-03	12/3/1996	783.12	5.27	777.85
DW-03	1/7/1997	783.12	4.82	778.30
DW-03	2/25/1997	783.12	4.74	778.38
DW-03	3/17/1997	783.12	4.57	778.55
DW-03	4/9/1997	783.12	4.56	778.56
DW-03	5/15/1997	783.12	4.82	778.30
DW-03	6/16/1997	783.12	4.75	778.37
DW-03	8/5/1997	783.12	3.87	779.25
DW-03	8/25/1997	783.12	5.54	777.58
DW-03	9/11/1997	783.12	6.61	776.51
DW-03	10/10/1997	783.12	5.97	777.15
DW-03	11/18/1997	783.12	6.05	777.07
DW-03	12/18/1997	783.12	5.91	777.21
DW-03	1/30/1998	783.12	4.33	778.79
DW-03	2/26/1998	783.12	2.94	780.18
DW-03	5/18/1998	783.12	2.79	780.33
DW-03	12/21/1998	783.12	7.31	775.81
DW-03	1/7/1999	783.12	6.18	776.94
DW-03	5/6/1999	783.12	4.80	778.32
DW-03	5/6/1999	783.12	4.82	778.30
DW-03	5/19/1999	783.12	5.24	777.88
DW-03	6/21/1999	783.12	6.59	776.53
DW-03	7/15/1999	783.12	6.57	776.55
DW-03	11/9/1999	783.12	8.16	774.96
DW-03	5/17/2000	783.12	5.83	777.29
DW-03	11/27/2000	783.12	9.39	773.73
DW-03	5/8/2001	783.12	6.74	776.38
DW-03	10/24/2001	783.12	11.53	771.59
DW-03	5/14/2002	783.12	6.70	776.42
DW-03	9/30/2002	783.12	10.98	772.14
DW-03	4/29/2003	783.12	3.59	779.53
DW-03	10/13/2003	783.12	4.04	779.08
DW-03	4/7/2004	783.12	3.58	779.54
DW-03	10/11/2004	783.12	5.36	777.76

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HISTORICAL GROUNDWATER ELEVATION DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
DW-03	6/6/2005	783.12	4.50	778.62
DW-03	10/11/2005	783.12	7.86	775.26
DW-03	2/22/2006	783.10	4.51	778.59
DW-03	4/18/2006	783.10	5.04	778.06
DW-03	5/10/2006	783.10	5.32	777.78
DW-03	10/31/2006	783.10	5.27	777.83
DW-03	11/20/2006	783.10	4.97	778.13
DW-03	5/2/2007	783.10	3.72	779.38
DW-03	4/23/2008	783.10	5.80	777.30
DW-03	10/8/2008	783.10	7.84	775.26
DW-03	10/13/2009	783.10	7.54	775.56
DW-03	7/12/2010	783.10	6.93	776.17
DW-03	7/13/2010	783.10	6.85	776.25
DW-03	7/13/2011	783.10	6.59	776.51
DW-03	7/16/2012	783.10	8.45	774.65
DW-03	7/15/2013	783.10	4.55	778.55
DW-03	6/25/2014	783.10	5.30	777.80
DW-03	7/16/2015	783.10	8.00	775.10
DW-04	5/23/1995	779.97	7.13	772.84
DW-04	6/15/1995	779.97	7.51	772.46
DW-04	7/6/1995	779.97	6.65	773.32
DW-04	8/3/1995	779.97	8.16	771.81
DW-04	8/4/1995	779.97	8.16	771.81
DW-04	9/18/1995	779.97	8.77	771.20
DW-04	10/10/1995	779.97	8.33	771.64
DW-04	11/9/1995	779.97	7.62	772.35
DW-04	12/14/1995	779.97	7.28	772.69
DW-04	1/5/1996	779.97	7.83	772.14
DW-04	2/16/1996	779.97	6.28	773.69
DW-04	3/21/1996	779.97	6.32	773.65
DW-04	4/19/1996	779.97	6.26	773.71
DW-04	5/8/1996	779.97	5.63	774.34
DW-04	6/7/1996	779.97	6.90	773.07
DW-04	7/19/1996	779.97	8.22	771.75
DW-04	8/8/1996	779.97	8.41	771.56
DW-04	9/5/1996	779.97	8.66	771.31
DW-04	10/16/1996	779.97	8.86	771.11
DW-04	11/14/1996	779.97	9.13	770.84
DW-04	2/25/1997	779.97	9.02	770.95
DW-04	3/17/1997	779.97	6.98	772.99
DW-04	4/9/1997	779.97	6.94	773.03
DW-04	5/15/1997	779.97	7.46	772.51
DW-04	6/16/1997	779.97	7.81	772.16
DW-04	8/5/1997	779.97	8.61	771.36
DW-04	8/25/1997	779.97	10.39	769.58
DW-04	9/11/1997	779.97	11.02	768.95
DW-04	10/10/1997	779.97	10.65	769.32
DW-04	11/18/1997	779.97	9.48	770.49
DW-04	12/18/1997	779.97	9.23	770.74
DW-04	1/30/1998	779.97	6.42	773.55
DW-04	2/26/1998	779.97	6.45	773.52
DW-04	5/18/1998	779.97	6.48	773.49
DW-04	12/21/1998	779.97	10.27	769.70
DW-04	1/7/1999	779.97	8.74	771.23
DW-04	5/6/1999	779.97	7.83	772.14
DW-04	5/6/1999	779.97	7.83	772.14

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HISTORICAL GROUNDWATER ELEVATION DATA
INTERNATIONAL PAPER BOX PLANT
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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
DW-04	5/19/1999	779.97	7.82	772.15
DW-04	6/21/1999	779.97	8.94	771.03
DW-04	7/15/1999	779.97	9.11	770.86
DW-04	11/9/1999	779.97	10.52	769.45
DW-04	5/17/2000	779.97	8.29	771.68
DW-04	11/27/2000	779.97	17.97	762.00
DW-04	5/8/2001	779.97	9.28	770.69
DW-04	10/24/2001	779.97	12.96	767.01
DW-04	5/14/2002	779.97	10.12	769.85
DW-04	9/30/2002	779.97	12.37	767.60
DW-04	4/29/2003	779.97	6.45	773.52
DW-04	10/13/2003	779.97	7.16	772.81
DW-04	4/7/2004	779.97	6.33	773.64
DW-04	10/11/2004	779.97	8.20	771.77
DW-04	6/6/2005	779.97	6.92	773.05
DW-04	10/11/2005	779.97	10.40	769.57
DW-04	2/22/2006	780.00	7.31	772.69
DW-04	4/18/2006	780.00	7.65	772.35
DW-04	5/10/2006	780.00	7.97	772.03
DW-04	10/31/2006	780.00	8.61	771.39
DW-04	11/20/2006	780.00	7.92	772.08
DW-04	5/2/2007	780.00	6.42	773.58
DW-04	6/14/2007	780.00	8.42	771.58
DW-04	10/22/2007	780.00	12.11	767.89
DW-04	4/23/2008	780.00	8.56	771.44
DW-04	10/8/2008	780.00	10.34	769.66
DW-04	10/13/2009	780.00	10.00	770.00
DW-04	7/12/2010	780.00	9.23	770.77
DW-04	7/13/2010	780.00	9.04	770.96
DW-04	7/13/2011	780.00	8.32	771.68
DW-04	7/16/2012	780.00	10.07	769.93
DW-04	7/15/2013	780.00	7.42	772.58
DW-04	6/24/2014	780.00	7.80	772.20
DW-04	7/15/2015	780.00	9.99	770.01
DW-05	5/6/1999	782.82	10.78	772.04
DW-05	5/6/1999	782.82	10.28	772.54
DW-05	5/19/1999	782.82	10.83	771.99
DW-05	6/21/1999	782.82	11.91	770.91
DW-05	7/15/1999	782.82	12.11	770.71
DW-05	11/9/1999	782.82	13.52	769.30
DW-05	5/17/2000	782.82	11.25	771.57
DW-05	11/27/2000	782.82	14.82	768.00
DW-05	5/8/2001	782.82	12.27	770.55
DW-05	10/24/2001	782.82	15.90	766.92
DW-05	5/14/2002	782.82	13.04	769.78
DW-05	9/30/2002	782.82	15.38	767.44
DW-05	4/29/2003	782.82	9.40	773.42
DW-05	10/13/2003	782.82	10.13	772.69
DW-05	4/8/2004	782.82	9.35	773.47
DW-05	10/11/2004	782.82	11.23	771.59
DW-05	6/7/2005	782.82	9.54	773.28
DW-05	10/11/2005	782.82	13.37	769.45
DW-05	2/22/2006	782.78	10.29	772.49
DW-05	4/18/2006	782.78	10.63	772.15
DW-05	5/10/2006	782.78	10.97	771.81
DW-05	10/31/2006	782.78	11.64	771.14

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INTERNATIONAL PAPER BOX PLANT
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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
DW-05	11/20/2006	782.78	0.00	782.78
DW-05	5/2/2007	782.78	9.43	773.35
DW-05	6/14/2007	782.78	11.45	771.33
DW-05	10/22/2007	782.78	15.09	767.69
DW-05	4/23/2008	782.78	11.56	771.22
DW-05	10/8/2008	782.78	13.35	769.43
DW-05	10/13/2009	782.78	13.07	769.71
DW-05	7/12/2010	782.78	12.18	770.60
DW-05	7/13/2010	782.78	12.01	770.77
DW-05	7/13/2011	782.78	11.54	771.24
DW-05	7/16/2012	782.78	13.32	769.46
DW-05	7/15/2013	782.78	10.32	772.46
DW-05	6/24/2014	782.78	10.11	772.67
DW-05	7/15/2015	782.78	12.97	769.81
MW-01	9/2/1992	779.67	3.05	776.62
MW-01	10/7/1992	779.67	2.42	777.25
MW-01	10/21/1992	779.67	3.73	775.94
MW-01	11/24/1992	779.67	2.18	777.49
MW-01	12/18/1992	779.67	1.76	777.91
MW-01	1/25/1993	779.67	1.29	778.38
MW-01	3/1/1993	779.67	0.95	778.72
MW-01	3/29/1993	779.67	0.37	779.30
MW-01	4/29/1993	779.67	1.57	778.10
MW-01	5/20/1993	779.67	1.78	777.89
MW-01	6/10/1993	779.67	3.20	776.47
MW-01	7/14/1993	779.67	5.50	774.17
MW-01	7/23/1993	779.67	5.45	774.22
MW-01	8/10/1993	779.67	4.61	775.06
MW-01	8/17/1993	779.67	5.34	774.33
MW-01	9/10/1993	779.67	6.11	773.56
MW-01	10/19/1993	779.67	7.21	772.46
MW-01	10/19/1993	779.67	7.21	772.46
MW-01	11/30/1993	779.67	4.41	775.26
MW-01	1/19/1994	779.67	2.75	776.92
MW-01	2/15/1994	779.67	1.95	777.72
MW-01	3/8/1994	779.67	2.16	777.51
MW-01	4/19/1994	779.67	2.11	777.56
MW-01	5/31/1994	779.67	3.87	775.80
MW-01	6/24/1994	779.67	4.10	775.57
MW-01	7/20/1994	779.67	2.05	777.62
MW-01	8/18/1994	779.67	2.03	777.64
MW-01	9/15/1994	779.67	3.62	776.05
MW-01	11/1/1994	779.67	4.62	775.05
MW-01	12/21/1994	779.67	3.20	776.47
MW-01	1/31/1995	779.67	1.75	777.92
MW-01	2/7/1995	779.67	2.51	777.16
MW-01	4/19/1995	779.67	3.04	776.63
MW-01	5/23/1995	779.67	3.14	776.53
MW-01	6/15/1995	779.67	3.29	776.38
MW-01	7/6/1995	779.67	NM	NA
MW-01	8/4/1995	779.67	5.62	774.05
MW-01	9/18/1995	779.67	7.01	772.66
MW-01	10/10/1995	779.67	7.93	771.74
MW-01	11/9/1995	779.67	7.61	772.06
MW-01	12/14/1995	779.67	7.73	771.94
MW-01	1/5/1996	779.67	7.04	772.63

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INTERNATIONAL PAPER BOX PLANT
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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-01	2/16/1996	779.67	7.73	771.94
MW-01	3/21/1996	779.67	7.81	771.86
MW-01	4/19/1996	779.67	6.73	772.94
MW-01	5/8/1996	779.67	3.02	776.65
MW-01	6/7/1996	779.67	7.70	771.97
MW-01	7/19/1996	779.67	7.81	771.86
MW-01	8/8/1996	779.67	8.02	771.65
MW-01	9/5/1996	779.67	8.17	771.50
MW-01	10/16/1996	779.67	8.29	771.38
MW-01	11/14/1996	779.67	8.68	770.99
MW-01	12/3/1996	779.67	8.13	771.54
MW-01	1/7/1997	779.67	6.52	773.15
MW-01	2/25/1997	779.67	6.64	773.03
MW-01	3/17/1997	779.67	7.64	772.03
MW-01	4/9/1997	779.67	7.01	772.66
MW-01	5/15/1997	779.67	8.25	771.42
MW-01	6/16/1997	779.67	6.85	772.82
MW-01	8/5/1997	779.67	6.94	772.73
MW-01	8/25/1997	779.67	9.14	770.53
MW-01	9/11/1997	779.67	8.77	770.90
MW-01	10/10/1997	779.67	8.96	770.71
MW-01	11/18/1997	779.67	7.98	771.69
MW-01	12/18/1997	779.67	8.14	771.53
MW-01	1/30/1998	779.67	4.23	775.44
MW-01	2/26/1998	779.67	6.60	773.07
MW-01	5/18/1998	779.67	6.80	772.87
MW-01	12/21/1998	779.67	8.44	771.23
MW-01	1/7/1999	779.67	3.65	776.02
MW-01	5/6/1999	779.67	7.40	772.27
MW-01	5/6/1999	779.67	7.36	772.31
MW-01	5/19/1999	779.67	3.39	776.28
MW-01	6/21/1999	779.67	3.74	775.93
MW-01	7/15/1999	779.67	3.33	776.34
MW-01	11/9/1999	779.67	5.62	774.05
MW-01	5/17/2000	779.67	3.98	775.69
MW-01	11/27/2000	779.67	4.36	775.31
MW-01	5/8/2001	779.67	4.49	775.18
MW-01	10/24/2001	779.67	7.80	771.87
MW-01	5/14/2002	779.67	2.51	777.16
MW-01	10/2/2002	779.67	4.28	775.39
MW-01	4/29/2003	779.67	2.68	776.99
MW-01	10/13/2003	779.67	2.90	776.77
MW-01	4/7/2004	779.67	2.68	776.99
MW-01	10/11/2004	779.67	3.29	776.38
MW-01	6/6/2005	779.67	4.24	775.43
MW-01	10/11/2005	779.67	2.00	777.67
MW-01	2/22/2006	779.54	2.43	777.11
MW-01	4/18/2006	779.54	2.92	776.62
MW-01	5/10/2006	779.54	2.70	776.84
MW-01	10/31/2006	779.54	3.10	776.44
MW-01	11/20/2006	779.54	2.84	776.70
MW-01	5/2/2007	779.54	2.92	776.62
MW-01	6/14/2007	779.54	3.76	775.78
MW-01	10/22/2007	779.54	7.94	771.60
MW-01	4/23/2008	779.54	3.64	775.90
MW-01	10/8/2008	779.54	4.12	775.42

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INTERNATIONAL PAPER BOX PLANT
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ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-01	10/13/2009	779.54	3.72	775.82
MW-01	7/12/2010	779.54	4.44	775.10
MW-01	7/13/2010	779.54	3.42	776.12
MW-01	7/13/2011	779.54	3.27	776.27
MW-01	7/16/2012	779.54	3.70	775.84
MW-01	7/15/2013	779.54	4.13	775.41
MW-01	6/24/2014	779.54	10.72	768.82
MW-01	7/15/2015	779.54	4.96	774.58
MW-02	9/2/1992	779.56	7.84	771.72
MW-02	10/7/1992	779.56	7.84	771.72
MW-02	10/21/1992	779.56	6.40	773.16
MW-02	11/24/1992	779.56	5.78	773.78
MW-02	12/18/1992	779.56	4.76	774.80
MW-02	1/25/1993	779.56	2.48	777.08
MW-02	3/1/1993	779.56	3.25	776.31
MW-02	3/29/1993	779.56	2.56	777.00
MW-02	4/29/1993	779.56	3.49	776.07
MW-02	5/20/1993	779.56	4.11	775.45
MW-02	6/10/1993	779.56	4.47	775.09
MW-02	7/14/1993	779.56	7.00	772.56
MW-02	7/23/1993	779.56	7.33	772.23
MW-02	8/10/1993	779.56	5.85	773.71
MW-02	8/17/1993	779.56	6.36	773.20
MW-02	9/10/1993	779.56	7.52	772.04
MW-02	10/19/1993	779.56	9.60	769.96
MW-02	11/30/1993	779.56	5.45	774.11
MW-02	1/19/1994	779.56	2.99	776.57
MW-02	2/15/1994	779.56	1.95	777.61
MW-02	3/8/1994	779.56	2.43	777.13
MW-02	4/19/1994	779.56	2.38	777.18
MW-02	5/31/1994	779.56	4.66	774.90
MW-02	6/24/1994	779.56	4.40	775.16
MW-02	7/20/1994	779.56	1.35	778.21
MW-02	8/18/1994	779.56	2.25	777.31
MW-02	9/15/1994	779.56	3.97	775.59
MW-02	11/1/1994	779.56	4.37	775.19
MW-02	12/21/1994	779.56	3.48	776.08
MW-02	1/31/1995	779.56	1.30	778.26
MW-02	2/7/1995	779.56	2.61	776.95
MW-02	4/19/1995	779.56	3.03	776.53
MW-02	1/30/1998	779.56	3.59	775.97
MW-02	2/26/1998	779.56	5.40	774.16
MW-02	5/18/1998	779.56	5.65	773.91
MW-02	12/21/1998	779.56	7.60	771.96
MW-02	5/6/1999	779.56	6.16	773.40
MW-02	5/6/1999	779.56	6.14	773.42
MW-02	5/19/1999	779.56	3.29	776.27
MW-02	6/21/1999	779.56	3.50	776.06
MW-02	7/15/1999	779.56	3.04	776.52
MW-02	11/9/1999	779.56	5.35	774.21
MW-02	5/17/2000	779.56	3.84	775.72
MW-02	11/27/2000	779.56	4.28	775.28
MW-02	5/8/2001	779.56	4.40	775.16
MW-02	10/24/2001	779.56	7.66	771.90
MW-02	5/14/2002	779.56	2.53	777.03
MW-02	9/30/2002	779.56	3.54	776.02

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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-02	4/29/2003	779.56	2.44	777.12
MW-02	10/13/2003	779.56	2.72	776.84
MW-02	4/7/2004	779.56	2.69	776.87
MW-02	10/11/2004	779.56	3.25	776.31
MW-02	6/6/2005	779.56	4.03	775.53
MW-02	10/11/2005	779.56	4.00	775.56
MW-02	2/22/2006	779.66	3.35	776.31
MW-02	4/18/2006	779.66	2.85	776.81
MW-02	5/10/2006	779.66	2.43	777.23
MW-02	10/31/2006	779.66	2.83	776.83
MW-02	11/20/2006	779.66	2.70	776.96
MW-02	5/2/2007	779.66	2.85	776.81
MW-02	10/22/2007	779.66	7.03	772.63
MW-02	4/23/2008	779.66	3.63	776.03
MW-02	10/8/2008	779.66	4.11	775.55
MW-02	10/13/2009	779.66	3.06	756.20
MW-02	7/12/2010	779.66	4.45	775.21
MW-02	7/13/2010	779.66	3.51	776.15
MW-02	7/13/2011	779.66	3.39	776.27
MW-02	7/16/2012	779.66	3.51	776.15
MW-02	7/15/2013	779.66	4.65	775.01
MW-02	6/24/2014	779.66	15.00	764.66
MW-02	7/15/2015	779.66	5.19	774.47
MW-02B	6/15/1995	782.67	10.37	772.30
MW-02B	7/6/1995	782.67	10.52	772.15
MW-02B	8/4/1995	782.67	11.81	770.86
MW-02B	9/18/1995	782.67	12.72	769.95
MW-02B	10/10/1995	782.67	12.27	770.40
MW-02B	11/9/1995	782.67	11.04	771.63
MW-02B	12/14/1995	782.67	10.58	772.09
MW-02B	1/5/1996	782.67	10.45	772.22
MW-02B	2/16/1996	782.67	9.67	773.00
MW-02B	3/21/1996	782.67	9.56	773.11
MW-02B	4/19/1996	782.67	9.27	773.40
MW-02B	5/8/1996	782.67	9.03	773.64
MW-02B	6/7/1996	782.67	10.40	772.27
MW-02B	7/19/1996	782.67	11.87	770.80
MW-02B	8/8/1996	782.67	12.51	770.16
MW-02B	9/5/1996	782.67	12.72	769.95
MW-02B	10/16/1996	782.67	12.65	770.02
MW-02B	11/14/1996	782.67	12.94	769.73
MW-02B	12/3/1996	782.67	12.40	770.27
MW-02B	1/7/1997	782.67	11.29	771.38
MW-02B	2/25/1997	782.67	10.21	772.46
MW-02B	3/17/1997	782.67	10.41	772.26
MW-02B	4/9/1997	782.67	10.47	772.20
MW-02B	5/15/1997	782.67	10.93	771.74
MW-02B	6/16/1997	782.67	11.58	771.09
MW-02B	8/5/1997	782.67	12.35	770.32
MW-02B	8/25/1997	782.67	14.05	768.62
MW-02B	9/11/1997	782.67	14.69	767.98
MW-02B	10/10/1997	782.67	14.43	768.24
MW-02B	11/18/1997	782.67	13.55	769.12
MW-02B	12/18/1997	782.67	12.96	769.71
MW-02B	1/30/1998	782.67	10.03	772.64
MW-02B	2/26/1998	782.67	9.96	772.71

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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-02B	5/18/1998	782.67	9.97	772.70
MW-02B	12/21/1998	782.67	14.11	768.56
MW-02B	1/7/1999	782.67	12.68	769.99
MW-02B	5/6/1999	782.67	11.53	771.14
MW-02B	5/6/1999	782.67	11.53	771.14
MW-02B	6/21/1999	782.67	12.74	769.93
MW-02B	7/15/1999	782.67	12.94	769.73
MW-02B	11/9/1999	782.67	14.36	768.31
MW-02B	5/17/2000	782.67	11.99	770.68
MW-02B	11/27/2000	782.67	16.02	766.65
MW-02B	5/8/2001	782.67	12.92	769.75
MW-02B	10/24/2001	782.67	16.64	766.03
MW-02B	5/14/2002	782.67	13.87	768.80
MW-02B	9/30/2002	782.67	16.15	766.52
MW-02B	4/29/2003	782.67	10.06	772.61
MW-02B	10/13/2003	782.67	11.09	771.58
MW-02B	4/7/2004	782.67	10.18	772.49
MW-02B	10/11/2004	782.67	12.02	770.65
MW-02B	10/11/2005	782.67	14.34	768.33
MW-02B	2/22/2006	782.67	10.93	771.74
MW-02B	4/18/2006	782.56	11.37	771.19
MW-02B	5/10/2006	782.56	11.67	770.89
MW-02B	10/31/2006	782.56	12.52	770.04
MW-02B	11/20/2006	782.56	11.82	770.74
MW-02B	5/2/2007	782.56	10.14	772.42
MW-02B	10/22/2007	782.56	15.76	766.80
MW-02B	4/23/2008	782.56	12.01	770.55
MW-02B	10/9/2008	782.56	14.03	768.53
MW-02B	10/13/2009	782.56	13.78	768.78
MW-02B	7/12/2010	782.56	12.95	769.61
MW-02B	7/13/2010	782.56	12.87	769.69
MW-02B	7/13/2011	782.56	11.27	771.29
MW-02B	7/16/2012	782.56	NS	NA
MW-02BR	7/15/2013	779.47	9.01	770.46
MW-02BR	6/25/2014	779.47	8.55	770.92
MW-02BR	7/15/2015	779.47	10.44	769.03
MW-03	9/2/1992	780.60	8.30	772.30
MW-03	10/7/1992	780.60	5.07	775.53
MW-03	10/21/1992	780.60	4.85	775.75
MW-03	11/24/1992	780.60	4.38	776.22
MW-03	12/18/1992	780.60	3.55	777.05
MW-03	1/25/1993	780.60	2.96	777.64
MW-03	3/1/1993	780.60	2.05	778.55
MW-03	3/29/1993	780.60	1.10	779.50
MW-03	4/29/1993	780.60	1.81	778.79
MW-03	5/20/1993	780.60	2.45	778.15
MW-03	6/10/1993	780.60	3.33	777.27
MW-03	7/14/1993	780.60	6.09	780.98
MW-03	7/23/1993	780.60	6.59	774.01
MW-03	8/10/1993	780.60	6.34	774.26
MW-03	8/17/1993	780.60	8.68	771.92
MW-03	9/10/1993	780.60	7.27	773.33
MW-03	10/19/1993	780.60	8.15	772.45
MW-03	11/30/1993	780.60	7.11	773.49
MW-03	1/19/1994	780.60	5.24	775.36
MW-03	2/15/1994	780.60	4.49	776.11

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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-03	3/8/1994	780.60	4.00	776.60
MW-03	4/19/1994	780.60	3.50	777.10
MW-03	5/31/1994	780.60	4.71	775.89
MW-03	6/24/1994	780.60	5.51	775.09
MW-03	7/20/1994	780.60	5.12	775.48
MW-03	8/18/1994	780.60	5.87	774.73
MW-03	9/15/1994	780.60	5.41	775.19
MW-03	11/1/1994	780.60	5.97	774.63
MW-03	12/21/1994	780.60	5.15	775.45
MW-03	1/31/1995	780.60	4.24	776.36
MW-03	2/7/1995	780.60	4.04	776.56
MW-03	4/19/1995	780.60	3.69	776.91
MW-03	5/23/1995	780.60	3.62	776.98
MW-03	6/15/1995	780.60	3.92	776.68
MW-03	7/6/1995	780.60	3.60	777.00
MW-03	8/4/1995	780.60	4.27	776.33
MW-03	9/18/1995	780.60	5.82	774.78
MW-03	10/10/1995	780.60	4.91	775.69
MW-03	11/9/1995	780.60	4.16	776.44
MW-03	12/14/1995	780.60	4.32	776.28
MW-03	1/5/1996	780.60	4.07	776.53
MW-03	2/16/1996	780.60	4.23	776.37
MW-03	3/21/1996	780.60	4.06	776.54
MW-03	4/19/1996	780.60	3.96	776.64
MW-03	5/8/1996	780.60	3.88	776.72
MW-03	6/7/1996	780.60	3.73	776.87
MW-03	7/19/1996	780.60	5.54	775.06
MW-03	8/8/1996	780.60	5.33	775.27
MW-03	9/5/1996	780.60	5.27	775.33
MW-03	10/16/1996	780.60	5.32	775.28
MW-03	11/14/1996	780.60	5.51	775.09
MW-03	12/3/1996	780.60	5.44	775.16
MW-03	1/7/1997	780.60	5.09	775.51
MW-03	2/25/1997	780.60	3.67	776.93
MW-03	3/17/1997	780.60	3.50	777.10
MW-03	4/9/1997	780.60	3.50	777.10
MW-03	5/15/1997	780.60	3.97	776.63
MW-03	6/16/1997	780.60	4.40	776.20
MW-03	8/5/1997	780.60	5.33	775.27
MW-03	8/25/1997	780.60	7.15	773.45
MW-03	9/11/1997	780.60	7.75	772.85
MW-03	10/10/1997	780.60	7.41	773.19
MW-03	11/18/1997	780.60	5.83	774.77
MW-03	12/18/1997	780.60	6.18	774.42
MW-03	1/30/1998	780.60	2.94	777.66
MW-03	2/26/1998	780.60	2.55	778.05
MW-03	5/18/1998	780.60	2.69	777.91
MW-03	12/21/1998	780.60	6.63	773.97
MW-03	1/7/1999	780.60	5.37	775.23
MW-03	5/6/1999	780.60	4.38	776.22
MW-03	5/6/1999	780.60	4.30	776.30
MW-03	5/19/1999	780.60	4.43	776.17
MW-03	6/21/1999	780.60	5.56	775.04
MW-03	7/15/1999	780.60	5.64	774.96
MW-03	11/9/1999	780.60	7.19	773.41
MW-03	5/17/2000	780.60	5.04	775.56

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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-03	11/27/2000	780.60	8.40	772.20
MW-03	5/8/2001	780.60	5.75	774.85
MW-03	10/24/2001	780.60	10.25	770.35
MW-03	5/14/2002	780.60	6.86	773.74
MW-03	9/30/2002	780.60	9.44	771.16
MW-03	4/29/2003	780.60	3.84	776.76
MW-03	4/7/2004	780.60	3.50	777.10
MW-03	10/11/2004	780.60	5.01	775.59
MW-03	6/6/2005	780.60	4.44	776.16
MW-03	10/11/2005	780.60	3.71	776.89
MW-03	2/22/2006	780.59	4.40	776.19
MW-03	4/18/2006	780.59	4.28	776.31
MW-03	5/10/2006	780.59	4.65	775.94
MW-03	10/31/2006	780.59	5.12	775.47
MW-03	11/20/2006	780.59	4.29	776.30
MW-03	5/2/2007	780.59	3.09	777.50
MW-03	10/22/2007	780.59	9.12	771.47
MW-03	4/23/2008	780.59	4.87	775.72
MW-03	10/8/2008	780.59	6.93	773.66
MW-03	10/13/2009	780.59	3.05	777.54
MW-03	7/12/2010	780.59	6.14	774.45
MW-03	7/13/2010	780.59	2.51	778.08
MW-03	7/13/2011	780.59	2.21	778.38
MW-03	7/16/2012	780.59	5.15	775.44
MW-03	7/15/2013	780.59	4.95	775.64
MW-03	6/25/2014	780.59	9.54	771.05
MW-03	7/15/2015	780.59	7.70	772.89
MW-04	9/2/1992	784.01	14.36	769.65
MW-04	10/7/1992	784.01	14.11	769.90
MW-04	10/21/1992	784.01	13.66	770.35
MW-04	11/24/1992	784.01	12.78	771.23
MW-04	12/18/1992	784.01	12.16	771.85
MW-04	1/25/1993	784.01	13.59	770.42
MW-04	3/1/1993	784.01	10.40	773.61
MW-04	3/29/1993	784.01	9.62	774.39
MW-04	4/29/1993	784.01	10.53	773.48
MW-04	5/20/1993	784.01	11.21	772.80
MW-04	6/10/1993	784.01	12.23	771.78
MW-04	7/14/1993	784.01	14.54	769.47
MW-04	7/23/1993	784.01	14.87	769.14
MW-04	8/10/1993	784.01	15.17	768.84
MW-04	8/17/1993	784.01	15.48	768.53
MW-04	9/10/1993	784.01	16.07	767.94
MW-04	10/19/1993	784.01	16.90	767.11
MW-04	11/30/1993	784.01	16.09	767.92
MW-04	1/19/1994	784.01	14.45	769.56
MW-04	2/15/1994	784.01	13.28	770.73
MW-04	3/8/1994	784.01	12.64	771.37
MW-04	4/19/1994	784.01	12.34	771.67
MW-04	5/31/1994	784.01	14.49	769.52
MW-04	6/24/1994	784.01	14.36	769.65
MW-04	7/20/1994	784.01	14.44	769.57
MW-04	8/18/1994	784.01	14.53	769.48
MW-04	9/15/1994	784.01	14.75	769.26
MW-04	11/1/1994	784.01	15.10	768.91
MW-04	12/21/1994	784.01	14.49	769.52

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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-04	1/31/1995	784.01	13.30	770.71
MW-04	2/7/1995	784.01	13.13	770.88
MW-04	4/19/1995	784.01	12.56	771.45
MW-04	5/23/1995	784.01	12.39	771.62
MW-04	6/15/1995	784.01	12.19	771.82
MW-04	7/6/1995	784.01	12.59	771.42
MW-04	8/4/1995	784.01	14.06	769.95
MW-04	9/18/1995	784.01	15.06	768.95
MW-04	10/10/1995	784.01	14.06	769.95
MW-04	11/9/1995	784.01	13.11	770.90
MW-04	12/14/1995	784.01	12.74	771.27
MW-04	1/5/1996	784.01	12.31	771.70
MW-04	2/16/1996	784.01	11.37	772.64
MW-04	3/21/1996	784.01	11.25	772.76
MW-04	4/19/1996	784.01	11.04	772.97
MW-04	5/8/1996	784.01	10.87	773.14
MW-04	6/7/1996	784.01	12.26	771.75
MW-04	7/19/1996	784.01	13.77	770.24
MW-04	8/8/1996	784.01	14.39	769.62
MW-04	9/5/1996	784.01	14.65	769.36
MW-04	10/16/1996	784.01	14.57	769.44
MW-04	11/14/1996	784.01	14.75	769.26
MW-04	12/3/1996	784.01	14.32	769.69
MW-04	1/7/1997	784.01	13.23	770.78
MW-04	2/25/1997	784.01	12.07	771.94
MW-04	3/17/1997	784.01	12.26	771.75
MW-04	4/9/1997	784.01	12.33	771.68
MW-04	5/15/1997	784.01	12.81	771.20
MW-04	6/16/1997	784.01	13.49	770.52
MW-04	8/5/1997	784.01	14.36	769.65
MW-04	8/25/1997	784.01	16.02	767.99
MW-04	9/11/1997	784.01	16.67	767.34
MW-04	10/10/1997	784.01	16.21	767.80
MW-04	11/18/1997	784.01	15.28	768.73
MW-04	12/18/1997	784.01	14.91	769.10
MW-04	1/30/1998	784.01	12.03	771.98
MW-04	2/26/1998	784.01	11.85	772.16
MW-04	5/18/1998	784.01	11.88	772.13
MW-04	12/21/1998	784.01	15.98	768.03
MW-04	1/7/1999	784.01	14.55	769.46
MW-04	5/6/1999	784.01	13.55	770.46
MW-04	5/6/1999	784.01	13.55	770.46
MW-04	5/19/1999	784.01	13.74	770.27
MW-04	6/21/1999	784.01	14.78	769.23
MW-04	7/15/1999	784.01	14.98	769.03
MW-04	11/9/1999	784.01	16.35	767.66
MW-04	5/17/2000	784.01	14.07	769.94
MW-04	11/27/2000	784.01	17.97	766.04
MW-04	5/8/2001	784.01	15.04	768.97
MW-04	10/24/2001	784.01	18.63	765.38
MW-04	5/14/2002	784.01	15.95	768.06
MW-04	9/30/2002	784.01	18.11	765.90
MW-04	4/29/2003	784.01	12.17	771.84
MW-04	10/13/2003	784.01	13.09	770.92
MW-04	4/7/2004	784.01	12.04	771.97
MW-04	10/11/2004	784.01	13.98	770.03

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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-04	6/6/2005	784.01	12.95	771.06
MW-04	10/11/2005	784.01	6.22	777.79
MW-04	2/22/2006	783.99	13.04	770.95
MW-04	4/18/2006	783.99	13.43	770.56
MW-04	5/10/2006	783.99	13.70	770.29
MW-04	10/31/2006	783.99	14.49	769.50
MW-04	11/20/2006	783.99	13.80	770.19
MW-04	5/2/2007	783.99	12.20	771.79
MW-04	10/22/2007	783.99	17.37	766.62
MW-04	4/23/2008	783.99	14.15	769.84
MW-04	10/9/2008	783.99	15.96	768.03
MW-04	10/13/2009	783.99	15.67	768.32
MW-04	7/12/2010	783.99	15.00	768.99
MW-04	7/13/2010	783.99	14.89	769.10
MW-04	7/13/2011	783.99	14.39	769.60
MW-04	7/16/2012	783.99	16.05	767.94
MW-04	7/15/2013	783.99	13.25	770.74
MW-04	6/24/2014	783.99	13.69	770.30
MW-04	7/15/2015	783.99	15.74	768.25
MW-05	9/2/1992	780.25	7.23	773.02
MW-05	10/7/1992	780.25	4.34	775.91
MW-05	10/21/1992	780.25	5.00	775.25
MW-05	11/24/1992	780.25	NM	NA
MW-05	12/18/1992	780.25	3.02	777.23
MW-05	1/25/1993	780.25	NM	NA
MW-05	3/1/1993	780.25	2.05	778.20
MW-05	3/29/1993	780.25	1.45	778.80
MW-05	4/29/1993	780.25	2.44	777.81
MW-05	5/20/1993	780.25	2.75	777.50
MW-05	6/10/1993	780.25	3.99	776.26
MW-05	7/14/1993	780.25	6.41	773.84
MW-05	7/23/1993	780.25	6.38	773.87
MW-05	8/10/1993	780.25	5.96	774.29
MW-05	8/17/1993	780.25	6.67	773.58
MW-05	9/10/1993	780.25	7.68	772.57
MW-05	10/19/1993	780.25	9.69	770.56
MW-05	11/30/1993	780.25	6.08	774.17
MW-05	1/19/1994	780.25	3.97	776.28
MW-05	2/15/1994	780.25	2.75	777.50
MW-05	3/8/1994	780.25	3.35	776.90
MW-05	4/19/1994	780.25	NM	NA
MW-05	5/31/1994	780.25	4.27	775.98
MW-05	6/24/1994	780.25	5.00	775.25
MW-05	7/20/1994	780.25	O	NA
MW-05	8/18/1994	780.25	3.27	776.98
MW-05	9/15/1994	780.25	4.62	775.63
MW-05	11/1/1994	780.25	5.03	775.22
MW-05	12/21/1994	780.25	4.16	776.09
MW-05	1/31/1995	780.25	2.63	777.62
MW-05	2/7/1995	780.25	3.59	776.66
MW-05	4/19/1995	780.25	3.66	776.59
MW-05	5/23/1995	780.25	3.79	776.46
MW-05	6/15/1995	780.25	3.66	776.59
MW-05	7/6/1995	780.25	3.11	777.14
MW-05	8/4/1995	780.25	6.31	773.94
MW-05	9/18/1995	780.25	5.86	774.39

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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-05	10/10/1995	780.25	5.71	774.54
MW-05	11/9/1995	780.25	4.96	775.29
MW-05	12/14/1995	780.25	4.86	775.39
MW-05	1/5/1996	780.25	4.62	775.63
MW-05	2/16/1996	780.25	6.45	773.80
MW-05	3/21/1996	780.25	6.55	773.70
MW-05	4/19/1996	780.25	6.63	773.62
MW-05	5/8/1996	780.25	3.60	776.65
MW-05	6/7/1996	780.25	O	NA
MW-05	7/19/1996	780.25	5.54	774.71
MW-05	8/8/1996	780.25	5.60	774.65
MW-05	9/5/1996	780.25	5.78	774.47
MW-05	10/16/1996	780.25	5.82	774.43
MW-05	11/14/1996	780.25	6.62	773.63
MW-05	12/3/1996	780.25	6.39	773.86
MW-05	1/7/1997	780.25	6.01	774.24
MW-05	2/25/1997	780.25	4.12	776.13
MW-05	3/17/1997	780.25	4.58	775.67
MW-05	4/9/1997	780.25	4.95	775.30
MW-05	5/15/1997	780.25	5.84	774.41
MW-05	6/16/1997	780.25	5.14	775.11
MW-05	8/5/1997	780.25	5.83	774.42
MW-05	8/25/1997	780.25	8.13	772.12
MW-05	9/11/1997	780.25	7.32	772.93
MW-05	10/10/1997	780.25	7.74	772.51
MW-05	11/18/1997	780.25	5.96	774.29
MW-05	12/18/1997	780.25	6.27	773.98
MW-05	1/30/1998	780.25	2.81	777.44
MW-05	2/26/1998	780.25	3.40	780.60
MW-05	5/18/1998	780.25	4.42	775.83
MW-05	12/21/1998	780.25	6.42	773.83
MW-05	1/7/1999	780.25	3.76	776.49
MW-05	5/6/1999	780.25	4.54	775.71
MW-05	5/6/1999	780.25	4.51	775.74
MW-05	5/19/1999	780.25	3.47	776.78
MW-05	6/21/1999	780.25	4.05	776.20
MW-05	7/15/1999	780.25	3.62	776.63
MW-05	11/9/1999	780.25	6.05	774.20
MW-05	5/17/2000	780.25	4.20	776.05
MW-05	11/27/2000	780.25	5.52	774.73
MW-05	5/8/2001	780.25	4.79	775.46
MW-05	10/24/2001	780.25	10.02	770.23
MW-05	5/14/2002	780.25	3.44	776.81
MW-05	9/30/2002	780.25	4.73	775.52
MW-05	4/29/2003	780.25	2.44	777.81
MW-05	10/13/2003	780.25	3.10	777.15
MW-05	4/7/2004	780.25	2.91	777.34
MW-05	10/11/2004	780.25	3.78	776.47
MW-05	6/6/2005	780.25	3.70	776.55
MW-05	10/11/2005	780.25	2.29	777.96
MW-05	2/22/2006	780.41	2.66	777.75
MW-05	4/18/2006	780.41	3.50	776.91
MW-05	5/10/2006	780.41	3.08	777.33
MW-05	10/31/2006	780.41	3.48	776.93
MW-05	11/20/2006	780.41	3.18	777.23
MW-05	5/2/2007	780.41	3.17	777.24

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INTERNATIONAL PAPER BOX PLANT
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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-05	10/22/2007	780.41	5.91	774.50
MW-05	4/23/2008	780.41	4.15	776.26
MW-05	10/8/2008	780.41	4.85	775.56
MW-05	10/13/2009	780.41	3.96	776.45
MW-05	7/12/2010	780.41	4.91	775.50
MW-05	7/13/2010	780.41	4.00	776.41
MW-05	7/13/2011	780.41	3.72	776.69
MW-05	7/16/2012	780.41	3.92	776.49
MW-05	7/15/2013	780.41	4.11	776.30
MW-05	6/25/2014	780.41	5.40	775.01
MW-05	7/15/2015	780.41	5.46	774.95
MW-06	10/21/1992	781.77	8.13	773.64
MW-06	11/24/1992	781.77	7.40	774.37
MW-06	12/18/1992	781.77	7.02	774.75
MW-06	1/25/1993	781.77	6.25	775.52
MW-06	3/1/1993	781.77	5.79	775.98
MW-06	3/29/1993	781.77	5.18	776.59
MW-06	4/29/1993	781.77	6.02	775.75
MW-06	5/20/1993	781.77	6.49	775.28
MW-06	6/10/1993	781.77	7.39	774.38
MW-06	7/14/1993	781.77	9.75	772.02
MW-06	7/23/1993	781.77	10.09	771.68
MW-06	8/10/1993	781.77	10.18	771.59
MW-06	8/17/1993	781.77	10.00	771.77
MW-06	9/10/1993	781.77	11.00	770.77
MW-06	10/19/1993	781.77	11.87	769.90
MW-06	11/30/1993	781.77	10.38	771.39
MW-06	1/19/1994	781.77	8.56	773.21
MW-06	2/15/1994	781.77	8.20	773.57
MW-06	3/8/1994	781.77	7.00	774.77
MW-06	4/19/1994	781.77	6.91	774.86
MW-06	5/31/1994	781.77	8.37	773.40
MW-06	6/24/1994	781.77	6.75	775.02
MW-06	7/20/1994	781.77	8.15	773.62
MW-06	8/18/1994	781.77	8.37	773.40
MW-06	9/15/1994	781.77	8.89	772.88
MW-06	11/1/1994	781.77	9.25	772.52
MW-06	12/21/1994	781.77	8.71	773.06
MW-06	1/31/1995	781.77	7.46	774.31
MW-06	2/7/1995	781.77	8.75	773.02
MW-06	4/19/1995	781.77	7.16	774.61
MW-06	5/23/1995	781.77	7.03	774.74
MW-06	6/15/1995	781.77	7.21	774.56
MW-06	7/6/1995	781.77	7.09	774.68
MW-06	8/4/1995	781.77	8.83	772.94
MW-06	9/18/1995	781.77	9.63	772.14
MW-06	10/10/1995	781.77	9.97	771.80
MW-06	11/9/1995	781.77	9.26	772.51
MW-06	12/14/1995	781.77	8.77	773.00
MW-06	1/5/1996	781.77	8.13	773.64
MW-06	2/16/1996	781.77	8.09	773.68
MW-06	3/21/1996	781.77	8.14	773.63
MW-06	4/19/1996	781.77	8.55	773.22
MW-06	5/8/1996	781.77	6.37	775.40
MW-06	6/7/1996	781.77	9.63	772.14
MW-06	7/19/1996	781.77	9.67	772.10

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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-06	8/8/1996	781.77	10.42	771.35
MW-06	9/5/1996	781.77	10.16	771.61
MW-06	10/16/1996	781.77	10.51	771.26
MW-06	11/14/1996	781.77	10.70	771.07
MW-06	12/3/1996	781.77	10.11	771.66
MW-06	1/7/1997	781.77	8.96	772.81
MW-06	2/25/1997	781.77	7.39	774.38
MW-06	3/17/1997	781.77	9.32	772.45
MW-06	4/9/1997	781.77	9.08	772.69
MW-06	5/15/1997	781.77	9.91	771.86
MW-06	6/16/1997	781.77	9.47	772.30
MW-06	8/5/1997	781.77	9.23	772.54
MW-06	8/25/1997	781.77	11.91	769.86
MW-06	9/11/1997	781.77	11.38	770.39
MW-06	10/10/1997	781.77	11.71	770.06
MW-06	11/18/1997	781.77	11.04	770.73
MW-06	12/18/1997	781.77	10.79	770.98
MW-06	1/30/1998	781.77	7.56	774.21
MW-06	2/26/1998	781.77	8.32	773.45
MW-06	5/18/1998	781.77	8.46	773.31
MW-06	12/21/1998	781.77	11.86	769.91
MW-06	1/7/1999	781.77	9.18	772.59
MW-06	5/6/1999	781.77	9.56	772.21
MW-06	5/6/1999	781.77	9.46	772.31
MW-06	6/21/1999	781.77	8.15	773.62
MW-06	7/15/1999	781.77	8.46	773.31
MW-06	11/9/1999	781.77	10.13	771.64
MW-06	5/17/2000	781.77	7.85	773.92
MW-06	11/27/2000	781.77	11.32	770.45
MW-06	5/8/2001	781.77	8.35	773.42
MW-06	10/24/2001	781.77	13.22	768.55
MW-06	5/14/2002	781.77	7.50	774.27
MW-06	9/30/2002	781.77	9.73	772.04
MW-06	4/29/2003	781.77	5.92	775.85
MW-06	10/13/2003	781.77	6.22	775.55
MW-06	4/7/2004	781.77	5.73	776.04
MW-06	10/11/2004	781.77	6.67	775.10
MW-06	6/6/2005	781.77	6.97	774.80
MW-06	10/11/2005	781.77	9.46	772.31
MW-06	2/22/2006	781.77	7.34	774.43
MW-06	4/18/2006	781.77	7.39	774.38
MW-06	5/10/2006	781.77	7.25	774.52
MW-06	10/31/2006	781.77	8.15	773.62
MW-06	11/20/2006	781.77	7.49	774.28
MW-06	5/2/2007	781.77	6.30	775.47
MW-06	6/14/2007	781.77	7.55	774.22
MW-06	10/22/2007	781.77	10.73	771.04
MW-06	4/23/2008	781.77	8.18	773.59
MW-06	10/9/2008	781.77	7.44	774.33
MW-06	10/13/2009	781.77	7.61	774.16
MW-06	7/12/2010	781.77	7.73	774.04
MW-06	7/13/2010	781.77	6.98	774.79
MW-06	7/13/2011	781.77	6.09	775.68
MW-06	7/16/2012	781.77	7.45	774.32
MW-06	7/15/2013	781.77	6.77	775.00
MW-06	6/24/2014	781.77	7.00	774.77

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INTERNATIONAL PAPER BOX PLANT
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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-06	7/15/2015	781.77	7.97	773.80
MW-07	10/21/1992	779.05	9.74	769.31
MW-07	11/24/1992	779.05	6.58	772.47
MW-07	12/18/1992	779.05	5.37	773.68
MW-07	1/25/1993	779.05	5.93	773.12
MW-07	3/1/1993	779.05	3.88	775.17
MW-07	3/29/1993	779.05	3.18	775.87
MW-07	4/29/1993	779.05	3.96	775.09
MW-07	5/20/1993	779.05	4.49	774.56
MW-07	6/10/1993	779.05	5.36	773.69
MW-07	7/14/1993	779.05	7.72	771.33
MW-07	7/23/1993	779.05	8.15	770.90
MW-07	8/10/1993	779.05	8.38	770.67
MW-07	8/17/1993	779.05	8.81	770.24
MW-07	9/10/1993	779.05	9.38	769.67
MW-07	10/19/1993	779.05	10.20	768.85
MW-07	11/30/1993	779.05	9.16	769.89
MW-07	1/19/1994	779.05	7.63	771.42
MW-07	2/15/1994	779.05	6.81	772.24
MW-07	3/8/1994	779.05	5.92	773.13
MW-07	4/19/1994	779.05	5.49	773.56
MW-07	5/31/1994	779.05	6.85	772.20
MW-07	6/24/1994	779.05	7.58	771.47
MW-07	7/20/1994	779.05	7.31	771.74
MW-07	8/18/1994	779.05	7.30	771.75
MW-07	9/15/1994	779.05	8.08	770.97
MW-07	11/1/1994	779.05	8.53	770.52
MW-07	12/21/1994	779.05	7.65	771.40
MW-07	1/31/1995	779.05	6.31	772.74
MW-07	2/7/1995	779.05	6.59	772.46
MW-07	4/19/1995	779.05	5.83	773.22
MW-07	5/23/1995	779.05	6.04	773.01
MW-07	6/15/1995	779.05	5.36	773.69
MW-07	7/6/1995	779.05	5.23	773.82
MW-07	8/4/1995	779.05	6.93	772.12
MW-07	9/18/1995	779.05	7.54	771.51
MW-07	10/10/1995	779.05	7.28	771.77
MW-07	11/9/1995	779.05	6.39	772.66
MW-07	12/14/1995	779.05	5.81	773.24
MW-07	1/5/1996	779.05	4.62	774.43
MW-07	2/16/1996	779.05	5.40	773.65
MW-07	3/21/1996	779.05	5.46	773.59
MW-07	4/19/1996	779.05	5.68	773.37
MW-07	5/8/1996	779.05	5.63	773.42
MW-07	6/7/1996	779.05	5.97	773.08
MW-07	7/19/1996	779.05	7.21	771.84
MW-07	8/8/1996	779.05	7.50	771.55
MW-07	9/5/1996	779.05	7.84	771.21
MW-07	10/16/1996	779.05	7.92	771.13
MW-07	11/14/1996	779.05	7.96	771.09
MW-07	12/3/1996	779.05	7.79	771.26
MW-07	1/7/1997	779.05	7.49	771.56
MW-07	2/25/1997	779.05	6.36	772.69
MW-07	3/17/1997	779.05	6.18	772.87
MW-07	4/9/1997	779.05	6.00	773.05
MW-07	5/15/1997	779.05	6.64	772.41

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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-07	6/16/1997	779.05	6.74	772.31
MW-07	8/5/1997	779.05	7.61	771.44
MW-07	8/25/1997	779.05	9.34	769.71
MW-07	9/11/1997	779.05	9.92	769.13
MW-07	10/10/1997	779.05	9.62	769.43
MW-07	11/18/1997	779.05	8.42	770.63
MW-07	12/18/1997	779.05	8.15	770.90
MW-07	1/30/1998	779.05	5.25	773.80
MW-07	2/26/1998	779.05	5.51	773.54
MW-07	5/18/1998	779.05	5.63	773.42
MW-07	12/21/1998	779.05	9.15	769.90
MW-07	1/7/1999	779.05	7.35	771.70
MW-07	5/6/1999	779.05	6.80	772.25
MW-07	5/6/1999	779.05	6.77	772.28
MW-07	5/19/1999	779.05	6.55	772.50
MW-07	6/21/1999	779.05	7.56	771.49
MW-07	7/15/1999	779.05	7.64	771.41
MW-07	11/9/1999	779.05	9.16	769.89
MW-07	5/17/2000	779.05	6.98	772.07
MW-07	11/27/2000	779.05	10.23	768.82
MW-07	5/8/2001	779.05	8.01	771.04
MW-07	10/24/2001	779.05	11.75	767.30
MW-07	5/14/2002	779.05	8.75	770.30
MW-07	9/30/2002	779.05	10.99	768.06
MW-07	4/29/2003	779.05	5.21	773.84
MW-07	10/13/2003	779.05	5.97	773.08
MW-07	4/7/2004	779.05	5.31	773.74
MW-07	10/11/2004	779.05	7.45	771.60
MW-07	10/11/2005	779.05	9.22	769.83
MW-07	2/22/2006	778.95	6.06	772.89
MW-07	4/18/2006	778.95	6.49	772.46
MW-07	5/10/2006	778.95	6.79	772.16
MW-07	10/31/2006	778.95	7.39	771.56
MW-07	11/20/2006	778.95	6.68	772.27
MW-07	5/2/2007	778.95	5.20	773.75
MW-07	10/22/2007	778.95	10.98	767.97
MW-07	4/23/2008	778.95	7.34	771.61
MW-07	10/8/2008	778.95	9.05	769.90
MW-07	10/13/2009	778.95	8.67	770.28
MW-07	7/12/2010	778.95	7.95	771.00
MW-07	7/13/2010	778.95	7.70	771.25
MW-07	7/13/2011	778.95	7.48	771.47
MW-07	7/16/2012	778.95	10.41	768.54
MW-07	7/15/2013	778.95	8.89	770.06
MW-07	6/25/2014	778.95	8.32	770.63
MW-07	7/15/2015	778.95	10.17	768.78
MW-08	7/14/1993	795.81	12.58	783.23
MW-08	7/25/1993	795.81	12.95	782.86
MW-08	8/10/1993	795.81	12.35	783.46
MW-08	8/17/1993	795.81	13.40	782.41
MW-08	9/10/1993	795.81	14.63	781.18
MW-08	10/19/1993	795.81	15.65	780.16
MW-08	11/30/1993	795.81	13.17	782.64
MW-08	1/19/1994	795.81	10.00	785.81
MW-08	2/15/1994	795.81	8.85	786.96
MW-08	3/8/1994	795.81	7.95	787.86

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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-08	4/19/1994	795.81	7.68	788.13
MW-08	5/31/1994	795.81	12.72	783.09
MW-08	6/24/1994	795.81	11.53	784.28
MW-08	7/20/1994	795.81	10.26	785.55
MW-08	8/18/1994	795.81	13.67	782.14
MW-08	9/15/1994	795.81	11.13	784.68
MW-08	11/1/1994	795.81	13.52	782.29
MW-08	12/21/1994	795.81	10.17	785.64
MW-08	1/31/1995	795.81	8.23	787.58
MW-08	2/7/1995	795.81	8.39	787.42
MW-08	4/19/1995	795.81	7.63	788.18
MW-08	5/23/1995	795.81	8.27	787.54
MW-08	6/15/1995	795.81	8.67	787.14
MW-08	7/6/1995	795.81	8.42	787.39
MW-08	8/4/1995	795.81	10.39	785.42
MW-08	9/18/1995	795.81	10.77	785.04
MW-08	10/10/1995	795.81	8.75	787.06
MW-08	11/9/1995	795.81	7.26	788.55
MW-08	12/14/1995	795.81	7.05	788.76
MW-08	1/5/1996	795.81	7.03	788.78
MW-08	2/16/1996	795.81	6.44	789.37
MW-08	3/21/1996	795.81	6.29	789.52
MW-08	4/19/1996	795.81	6.23	789.58
MW-08	5/8/1996	795.81	6.11	789.70
MW-08	6/7/1996	795.81	7.84	787.97
MW-08	7/19/1996	795.81	10.13	785.68
MW-08	8/8/1996	795.81	10.27	785.54
MW-08	9/5/1996	795.81	12.80	783.01
MW-08	10/16/1996	795.81	10.22	785.59
MW-08	11/14/1996	795.81	10.71	785.10
MW-08	12/3/1996	795.81	9.66	786.15
MW-08	1/7/1997	795.81	8.61	787.20
MW-08	2/25/1997	795.81	7.26	788.55
MW-08	3/17/1997	795.81	7.32	788.49
MW-08	4/9/1997	795.81	7.86	787.95
MW-08	5/15/1997	795.81	8.39	787.42
MW-08	6/16/1997	795.81	9.24	786.57
MW-08	8/5/1997	795.81	9.87	785.94
MW-08	8/25/1997	795.81	13.11	782.70
MW-08	9/11/1997	795.81	13.91	781.90
MW-08	10/10/1997	795.81	13.62	782.19
MW-08	11/18/1997	795.81	10.72	785.09
MW-08	12/18/1997	795.81	9.86	785.95
MW-08	2/26/1998	795.81	5.95	789.86
MW-08	5/18/1998	795.81	6.87	788.94
MW-08	12/21/1998	795.81	11.86	783.95
MW-08	1/7/1999	795.81	9.85	785.96
MW-08	5/6/1999	795.81	9.02	786.79
MW-08	5/6/1999	795.81	9.01	786.80
MW-08	5/19/1999	795.81	9.70	786.11
MW-08	6/21/1999	795.81	11.08	784.73
MW-08	7/15/1999	795.81	11.20	784.61
MW-08	11/9/1999	795.81	12.80	783.01
MW-08	5/17/2000	795.81	10.18	785.63
MW-08	11/27/2000	795.81	14.37	781.44
MW-08	5/8/2001	795.81	11.07	784.74

APPENDIX A
HISTORICAL GROUNDWATER ELEVATION DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-08	10/24/2001	795.81	17.56	778.25
MW-08	5/14/2002	795.81	12.54	783.27
MW-08	9/30/2002	795.81	16.92	778.89
MW-08	4/29/2003	795.81	6.33	789.48
MW-08	10/13/2003	795.81	7.67	788.14
MW-08	4/7/2004	795.81	7.85	787.96
MW-08	10/11/2004	795.81	9.27	786.54
MW-08	6/6/2005	795.81	8.53	787.28
MW-08	2/22/2006	795.81	8.15	787.66
MW-08	4/18/2006	795.81	9.30	786.51
MW-08	5/10/2006	795.81	9.68	786.13
MW-08	10/31/2006	795.81	8.76	787.05
MW-08	11/20/2006	795.81	7.65	788.16
MW-08	5/2/2007	795.81	6.89	788.92
MW-08	10/22/2007	795.81	15.30	780.51
MW-08	4/23/2008	795.81	8.53	787.28
MW-08	10/8/2008	795.81	9.86	785.95
MW-08	10/13/2009	795.81	11.52	784.29
MW-08	7/12/2010	795.81	10.73	785.08
MW-08	7/13/2010	795.81	10.15	785.66
MW-08	7/13/2011	795.81	9.87	785.94
MW-08	7/16/2012	795.81	12.82	782.99
MW-08	7/15/2013	795.81	8.09	787.72
MW-08	6/25/2014	795.81	9.02	786.79
MW-08	7/15/2015	795.81	12.99	782.82
MW-09	7/14/1993	781.60	7.38	774.22
MW-09	7/23/1993	781.60	7.63	773.97
MW-09	8/10/1993	781.60	7.71	773.89
MW-09	8/17/1993	781.60	8.08	773.52
MW-09	9/10/1993	781.60	8.74	772.86
MW-09	10/19/1993	781.60	9.58	772.02
MW-09	11/30/1993	781.60	8.39	773.21
MW-09	1/19/1994	781.60	6.69	774.91
MW-09	2/15/1994	781.60	7.16	774.44
MW-09	3/8/1994	781.60	7.14	774.46
MW-09	4/19/1994	781.60	6.52	775.08
MW-09	5/31/1994	781.60	6.84	774.76
MW-09	6/24/1994	781.60	6.80	774.80
MW-09	7/20/1994	781.60	6.94	774.66
MW-09	8/18/1994	781.60	7.13	774.47
MW-09	9/15/1994	781.60	7.47	774.13
MW-09	11/1/1994	781.60	7.89	773.71
MW-09	12/21/1994	781.60	7.20	774.40
MW-09	1/31/1995	781.60	6.66	774.94
MW-09	2/7/1995	781.60	6.31	775.29
MW-09	4/19/1995	781.60	5.64	775.96
MW-09	5/23/1995	781.60	5.41	776.19
MW-09	6/15/1995	781.60	5.83	775.77
MW-09	7/6/1995	781.60	5.69	775.91
MW-09	8/4/1995	781.60	6.27	775.33
MW-09	9/18/1995	781.60	6.94	774.66
MW-09	10/10/1995	781.60	7.03	774.57
MW-09	11/9/1995	781.60	6.74	774.86
MW-09	12/14/1995	781.60	6.39	775.21
MW-09	1/5/1996	781.60	6.14	775.46
MW-09	2/16/1996	781.60	5.85	775.75

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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-09	3/21/1996	781.60	5.41	776.19
MW-09	4/19/1996	781.60	5.31	776.29
MW-09	5/8/1996	781.60	5.27	776.33
MW-09	6/7/1996	781.60	5.35	776.25
MW-09	7/19/1996	781.60	5.86	775.74
MW-09	8/8/1996	781.60	6.16	775.44
MW-09	9/5/1996	781.60	6.02	775.58
MW-09	10/16/1996	781.60	6.14	775.46
MW-09	11/14/1996	781.60	6.27	775.33
MW-09	12/3/1996	781.60	5.98	775.62
MW-09	1/7/1997	781.60	5.04	776.56
MW-09	2/25/1997	781.60	5.21	776.39
MW-09	3/17/1997	781.60	5.21	776.39
MW-09	4/9/1997	781.60	5.12	776.48
MW-09	5/15/1997	781.60	5.44	776.16
MW-09	6/16/1997	781.60	5.65	775.95
MW-09	8/5/1997	781.60	5.82	775.78
MW-09	8/25/1997	781.60	8.63	772.97
MW-09	9/11/1997	781.60	9.67	771.93
MW-09	10/10/1997	781.60	9.24	772.36
MW-09	11/18/1997	781.60	7.34	774.26
MW-09	12/18/1997	781.60	7.67	773.93
MW-09	1/30/1998	781.60	5.35	776.25
MW-09	2/26/1998	781.60	4.50	777.10
MW-09	5/18/1998	781.60	4.41	777.19
MW-09	12/21/1998	781.60	7.87	773.73
MW-09	1/7/1999	781.60	6.83	774.77
MW-09	5/6/1999	781.60	6.46	775.14
MW-09	5/6/1999	781.60	6.25	775.35
MW-09	6/21/1999	781.60	7.05	774.55
MW-09	7/15/1999	781.60	7.31	774.29
MW-09	11/9/1999	781.60	8.55	773.05
MW-09	5/17/2000	781.60	7.81	773.79
MW-09	11/27/2000	781.60	9.72	771.88
MW-09	5/8/2001	781.60	7.54	774.06
MW-09	10/24/2001	781.60	11.39	770.21
MW-09	5/14/2002	781.60	8.51	773.09
MW-09	9/30/2002	781.60	10.74	770.86
MW-09	4/29/2003	781.60	5.90	775.70
MW-09	10/13/2003	781.60	5.31	776.29
MW-09	4/7/2004	781.60	4.56	777.04
MW-09	10/11/2004	781.60	6.41	775.19
MW-09	10/11/2005	781.60	8.34	773.26
MW-09	2/22/2006	781.62	5.56	776.06
MW-09	4/18/2006	781.62	5.90	775.72
MW-09	5/10/2006	781.62	6.15	775.47
MW-09	10/31/2006	781.62	6.55	775.07
MW-09	11/20/2006	781.62	5.77	775.85
MW-09	5/2/2007	781.62	4.61	777.01
MW-09	10/22/2007	781.62	10.08	771.54
MW-09	4/23/2008	781.62	6.41	775.21
MW-09	10/8/2008	781.62	8.19	773.43
MW-09	10/13/2009	781.62	8.10	773.52
MW-09	7/12/2010	781.62	7.87	773.75
MW-09	7/13/2010	781.62	7.70	773.92
MW-09	7/13/2011	781.62	7.41	774.21

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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-09	7/16/2012	781.62	8.79	772.83
MW-09	7/15/2013	781.62	8.37	773.25
MW-09	6/25/2014	781.62	6.42	775.20
MW-09	7/15/2015	781.62	8.66	772.96
MW-10	7/14/1993	783.06	6.42	776.64
MW-10	7/23/1993	783.06	6.55	776.51
MW-10	8/10/1993	783.06	5.68	777.38
MW-10	8/17/1993	783.06	6.22	776.84
MW-10	9/10/1993	783.06	6.61	776.45
MW-10	10/19/1993	783.06	7.75	775.31
MW-10	11/30/1993	783.06	6.18	776.88
MW-10	1/19/1994	783.06	3.85	779.21
MW-10	2/15/1994	783.06	3.35	779.71
MW-10	3/8/1994	783.06	3.33	779.73
MW-10	4/19/1994	783.06	3.08	779.98
MW-10	5/31/1994	783.06	6.05	777.01
MW-10	6/24/1994	783.06	4.00	779.06
MW-10	7/20/1994	783.06	3.34	779.72
MW-10	8/18/1994	783.06	3.29	779.77
MW-10	9/15/1994	783.06	4.10	778.96
MW-10	11/1/1994	783.06	4.52	778.54
MW-10	12/21/1994	783.06	4.13	778.93
MW-10	1/31/1995	783.06	3.35	779.71
MW-10	2/7/1995	783.06	4.18	778.88
MW-10	4/19/1995	783.06	4.04	779.02
MW-10	5/23/1995	783.06	3.94	779.12
MW-10	6/15/1995	783.06	4.07	778.99
MW-10	7/6/1995	783.06	3.43	779.63
MW-10	8/4/1995	783.06	4.09	778.97
MW-10	9/18/1995	783.06	5.62	777.44
MW-10	10/10/1995	783.06	4.22	778.84
MW-10	11/9/1995	783.06	4.03	779.03
MW-10	12/14/1995	783.06	3.82	779.24
MW-10	1/5/1996	783.06	3.59	779.47
MW-10	2/16/1996	783.06	3.07	779.99
MW-10	3/21/1996	783.06	2.92	780.14
MW-10	4/19/1996	783.06	2.96	780.10
MW-10	5/8/1996	783.06	2.91	780.15
MW-10	6/7/1996	783.06	O	NA
MW-10	7/19/1996	783.06	3.37	779.69
MW-10	8/8/1996	783.06	4.49	778.57
MW-10	9/5/1996	783.06	4.55	778.51
MW-10	10/16/1996	783.06	4.92	778.14
MW-10	11/14/1996	783.06	5.06	778.00
MW-10	12/3/1996	783.06	4.74	778.32
MW-10	1/7/1997	783.06	3.63	779.43
MW-10	2/25/1997	783.06	3.32	779.74
MW-10	3/17/1997	783.06	3.58	779.48
MW-10	4/9/1997	783.06	3.55	779.51
MW-10	5/15/1997	783.06	4.05	779.01
MW-10	6/16/1997	783.06	4.40	778.66
MW-10	8/5/1997	783.06	4.55	778.51
MW-10	8/25/1997	783.06	6.68	776.38
MW-10	9/11/1997	783.06	7.15	775.91
MW-10	10/10/1997	783.06	6.89	776.17
MW-10	11/18/1997	783.06	5.19	777.87

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INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-10	12/18/1997	783.06	5.40	777.66
MW-10	1/30/1998	783.06	3.64	779.42
MW-10	2/26/1998	783.06	3.08	779.98
MW-10	5/18/1998	783.06	2.94	780.12
MW-10	12/21/1998	783.06	6.17	776.89
MW-10	1/7/1999	783.06	4.80	778.26
MW-10	5/6/1999	783.06	3.83	779.23
MW-10	5/6/1999	783.06	3.83	779.23
MW-10	6/21/1999	783.06	4.92	778.14
MW-10	7/15/1999	783.06	4.54	778.52
MW-10	11/9/1999	783.06	5.25	777.81
MW-10	5/17/2000	783.06	3.88	779.18
MW-10	11/27/2000	783.06	4.38	778.68
MW-10	5/8/2001	783.06	4.22	778.84
MW-10	10/24/2001	783.06	7.14	775.92
MW-10	5/14/2002	783.06	3.83	779.23
MW-10	9/30/2002	783.06	4.61	778.45
MW-10	4/29/2003	783.06	2.61	780.45
MW-10	10/13/2003	783.06	3.55	779.51
MW-10	4/7/2004	783.06	2.93	780.13
MW-10	10/11/2004	783.06	3.81	779.25
MW-10	6/6/2005	783.06	3.36	779.70
MW-10	10/11/2005	783.06	5.34	777.72
MW-10	2/22/2006	783.09	3.08	780.01
MW-10	4/18/2006	783.09	4.04	779.05
MW-10	5/10/2006	783.09	3.75	779.34
MW-10	10/31/2006	783.09	4.69	778.40
MW-10	11/20/2006	783.09	4.05	779.04
MW-10	5/2/2007	783.09	3.12	779.97
MW-10	10/22/2007	783.09	7.97	775.12
MW-10	4/23/2008	783.09	3.30	779.79
MW-10	10/8/2008	783.09	4.68	778.41
MW-10	10/13/2009	783.09	3.98	779.11
MW-10	7/12/2010	783.09	5.09	778.00
MW-10	7/13/2010	783.09	3.17	779.92
MW-10	7/13/2011	783.09	2.97	780.12
MW-10	7/16/2012	783.09	3.60	779.49
MW-10	7/15/2013	783.09	0.33	782.76
MW-10	6/25/2014	783.09	3.25	779.84
MW-10	7/15/2015	783.09	5.22	777.87
MW-11	8/10/1993	781.89	6.91	774.98
MW-11	8/17/1993	781.89	7.67	774.22
MW-11	9/10/1993	781.89	8.35	773.54
MW-11	10/19/1993	781.89	9.44	772.45
MW-11	11/30/1993	781.89	6.81	775.08
MW-11	1/19/1994	781.89	5.45	776.44
MW-11	2/15/1994	781.89	4.71	777.18
MW-11	3/8/1994	781.89	4.79	777.10
MW-11	4/19/1994	781.89	4.74	777.15
MW-11	5/31/1994	781.89	6.49	775.40
MW-11	6/24/1994	781.89	8.50	773.39
MW-11	7/20/1994	781.89	4.69	777.20
MW-11	8/18/1994	781.89	4.32	777.57
MW-11	9/15/1994	781.89	6.18	775.71
MW-11	11/1/1994	781.89	6.03	775.86
MW-11	12/21/1994	781.89	5.87	776.02

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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-11	1/31/1995	781.89	4.43	777.46
MW-11	2/7/1995	781.89	5.08	776.81
MW-11	4/19/1995	781.89	5.50	776.39
MW-11	5/23/1995	781.89	5.62	776.27
MW-11	6/15/1995	781.89	5.87	776.02
MW-11	7/6/1995	781.89	5.20	776.69
MW-11	8/4/1995	781.89	7.44	774.45
MW-11	9/18/1995	781.89	7.86	774.03
MW-11	10/10/1995	781.89	8.01	773.88
MW-11	11/9/1995	781.89	7.96	773.93
MW-11	12/14/1995	781.89	8.42	773.47
MW-11	1/5/1996	781.89	7.21	774.68
MW-11	2/16/1996	781.89	8.76	773.13
MW-11	3/21/1996	781.89	8.82	773.07
MW-11	4/19/1996	781.89	8.43	773.46
MW-11	5/8/1996	781.89	5.67	776.22
MW-11	6/7/1996	781.89	9.45	772.44
MW-11	7/19/1996	781.89	9.04	772.85
MW-11	8/8/1996	781.89	9.27	772.62
MW-11	9/5/1996	781.89	9.52	772.37
MW-11	10/16/1996	781.89	9.28	772.61
MW-11	11/14/1996	781.89	9.85	772.04
MW-11	12/3/1996	781.89	9.77	772.12
MW-11	1/7/1997	781.89	8.51	773.38
MW-11	2/25/1997	781.89	8.79	773.10
MW-11	3/17/1997	781.89	9.17	772.72
MW-11	4/9/1997	781.89	8.72	773.17
MW-11	5/15/1997	781.89	10.14	771.75
MW-11	6/16/1997	781.89	8.85	773.04
MW-11	8/5/1997	781.89	9.27	772.62
MW-11	8/25/1997	781.89	11.00	770.89
MW-11	9/11/1997	781.89	10.62	771.27
MW-11	10/10/1997	781.89	10.84	771.05
MW-11	11/18/1997	781.89	9.65	772.24
MW-11	12/18/1997	781.89	9.84	772.05
MW-11	1/30/1998	781.89	6.00	775.89
MW-11	2/26/1998	781.89	8.41	773.48
MW-11	5/18/1998	781.89	8.44	773.45
MW-11	12/21/1998	781.89	10.16	771.73
MW-11	1/7/1999	781.89	6.10	775.79
MW-11	5/6/1999	781.89	9.06	772.83
MW-11	5/6/1999	781.89	9.02	772.87
MW-11	5/19/1999	781.89	6.27	775.62
MW-11	6/21/1999	781.89	6.13	775.76
MW-11	7/15/1999	781.89	5.82	776.07
MW-11	11/9/1999	781.89	7.82	774.07
MW-11	5/17/2000	781.89	6.31	775.58
MW-11	11/27/2000	781.89	7.26	774.63
MW-11	5/8/2001	781.89	6.99	774.90
MW-11	10/24/2001	781.89	9.92	771.97
MW-11	5/14/2002	781.89	5.69	776.20
MW-11	9/30/2002	781.89	6.84	775.05
MW-11	4/29/2003	781.89	5.10	776.79
MW-11	10/13/2003	781.89	5.34	776.55
MW-11	4/7/2004	781.89	5.10	776.79
MW-11	10/11/2004	781.89	5.78	776.11

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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-11	6/7/2005	781.89	5.37	776.52
MW-11	10/11/2005	781.89	6.57	775.32
MW-11	2/22/2006	781.85	5.24	776.61
MW-11	4/18/2006	781.85	5.93	775.92
MW-11	5/10/2006	781.85	5.47	776.38
MW-11	10/31/2006	781.85	5.90	775.95
MW-11	11/20/2006	781.85	5.55	776.30
MW-11	5/2/2007	781.85	5.15	776.70
MW-11	6/14/2007	781.85	6.18	775.67
MW-11	10/22/2007	781.85	9.40	772.45
MW-11	4/23/2008	781.85	6.28	775.57
MW-11	10/8/2008	781.85	6.81	775.04
MW-11	10/13/2009	781.85	6.15	775.70
MW-11	7/12/2010	781.85	6.79	775.06
MW-11	7/13/2010	781.85	5.96	775.89
MW-11	7/13/2011	781.85	5.74	776.11
MW-11	7/16/2012	781.85	5.78	776.07
MW-11	7/15/2013	781.85	5.87	775.98
MW-11	6/24/2014	781.85	6.45	775.40
MW-11	7/15/2015	781.85	7.36	774.49
MW-12	8/10/1993	781.97	8.05	773.92
MW-12	8/17/1993	781.97	8.65	773.32
MW-12	9/10/1993	781.97	9.66	772.31
MW-12	10/19/1993	781.97	10.56	771.41
MW-12	11/30/1993	781.97	9.19	772.78
MW-12	1/19/1994	781.97	6.64	775.33
MW-12	2/15/1994	781.97	5.91	776.06
MW-12	3/8/1994	781.97	8.63	773.34
MW-12	4/19/1994	781.97	5.71	776.26
MW-12	5/31/1994	781.97	7.52	774.45
MW-12	6/24/1994	781.97	7.72	774.25
MW-12	7/20/1994	781.97	6.42	775.55
MW-12	8/18/1994	781.97	6.69	775.28
MW-12	9/15/1994	781.97	7.58	774.39
MW-12	11/1/1994	781.97	7.37	774.60
MW-12	12/21/1994	781.97	7.40	774.57
MW-12	1/31/1995	781.97	5.55	776.42
MW-12	2/7/1995	781.97	6.05	775.92
MW-12	4/19/1995	781.97	6.46	775.51
MW-12	5/23/1995	781.97	6.38	775.59
MW-12	6/15/1995	781.97	6.44	775.53
MW-12	7/6/1995	781.97	6.12	775.85
MW-12	8/4/1995	781.97	8.26	773.71
MW-12	9/18/1995	781.97	8.25	773.72
MW-12	10/10/1995	781.97	8.53	773.44
MW-12	11/9/1995	781.97	8.62	773.35
MW-12	12/14/1995	781.97	8.59	773.38
MW-12	1/5/1996	781.97	7.36	774.61
MW-12	2/16/1996	781.97	8.63	773.34
MW-12	3/21/1996	781.97	8.91	773.06
MW-12	4/19/1996	781.97	8.51	773.46
MW-12	5/8/1996	781.97	5.84	776.13
MW-12	6/7/1996	781.97	9.21	772.76
MW-12	7/19/1996	781.97	9.13	772.84
MW-12	8/8/1996	781.97	9.39	772.58
MW-12	9/5/1996	781.97	9.61	772.36

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HISTORICAL GROUNDWATER ELEVATION DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-12	10/16/1996	781.97	9.34	772.63
MW-12	11/14/1996	781.97	10.14	771.83
MW-12	12/3/1996	781.97	9.84	772.13
MW-12	1/7/1997	781.97	8.70	773.27
MW-12	2/25/1997	781.97	8.99	772.98
MW-12	3/17/1997	781.97	9.47	772.50
MW-12	4/9/1997	781.97	8.80	773.17
MW-12	5/15/1997	781.97	10.05	771.92
MW-12	6/16/1997	781.97	9.23	772.74
MW-12	8/5/1997	781.97	9.34	772.63
MW-12	8/25/1997	781.97	11.61	770.36
MW-12	9/11/1997	781.97	11.69	770.28
MW-12	10/10/1997	781.97	11.64	770.33
MW-12	11/18/1997	781.97	10.41	771.56
MW-12	12/18/1997	781.97	10.62	771.35
MW-12	1/30/1998	781.97	6.29	775.68
MW-12	2/26/1998	781.97	8.95	773.02
MW-12	5/18/1998	781.97	8.62	773.35
MW-12	12/21/1998	781.97	10.92	771.05
MW-12	1/7/1999	781.97	6.32	775.65
MW-12	5/6/1999	781.97	9.38	772.59
MW-12	5/6/1999	781.97	9.38	772.59
MW-12	5/19/1999	781.97	8.38	773.59
MW-12	6/21/1999	781.97	8.68	773.29
MW-12	7/15/1999	781.97	8.61	773.36
MW-12	11/9/1999	781.97	10.53	771.44
MW-12	5/17/2000	781.97	8.48	773.49
MW-12	11/27/2000	781.97	7.27	774.70
MW-12	5/8/2001	781.97	9.23	772.74
MW-12	10/24/2001	781.97	12.56	769.41
MW-12	5/14/2002	781.97	9.19	772.78
MW-12	9/30/2002	781.97	10.44	771.53
MW-12	4/29/2003	781.97	6.99	774.98
MW-12	10/13/2003	781.97	7.52	774.45
MW-12	4/7/2004	781.97	7.03	774.94
MW-12	10/11/2004	781.97	8.25	773.72
MW-12	6/7/2005	781.97	7.38	774.59
MW-12	10/11/2005	781.97	10.50	771.47
MW-12	2/22/2006	781.91	7.73	774.18
MW-12	4/18/2006	781.91	8.17	773.74
MW-12	5/10/2006	781.91	8.19	773.72
MW-12	10/31/2006	781.91	8.72	773.19
MW-12	5/2/2007	781.91	7.20	774.71
MW-12	6/14/2007	781.91	8.81	773.10
MW-12	10/22/2007	781.91	12.05	769.86
MW-12	4/23/2008	781.91	8.78	773.13
MW-12	10/8/2008	781.91	9.88	772.03
MW-12	10/13/2009	781.91	9.49	772.42
MW-12	7/12/2010	781.91	9.20	772.71
MW-12	7/13/2010	781.91	8.95	772.96
MW-12	7/13/2011	781.91	8.72	773.19
MW-12	7/16/2012	781.91	9.35	772.56
MW-12	7/15/2013	781.91	7.85	774.06
MW-12	6/24/2014	781.91	8.40	773.51
MW-12	7/15/2015	781.91	9.99	771.92
MW-13	5/23/1995	780.80	5.81	774.99

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HISTORICAL GROUNDWATER ELEVATION DATA
INTERNATIONAL PAPER BOX PLANT
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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-13	6/15/1995	780.95	5.33	775.62
MW-13	7/6/1995	780.95	5.22	775.73
MW-13	8/4/1995	780.95	7.06	773.89
MW-13	9/18/1995	780.95	7.39	773.56
MW-13	10/10/1995	780.95	6.97	773.98
MW-13	11/9/1995	780.95	6.72	774.23
MW-13	12/14/1995	780.95	6.51	774.44
MW-13	1/5/1996	780.95	6.29	774.66
MW-13	2/16/1996	780.95	16.21	764.74
MW-13	3/21/1996	780.95	5.44	775.51
MW-13	4/19/1996	780.95	5.37	775.58
MW-13	5/8/1996	780.95	5.03	775.92
MW-13	6/7/1996	780.95	5.79	775.16
MW-13	7/19/1996	780.95	6.52	774.43
MW-13	8/8/1996	780.95	6.63	774.32
MW-13	9/5/1996	780.95	6.59	774.36
MW-13	10/16/1996	780.95	6.74	774.21
MW-13	11/14/1996	780.95	6.68	774.27
MW-13	12/3/1996	780.95	6.37	774.58
MW-13	1/7/1997	780.95	6.12	774.83
MW-13	2/25/1997	780.95	4.93	776.02
MW-13	3/17/1997	780.95	5.36	775.59
MW-13	4/9/1997	780.95	5.49	775.46
MW-13	5/15/1997	780.95	5.84	775.11
MW-13	6/16/1997	780.95	6.02	774.93
MW-13	8/5/1997	780.95	5.71	775.24
MW-13	8/25/1997	780.95	8.75	772.20
MW-13	9/11/1997	780.95	9.46	771.49
MW-13	10/10/1997	780.95	9.06	771.89
MW-13	11/18/1997	780.95	6.68	774.27
MW-13	12/18/1997	780.95	6.52	774.43
MW-13	1/30/1998	780.95	3.86	777.09
MW-13	2/26/1998	780.95	4.88	776.07
MW-13	5/18/1998	780.95	4.95	776.00
MW-13	12/21/1998	780.95	8.62	772.33
MW-13	1/7/1999	780.95	5.31	775.64
MW-13	5/6/1999	780.95	5.56	775.39
MW-13	5/6/1999	780.95	5.53	775.42
MW-13	5/19/1999	780.95	5.71	775.24
MW-13	6/21/1999	780.95	5.32	775.63
MW-13	7/15/1999	780.95	5.06	775.89
MW-13	11/9/1999	780.95	7.75	773.20
MW-13	5/17/2000	780.95	5.50	775.45
MW-13	11/27/2000	780.95	7.44	773.51
MW-13	5/8/2001	780.95	6.10	774.85
MW-13	10/24/2001	780.95	10.20	770.75
MW-13	5/14/2002	780.95	5.80	775.15
MW-13	9/30/2002	780.95	7.09	773.86
MW-13	4/29/2003	780.95	3.84	777.11
MW-13	10/13/2003	780.95	4.14	776.81
MW-13	4/7/2004	780.95	3.80	777.15
MW-13	10/11/2004	780.95	4.35	776.60
MW-13	6/6/2005	780.95	3.72	777.23
MW-13	10/11/2005	780.95	3.93	777.02
MW-13	2/22/2006	780.94	3.42	777.52
MW-13	4/18/2006	780.94	4.20	776.74

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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-13	5/10/2006	780.94	4.13	776.81
MW-13	10/31/2006	780.94	4.11	776.83
MW-13	11/20/2006	780.94	4.01	776.93
MW-13	5/2/2007	780.94	3.60	777.34
MW-13	10/22/2007	780.94	6.72	774.22
MW-13	4/23/2008	780.94	4.54	776.40
MW-13	10/8/2008	780.94	5.42	775.52
MW-13	10/13/2009	780.94	4.53	776.41
MW-13	7/12/2010	780.94	5.28	775.66
MW-13	7/13/2010	780.94	4.55	776.39
MW-13	7/13/2011	780.94	4.33	776.61
MW-13	7/16/2012	780.94	4.67	776.27
MW-13	7/15/2013	780.94	4.29	776.65
MW-13	6/25/2014	780.94	4.30	776.64
MW-13	7/15/2015	780.94	5.71	775.23
MW-14	5/23/1995	786.37	17.13	769.24
MW-14	6/15/1995	786.37	17.20	769.17
MW-14	7/6/1995	786.37	12.46	773.91
MW-14	8/4/1995	786.37	12.39	773.98
MW-14	9/18/1995	786.37	12.74	773.63
MW-14	10/10/1995	786.37	12.63	773.74
MW-14	11/9/1995	786.37	13.57	772.80
MW-14	12/14/1995	786.37	13.64	772.73
MW-14	1/5/1996	786.37	13.26	773.11
MW-14	2/16/1996	786.37	14.81	771.56
MW-14	3/21/1996	786.37	14.67	771.70
MW-14	4/19/1996	786.37	14.52	771.85
MW-14	5/8/1996	786.37	14.79	771.58
MW-14	6/7/1996	786.37	NM	NA
MW-14	7/19/1996	786.37	14.75	771.62
MW-14	8/8/1996	786.37	14.73	771.64
MW-14	9/5/1996	786.37	14.68	771.69
MW-14	10/16/1996	786.37	14.65	771.72
MW-14	11/14/1996	786.37	14.65	771.72
MW-14	12/3/1996	786.37	14.63	771.74
MW-14	1/7/1997	786.37	14.61	771.76
MW-14	2/25/1997	786.37	15.01	771.36
MW-14	3/17/1997	786.37	15.21	771.16
MW-14	4/9/1997	786.37	14.83	771.54
MW-14	5/15/1997	786.37	14.73	771.64
MW-14	6/16/1997	786.37	14.48	771.89
MW-14	8/5/1997	786.37	14.85	771.52
MW-14	8/25/1997	786.37	14.76	771.61
MW-14	9/11/1997	786.37	14.97	771.40
MW-14	10/10/1997	786.37	14.81	771.56
MW-14	11/18/1997	786.37	15.26	771.11
MW-14	12/18/1997	786.37	15.58	770.79
MW-14	1/30/1998	786.37	15.07	771.30
MW-14	2/26/1998	786.37	13.86	772.51
MW-14	5/18/1998	786.37	12.48	773.89
MW-14	12/21/1998	786.37	15.31	771.06
MW-14	1/7/1999	786.37	14.98	771.39
MW-14	5/6/1999	786.37	14.62	771.75
MW-14	5/6/1999	786.37	14.60	771.77
MW-14	5/19/1999	786.37	14.59	771.78
MW-14	6/21/1999	786.37	14.45	771.92

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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-14	7/15/1999	786.37	14.27	772.10
MW-14	11/9/1999	786.37	15.15	771.22
MW-14	5/17/2000	786.37	14.96	771.41
MW-14	11/27/2000	786.37	15.74	770.63
MW-14	5/8/2001	786.37	15.44	770.93
MW-14	10/24/2001	786.37	15.41	770.96
MW-14	5/14/2002	786.37	15.94	770.43
MW-14	9/30/2002	786.37	15.70	770.67
MW-14	4/29/2003	786.37	14.84	771.53
MW-14	10/13/2003	786.37	12.11	774.26
MW-14	4/7/2004	786.37	13.20	773.17
MW-14	10/11/2004	786.37	NM	NA
MW-14	6/7/2005	786.37	13.28	773.09
MW-14	10/11/2005	786.37	13.60	772.77
MW-14	2/22/2006	786.31	14.87	771.44
MW-14	4/18/2006	786.31	14.42	771.89
MW-14	5/10/2006	786.31	15.06	771.25
MW-14	10/31/2006	786.31	14.40	771.91
MW-14	11/20/2006	786.31	13.90	772.41
MW-14	5/2/2007	786.31	13.95	772.36
MW-14	6/14/2007	786.31	13.50	772.81
MW-14	10/22/2007	786.31	14.61	771.70
MW-14	4/23/2008	786.31	15.82	770.49
MW-14	10/8/2008	786.31	15.05	771.26
MW-14	10/13/2009	786.31	14.43	771.88
MW-14	7/12/2010	786.31	12.85	773.46
MW-14	7/13/2010	786.31	12.77	773.54
MW-14	7/13/2011	786.31	12.45	773.86
MW-14	7/16/2012	786.31	13.84	772.47
MW-14	7/15/2013	786.31	14.14	772.17
MW-14	6/25/2014	786.31	12.77	773.54
MW-14	7/15/2015	786.31	13.21	773.10
MW-15	5/6/1999	786.67	19.90	766.77
MW-15	5/6/1999	786.67	17.65	769.02
MW-15	5/19/1999	786.67	18.59	768.08
MW-15	6/21/1999	786.67	19.44	767.23
MW-15	7/15/1999	786.67	19.43	767.24
MW-15	11/9/1999	786.67	20.69	765.98
MW-15	5/17/2000	786.67	19.80	766.87
MW-15	11/27/2000	786.67	23.06	763.61
MW-15	5/8/2001	786.67	20.64	766.03
MW-15	10/24/2001	786.67	24.42	762.25
MW-15	5/14/2002	786.67	19.53	767.14
MW-15	9/30/2002	786.67	23.78	762.89
MW-15	4/30/2003	786.67	19.65	767.02
MW-15	10/13/2003	786.67	14.74	771.93
MW-15	4/7/2004	786.67	13.17	773.50
MW-15	10/11/2004	786.67	22.52	764.15
MW-15	10/11/2005	786.67	17.21	769.46
MW-15	2/22/2006	786.67	14.66	772.01
MW-15	4/18/2006	786.67	19.76	766.91
MW-15	5/10/2006	786.67	14.70	771.97
MW-15	10/31/2006	786.67	15.24	771.43
MW-15	11/20/2006	786.67	14.72	771.95
MW-15	5/2/2007	786.67	13.18	773.49
MW-15	6/14/2007	786.67	15.00	771.67

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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
MW-15	10/22/2007	786.67	18.48	768.19
MW-15	4/23/2008	786.67	19.85	766.82
MW-15	10/8/2008	786.67	22.45	764.22
MW-15	10/13/2009	786.67	16.45	770.22
MW-15	7/12/2010	786.67	22.73	763.94
MW-15	7/13/2010	786.67	15.72	770.95
MW-15	7/13/2011	786.67	21.06	765.61
MW-15	7/16/2012	786.67	NM	NA
MW-15	7/15/2013	786.67	21.10	765.57
MW-15	6/24/2014	786.67	16.72	769.95
MW-15	7/15/2015	786.67	24.29	762.38
PZ-01	4/19/1995	778.59	8.73	769.86
PZ-01	6/15/1995	780.00	2.63	777.37
PZ-01	7/6/1995	778.88	2.67	776.21
PZ-01	8/4/1995	778.88	5.32	773.56
PZ-01	9/18/1995	778.88	5.69	773.19
PZ-01	10/10/1995	778.88	5.60	773.28
PZ-01	11/9/1995	778.88	4.93	773.95
PZ-01	12/14/1995	778.88	4.97	773.91
PZ-01	1/5/1996	778.88	3.15	775.73
PZ-01	2/16/1996	778.88	3.86	775.02
PZ-01	3/21/1996	778.88	4.01	774.87
PZ-01	4/19/1996	778.88	5.86	773.02
PZ-01	5/8/1996	778.88	4.13	774.75
PZ-01	6/7/1996	778.88	NM	NA
PZ-01	7/19/1996	778.88	4.93	773.95
PZ-01	8/8/1996	778.88	5.11	773.77
PZ-01	9/5/1996	778.88	4.63	774.25
PZ-01	10/16/1996	778.88	5.37	773.51
PZ-01	11/14/1996	778.88	5.74	773.14
PZ-01	12/3/1996	778.88	5.61	773.27
PZ-01	1/7/1997	778.88	5.15	773.73
PZ-01	2/25/1997	778.88	2.54	776.34
PZ-01	3/17/1997	778.88	3.67	775.21
PZ-01	4/9/1997	778.88	4.20	774.68
PZ-01	5/15/1997	778.88	4.97	773.91
PZ-01	6/16/1997	778.88	4.18	774.70
PZ-01	8/5/1997	778.88	3.89	774.99
PZ-01	8/25/1997	778.88	7.49	771.39
PZ-01	9/11/1997	778.88	3.17	775.71
PZ-01	10/10/1997	778.88	5.62	773.26
PZ-01	11/18/1997	778.88	5.54	773.34
PZ-01	12/18/1997	778.88	5.82	773.06
PZ-01	1/30/1998	778.88	4.00	774.88
PZ-01	2/26/1998	778.88	4.49	774.39
PZ-01	5/18/1998	778.88	4.57	774.31
PZ-01	12/21/1998	778.88	5.44	773.44
PZ-01	5/6/1999	778.88	NM	NA
PZ-01	5/6/1999	778.88	NM	NA
PZ-01	5/19/1999	778.88	NM	NA
PZ-01	6/21/1999	778.88	5.35	773.53
PZ-01	7/15/1999	778.88	5.17	773.71
PZ-01	11/9/1999	778.88	6.07	772.81
PZ-01	5/17/2000	778.88	NM	NA
PZ-01	11/27/2000	778.88	7.15	771.73
PZ-01	5/8/2001	778.88	5.22	773.66

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WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
PZ-01	10/24/2001	778.88	8.89	769.99
PZ-01	5/14/2002	778.88	5.14	773.74
PZ-01	9/30/2002	778.88	5.08	773.80
PZ-01	4/29/2003	778.88	4.15	774.73
PZ-01	4/7/2004	778.88	4.69	774.19
PZ-01	10/11/2004	778.88	NM	NA
PZ-01	2/22/2006	778.88	4.63	774.25
PZ-01	7/13/2011	778.88	5.03	773.85
PZ-02	4/19/1995	779.39	6.18	773.21
PZ-02	6/15/1995	780.00	4.42	775.58
PZ-02	7/6/1995	778.53	4.19	774.34
PZ-02	8/4/1995	778.53	6.11	772.42
PZ-02	9/18/1995	778.53	6.58	771.95
PZ-02	10/10/1995	778.53	6.23	772.30
PZ-02	11/9/1995	778.53	4.71	773.82
PZ-02	12/14/1995	778.53	5.71	772.82
PZ-02	1/5/1996	778.53	3.29	775.24
PZ-02	2/16/1996	778.53	3.92	774.61
PZ-02	3/21/1996	778.53	4.03	774.50
PZ-02	4/19/1996	778.53	7.10	771.43
PZ-02	5/8/1996	778.53	6.72	771.81
PZ-02	6/7/1996	778.53	5.00	773.53
PZ-02	7/19/1996	778.53	6.29	772.24
PZ-02	8/8/1996	778.53	6.27	772.26
PZ-02	9/5/1996	778.53	5.84	772.69
PZ-02	10/16/1996	778.53	6.11	772.42
PZ-02	11/14/1996	778.53	6.46	772.07
PZ-02	12/3/1996	778.53	6.17	772.36
PZ-02	1/7/1997	778.53	5.53	773.00
PZ-02	2/25/1997	778.53	3.74	774.79
PZ-02	3/17/1997	778.53	4.29	774.24
PZ-02	4/9/1997	778.53	4.41	774.12
PZ-02	5/15/1997	778.53	5.47	773.06
PZ-02	6/16/1997	778.53	6.00	772.53
PZ-02	8/5/1997	778.53	4.13	774.40
PZ-02	8/25/1997	778.53	8.63	769.90
PZ-02	9/11/1997	778.53	8.92	769.61
PZ-02	10/10/1997	778.53	8.41	770.12
PZ-02	11/18/1997	778.53	6.76	771.77
PZ-02	12/18/1997	778.53	5.69	772.84
PZ-02	1/30/1998	778.53	1.98	776.55
PZ-02	2/26/1998	778.53	4.62	773.91
PZ-02	5/18/1998	778.53	4.48	774.05
PZ-02	12/21/1998	778.53	7.21	771.32
PZ-02	5/6/1999	778.53	4.28	774.25
PZ-02	5/6/1999	778.53	4.31	774.22
PZ-02	5/19/1999	778.53	5.24	773.29
PZ-02	6/21/1999	778.53	6.23	772.30
PZ-02	7/15/1999	778.53	5.49	773.04
PZ-02	11/9/1999	778.53	7.01	771.52
PZ-02	5/17/2000	778.53	5.51	773.02
PZ-02	11/27/2000	778.53	8.20	770.33
PZ-02	5/8/2001	778.53	5.92	772.61
PZ-02	10/24/2001	778.53	10.31	768.22
PZ-02	5/14/2002	778.53	6.16	772.37
PZ-02	9/30/2002	778.53	8.56	769.97

APPENDIX A
HISTORICAL GROUNDWATER ELEVATION DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
PZ-02	4/29/2003	778.53	2.63	775.90
PZ-02	10/13/2003	778.53	5.23	773.30
PZ-02	4/7/2004	778.53	2.28	776.25
PZ-02	10/11/2004	778.53	NM	NA
PZ-02	2/22/2006	778.53	2.65	775.88
PZ-02	4/18/2006	778.53	4.12	774.41
PZ-02	5/10/2006	778.53	5.21	773.32
PZ-02	10/31/2006	778.53	6.50	772.03
PZ-02	11/20/2006	778.53	2.86	775.67
PZ-02	5/2/2007	778.53	4.51	774.02
PZ-02	10/22/2007	778.53	10.03	768.50
PZ-02	4/23/2008	778.53	3.76	774.77
PZ-02	10/8/2008	778.53	7.87	770.66
PZ-02	10/13/2009	778.53	3.56	774.97
PZ-02	7/12/2010	778.53	7.66	770.87
PZ-02	7/13/2010	778.53	7.69	770.84
PZ-02	7/13/2011	778.53	4.97	773.56
PZ-03	4/19/1995	779.64	5.53	774.11
PZ-03	6/15/1995	780.00	2.39	777.61
PZ-03	7/6/1995	778.84	2.20	776.64
PZ-03	8/4/1995	778.84	4.81	774.03
PZ-03	9/18/1995	778.84	3.09	775.75
PZ-03	10/10/1995	778.84	3.44	775.40
PZ-03	11/9/1995	778.84	2.15	776.69
PZ-03	12/14/1995	778.84	3.97	774.87
PZ-03	1/5/1996	778.84	3.45	775.39
PZ-03	2/16/1996	778.84	5.96	772.88
PZ-03	3/21/1996	778.84	5.72	773.12
PZ-03	4/19/1996	778.84	5.40	773.44
PZ-03	5/8/1996	778.84	5.59	773.25
PZ-03	6/7/1996	778.84	6.00	772.84
PZ-03	7/19/1996	778.84	5.54	773.30
PZ-03	8/8/1996	778.84	6.38	772.46
PZ-03	9/5/1996	778.84	5.72	773.12
PZ-03	10/16/1996	778.84	5.88	772.96
PZ-03	11/14/1996	778.84	6.27	772.57
PZ-03	12/3/1996	778.84	5.93	772.91
PZ-03	1/7/1997	778.84	5.26	773.58
PZ-03	2/25/1997	778.84	3.69	775.15
PZ-03	3/17/1997	778.84	5.48	773.36
PZ-03	4/9/1997	778.84	5.24	773.60
PZ-03	5/15/1997	778.84	6.59	772.25
PZ-03	6/16/1997	778.84	5.43	773.41
PZ-03	8/5/1997	778.84	5.07	773.77
PZ-03	8/25/1997	778.84	8.11	770.73
PZ-03	9/11/1997	778.84	8.71	770.13
PZ-03	10/10/1997	778.84	8.20	770.64
PZ-03	11/18/1997	778.84	5.04	773.80
PZ-03	12/18/1997	778.84	5.36	773.48
PZ-03	1/30/1998	778.84	3.01	775.83
PZ-03	2/26/1998	778.84	12.29	766.55
PZ-03	5/18/1998	778.84	4.65	774.19
PZ-03	12/21/1998	778.84	7.47	771.37
PZ-03	5/6/1999	778.84	3.65	775.19
PZ-03	5/6/1999	778.84	3.69	775.15
PZ-03	5/19/1999	778.84	3.21	775.63

APPENDIX A
HISTORICAL GROUNDWATER ELEVATION DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
PZ-03	6/21/1999	778.84	2.83	776.01
PZ-03	7/15/1999	778.84	2.36	776.48
PZ-03	11/9/1999	778.84	4.51	774.33
PZ-03	5/17/2000	778.84	3.16	775.68
PZ-03	11/27/2000	778.84	2.61	776.23
PZ-03	5/8/2001	778.84	3.56	775.28
PZ-03	10/24/2001	778.84	10.00	768.84
PZ-03	5/14/2002	778.84	1.28	777.56
PZ-03	9/30/2002	778.84	2.74	776.10
PZ-03	4/29/2003	778.84	1.65	777.19
PZ-03	10/13/2003	778.84	1.92	776.92
PZ-03	4/7/2004	778.84	1.56	777.28
PZ-03	10/11/2004	778.84	2.30	776.54
PZ-03	2/22/2006	778.84	1.58	777.26
PZ-03	4/18/2006	778.84	2.56	776.28
PZ-03	5/10/2006	778.84	2.43	776.41
PZ-03	10/31/2006	778.84	6.50	772.34
PZ-03	11/20/2006	778.84	1.86	776.98
PZ-03	5/2/2007	778.84	2.17	776.67
PZ-03	10/22/2007	778.84	8.97	769.87
PZ-03	4/23/2008	778.84	3.85	774.99
PZ-03	10/8/2008	778.84	3.05	775.79
PZ-03	10/13/2009	778.84	3.43	775.41
PZ-03	7/12/2010	778.84	5.00	773.84
PZ-03	7/13/2010	778.84	1.80	777.04
PZ-03	7/13/2011	778.84	2.98	775.86
PZ-04	4/19/1995	779.71	4.15	775.56
PZ-04	6/15/1995	780.00	2.92	777.08
PZ-04	7/6/1995	780.38	2.52	777.86
PZ-04	8/4/1995	780.38	2.67	777.71
PZ-04	9/18/1995	780.38	2.23	778.15
PZ-04	10/10/1995	780.38	5.34	775.04
PZ-04	11/9/1995	780.38	2.63	777.75
PZ-04	12/14/1995	780.38	3.46	776.92
PZ-04	1/5/1996	780.38	2.96	777.42
PZ-04	2/16/1996	780.38	1.03	779.35
PZ-04	3/21/1996	780.38	1.93	778.45
PZ-04	4/19/1996	780.38	2.73	777.65
PZ-04	5/8/1996	780.38	2.67	777.71
PZ-04	6/7/1996	780.38	4.30	776.08
PZ-04	7/19/1996	780.38	1.56	778.82
PZ-04	8/8/1996	780.38	4.34	776.04
PZ-04	9/5/1996	780.38	2.61	777.77
PZ-04	10/16/1996	780.38	6.37	774.01
PZ-04	11/14/1996	780.38	6.22	774.16
PZ-04	12/3/1996	780.38	5.73	774.65
PZ-04	1/7/1997	780.38	5.28	775.10
PZ-04	2/25/1997	780.38	2.78	777.60
PZ-04	3/17/1997	780.38	2.96	777.42
PZ-04	4/9/1997	780.38	4.00	776.38
PZ-04	5/15/1997	780.38	4.95	775.43
PZ-04	6/16/1997	780.38	3.42	776.96
PZ-04	8/5/1997	780.38	2.61	777.77
PZ-04	8/25/1997	780.38	8.25	772.13
PZ-04	9/11/1997	780.38	3.91	776.47
PZ-04	10/10/1997	780.38	4.63	775.75

APPENDIX A
HISTORICAL GROUNDWATER ELEVATION DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

WELL ID	DATE	TOC ELEVATION (FT MSL)	DEPTH TO WATER (FT TOC)	WATER ELEVATION (FT MSL)
PZ-04	11/18/1997	780.38	4.58	775.80
PZ-04	12/18/1997	780.38	5.39	774.99
PZ-04	1/30/1998	780.38	2.22	778.16
PZ-04	2/26/1998	780.38	1.38	779.00
PZ-04	5/18/1998	780.38	4.28	776.10
PZ-04	12/21/1998	780.38	NM	NA
PZ-04	5/6/1999	780.38	NM	NA
PZ-04	5/6/1999	780.38	NM	NA
PZ-04	5/19/1999	780.38	NM	NA
PZ-04	7/15/1999	780.38	NM	NA
PZ-04	11/9/1999	780.38	NM	NA
PZ-04	5/17/2000	780.38	NM	NA
PZ-04	11/27/2000	780.38	NM	NA
PZ-04	7/13/2011	780.38	3.72	776.66

TOC - Top of Casing
FT MSL - Feet above Mean Sea Level
FT TOC - Feet below Top of Casing
NM - Not Measured
NA - Not Available
Monitoring wells MW-03 and MW-07 were re-surveyed on 7/17/12 following well casing repairs.

Appendix B

Hydraulic Gradient Calculations

APPENDIX B
HORIZONTAL HYDRAULIC GRADIENT CALCULATIONS
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

GROUNDWATER FLOW DIRECTION	MONITORING WELL PAIR	DATE	SWL (FT)	H (FT)	L (FT)	HYDRAULIC GRADIENT (FT/FT)[1]
WEST	MW-03	7/15/2015	772.89	4.64	184	0.0252
	MW-04	7/15/2015	768.25			
NORTH	MW-12	7/15/2015	771.92	3.67	113	0.0325
	MW-04	7/15/2015	768.25			
					SITE AVERAGE:	0.0288

Notes:

[1] Hydraulic gradient = $\Delta H/L$
L Length between two wells
H Elevation head difference between two wells
SWL Static water levels in feet mean sea level

Appendix C

Laboratory Analytical Report and Chain-of-Custody Record

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

July 28, 2015

Mr. Gary Ribblett
Antea Group
8008 Corporate Center Dr
Suite #100
Charlotte, NC 28226

RE: Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Dear Mr. Ribblett:
Enclosed are the analytical results for sample(s) received by the laboratory on July 17, 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,

Trey Carter
trey.carter@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92259360001	**DW-01**	Water	07/15/15 15:05	07/17/15 16:00
92259360002	**DW-02**	Water	07/16/15 09:45	07/17/15 16:00
92259360003	**DW-03**	Water	07/16/15 14:15	07/17/15 16:00
92259360004	**DW-04**	Water	07/15/15 16:20	07/17/15 16:00
92259360005	**DW-05**	Water	07/15/15 12:05	07/17/15 16:00
92259360006	**MW-01**	Water	07/16/15 10:20	07/17/15 16:00
92259360007	**MW-02**	Water	07/16/15 09:20	07/17/15 16:00
92259360008	**MW-02BR**	Water	07/15/15 17:35	07/17/15 16:00
92259360009	**MW-03**	Water	07/16/15 10:35	07/17/15 16:00
92259360010	**MW-04**	Water	07/15/15 15:35	07/17/15 16:00
92259360011	**MW-05**	Water	07/16/15 11:40	07/17/15 16:00
92259360012	**MW-06**	Water	07/16/15 10:05	07/17/15 16:00
92259360013	**MW-07**	Water	07/16/15 11:15	07/17/15 16:00
92259360014	**MW-08**	Water	07/15/15 17:05	07/17/15 16:00
92259360015	**MW-09**	Water	07/15/15 17:50	07/17/15 16:00
92259360016	**MW-10**	Water	07/16/15 14:10	07/17/15 16:00
92259360017	**MW-11**	Water	07/15/15 11:15	07/17/15 16:00
92259360018	**MW-12**	Water	07/15/15 12:40	07/17/15 16:00
92259360019	**MW-13**	Water	07/16/15 11:55	07/17/15 16:00
92259360020	**MW-14**	Water	07/15/15 16:45	07/17/15 16:00
92259360021	**MW-15**	Water	07/16/15 08:55	07/17/15 16:00
92259360022	**DUP-1**	Water	07/15/15 00:00	07/17/15 16:00
92259360023	**EQUIP BLANK**	Water	07/15/15 11:20	07/17/15 16:00
92259360024	**TRIP BLANK**	Water	07/15/15 00:00	07/17/15 16:00

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SAMPLE ANALYTE COUNT

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92259360001	**DW-01**	EPA 8260	CAH	63	PASI-C
92259360002	**DW-02**	EPA 8260	CAH	63	PASI-C
92259360003	**DW-03**	EPA 8260	CAH	63	PASI-C
92259360004	**DW-04**	EPA 8260	CAH	63	PASI-C
92259360005	**DW-05**	EPA 8260	CAH	9	PASI-C
92259360006	**MW-01**	EPA 8260	CAH	63	PASI-C
92259360007	**MW-02**	EPA 8260	CAH	63	PASI-C
92259360008	**MW-02BR**	EPA 8260	CAH	63	PASI-C
92259360009	**MW-03**	EPA 8260	CAH	63	PASI-C
92259360010	**MW-04**	EPA 8260	CAH	63	PASI-C
92259360011	**MW-05**	EPA 8260	CAH	63	PASI-C
92259360012	**MW-06**	EPA 8260	CAH	63	PASI-C
92259360013	**MW-07**	EPA 8260	CAH	63	PASI-C
92259360014	**MW-08**	EPA 8260	CAH	63	PASI-C
92259360015	**MW-09**	EPA 8260	CAH	63	PASI-C
92259360016	**MW-10**	EPA 8260	CAH	63	PASI-C
92259360017	**MW-11**	EPA 8260	CAH	9	PASI-C
92259360018	**MW-12**	EPA 8260	CAH	9	PASI-C
92259360019	**MW-13**	EPA 8260	CAH	63	PASI-C
92259360020	**MW-14**	EPA 8260	CAH	9	PASI-C
92259360021	**MW-15**	EPA 8260	CAH	63	PASI-C
92259360022	**DUP-1**	EPA 8260	CAH	63	PASI-C
92259360023	**EQUIP BLANK**	EPA 8260	CAH	63	PASI-C
92259360024	**TRIP BLANK**	EPA 8260	CAH	63	PASI-C

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: DW-01 **Lab ID: 92259360001** Collected: 07/15/15 15:05 Received: 07/17/15 16:00 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		07/23/15 21:34	67-64-1	
Benzene	ND	ug/L	1.0	1		07/23/15 21:34	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/23/15 21:34	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/23/15 21:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/23/15 21:34	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/23/15 21:34	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/23/15 21:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/23/15 21:34	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/23/15 21:34	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/23/15 21:34	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/23/15 21:34	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/23/15 21:34	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/23/15 21:34	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/23/15 21:34	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/23/15 21:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/23/15 21:34	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/23/15 21:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/23/15 21:34	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/23/15 21:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 21:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 21:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 21:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/23/15 21:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/23/15 21:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/23/15 21:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/23/15 21:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/23/15 21:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/23/15 21:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/23/15 21:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/23/15 21:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/23/15 21:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/23/15 21:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/23/15 21:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/23/15 21:34	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/23/15 21:34	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/23/15 21:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/23/15 21:34	87-68-3	L3,M0
2-Hexanone	ND	ug/L	5.0	1		07/23/15 21:34	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/23/15 21:34	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/23/15 21:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/23/15 21:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/23/15 21:34	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/23/15 21:34	91-20-3	
Styrene	ND	ug/L	1.0	1		07/23/15 21:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/23/15 21:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/23/15 21:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/23/15 21:34	127-18-4	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: DW-01 **Lab ID: 92259360001** Collected: 07/15/15 15:05 Received: 07/17/15 16:00 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		07/23/15 21:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/23/15 21:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/23/15 21:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/23/15 21:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/23/15 21:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/23/15 21:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/23/15 21:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/23/15 21:34	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/23/15 21:34	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/23/15 21:34	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/23/15 21:34	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/23/15 21:34	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/23/15 21:34	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		07/23/15 21:34	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		07/23/15 21:34	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		07/23/15 21:34	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: DW-02 **Lab ID: 92259360002** Collected: 07/16/15 09:45 Received: 07/17/15 16:00 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		07/23/15 21:51	67-64-1	
Benzene	ND	ug/L	1.0	1		07/23/15 21:51	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/23/15 21:51	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/23/15 21:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/23/15 21:51	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/23/15 21:51	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/23/15 21:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/23/15 21:51	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/23/15 21:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/23/15 21:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/23/15 21:51	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/23/15 21:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/23/15 21:51	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/23/15 21:51	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/23/15 21:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/23/15 21:51	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/23/15 21:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/23/15 21:51	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/23/15 21:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 21:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 21:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 21:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/23/15 21:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/23/15 21:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/23/15 21:51	107-06-2	
1,1-Dichloroethene	**11.3**	ug/L	1.0	1		07/23/15 21:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/23/15 21:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/23/15 21:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/23/15 21:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/23/15 21:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/23/15 21:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/23/15 21:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/23/15 21:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/23/15 21:51	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/23/15 21:51	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/23/15 21:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/23/15 21:51	87-68-3	L3
2-Hexanone	ND	ug/L	5.0	1		07/23/15 21:51	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/23/15 21:51	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/23/15 21:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/23/15 21:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/23/15 21:51	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/23/15 21:51	91-20-3	
Styrene	ND	ug/L	1.0	1		07/23/15 21:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/23/15 21:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/23/15 21:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/23/15 21:51	127-18-4	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: DW-02 **Lab ID: 92259360002** Collected: 07/16/15 09:45 Received: 07/17/15 16:00 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		07/23/15 21:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/23/15 21:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/23/15 21:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/23/15 21:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/23/15 21:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/23/15 21:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/23/15 21:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/23/15 21:51	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/23/15 21:51	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/23/15 21:51	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/23/15 21:51	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/23/15 21:51	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/23/15 21:51	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		07/23/15 21:51	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		07/23/15 21:51	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		07/23/15 21:51	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: DW-03 **Lab ID: 92259360003** Collected: 07/16/15 14:15 Received: 07/17/15 16:00 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		07/23/15 22:25	67-64-1	
Benzene	ND	ug/L	1.0	1		07/23/15 22:25	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/23/15 22:25	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/23/15 22:25	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/23/15 22:25	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/23/15 22:25	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/23/15 22:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/23/15 22:25	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/23/15 22:25	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/23/15 22:25	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/23/15 22:25	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/23/15 22:25	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/23/15 22:25	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/23/15 22:25	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/23/15 22:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/23/15 22:25	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/23/15 22:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/23/15 22:25	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/23/15 22:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 22:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 22:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 22:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/23/15 22:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/23/15 22:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/23/15 22:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/23/15 22:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/23/15 22:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/23/15 22:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/23/15 22:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/23/15 22:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/23/15 22:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/23/15 22:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/23/15 22:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/23/15 22:25	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/23/15 22:25	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/23/15 22:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/23/15 22:25	87-68-3	L3
2-Hexanone	ND	ug/L	5.0	1		07/23/15 22:25	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/23/15 22:25	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/23/15 22:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/23/15 22:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/23/15 22:25	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/23/15 22:25	91-20-3	
Styrene	ND	ug/L	1.0	1		07/23/15 22:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/23/15 22:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/23/15 22:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/23/15 22:25	127-18-4	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: DW-03 **Lab ID: 92259360003** Collected: 07/16/15 14:15 Received: 07/17/15 16:00 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		07/23/15 22:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/23/15 22:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/23/15 22:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/23/15 22:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/23/15 22:25	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/23/15 22:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/23/15 22:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/23/15 22:25	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/23/15 22:25	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/23/15 22:25	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/23/15 22:25	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/23/15 22:25	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/23/15 22:25	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		07/23/15 22:25	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		07/23/15 22:25	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		07/23/15 22:25	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: DW-04 **Lab ID: 92259360004** Collected: 07/15/15 16:20 Received: 07/17/15 16:00 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		07/23/15 22:42	67-64-1	
Benzene	ND	ug/L	1.0	1		07/23/15 22:42	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/23/15 22:42	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/23/15 22:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/23/15 22:42	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/23/15 22:42	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/23/15 22:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/23/15 22:42	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/23/15 22:42	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/23/15 22:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/23/15 22:42	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/23/15 22:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/23/15 22:42	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/23/15 22:42	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/23/15 22:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/23/15 22:42	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/23/15 22:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/23/15 22:42	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/23/15 22:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 22:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 22:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 22:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/23/15 22:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/23/15 22:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/23/15 22:42	107-06-2	
1,1-Dichloroethene	**5.6**	ug/L	1.0	1		07/23/15 22:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/23/15 22:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/23/15 22:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/23/15 22:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/23/15 22:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/23/15 22:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/23/15 22:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/23/15 22:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/23/15 22:42	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/23/15 22:42	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/23/15 22:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/23/15 22:42	87-68-3	L3
2-Hexanone	ND	ug/L	5.0	1		07/23/15 22:42	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/23/15 22:42	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/23/15 22:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/23/15 22:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/23/15 22:42	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/23/15 22:42	91-20-3	
Styrene	ND	ug/L	1.0	1		07/23/15 22:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/23/15 22:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/23/15 22:42	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/23/15 22:42	127-18-4	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: DW-04 **Lab ID: 92259360004** Collected: 07/15/15 16:20 Received: 07/17/15 16:00 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		07/23/15 22:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/23/15 22:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/23/15 22:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/23/15 22:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/23/15 22:42	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/23/15 22:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/23/15 22:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/23/15 22:42	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/23/15 22:42	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/23/15 22:42	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/23/15 22:42	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/23/15 22:42	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/23/15 22:42	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1		07/23/15 22:42	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		07/23/15 22:42	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		07/23/15 22:42	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: DW-05 **Lab ID: 92259360005** Collected: 07/15/15 12:05 Received: 07/17/15 16:00 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		07/23/15 22:59	67-64-1	
Chloroethane	ND	ug/L	1.0	1		07/23/15 22:59	75-00-3	
1,1-Dichloroethane	**1.4**	ug/L	1.0	1		07/23/15 22:59	75-34-3	
1,1-Dichloroethene	**7.0**	ug/L	1.0	1		07/23/15 22:59	75-35-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/23/15 22:59	71-55-6	
Vinyl chloride	ND	ug/L	1.0	1		07/23/15 22:59	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		07/23/15 22:59	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		07/23/15 22:59	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		07/23/15 22:59	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-01 **Lab ID: 92259360006** Collected: 07/16/15 10:20 Received: 07/17/15 16:00 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		07/23/15 23:16	67-64-1	
Benzene	ND	ug/L	1.0	1		07/23/15 23:16	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/23/15 23:16	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/23/15 23:16	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/23/15 23:16	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/23/15 23:16	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/23/15 23:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/23/15 23:16	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/23/15 23:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/23/15 23:16	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/23/15 23:16	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/23/15 23:16	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/23/15 23:16	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/23/15 23:16	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/23/15 23:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/23/15 23:16	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/23/15 23:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/23/15 23:16	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/23/15 23:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 23:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 23:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 23:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/23/15 23:16	75-71-8	
1,1-Dichloroethane	**1.3**	ug/L	1.0	1		07/23/15 23:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/23/15 23:16	107-06-2	
1,1-Dichloroethene	**63.3**	ug/L	1.0	1		07/23/15 23:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/23/15 23:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/23/15 23:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/23/15 23:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/23/15 23:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/23/15 23:16	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/23/15 23:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/23/15 23:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/23/15 23:16	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/23/15 23:16	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/23/15 23:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/23/15 23:16	87-68-3	L3
2-Hexanone	ND	ug/L	5.0	1		07/23/15 23:16	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/23/15 23:16	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/23/15 23:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/23/15 23:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/23/15 23:16	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/23/15 23:16	91-20-3	
Styrene	ND	ug/L	1.0	1		07/23/15 23:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/23/15 23:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/23/15 23:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/23/15 23:16	127-18-4	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-01 **Lab ID: 92259360006** Collected: 07/16/15 10:20 Received: 07/17/15 16:00 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		07/23/15 23:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/23/15 23:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/23/15 23:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/23/15 23:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/23/15 23:16	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/23/15 23:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/23/15 23:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/23/15 23:16	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/23/15 23:16	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/23/15 23:16	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/23/15 23:16	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/23/15 23:16	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/23/15 23:16	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		07/23/15 23:16	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		07/23/15 23:16	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		07/23/15 23:16	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-02 **Lab ID: 92259360007** Collected: 07/16/15 09:20 Received: 07/17/15 16:00 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		07/23/15 23:33	67-64-1	
Benzene	ND	ug/L	1.0	1		07/23/15 23:33	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/23/15 23:33	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/23/15 23:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/23/15 23:33	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/23/15 23:33	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/23/15 23:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/23/15 23:33	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/23/15 23:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/23/15 23:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/23/15 23:33	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/23/15 23:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/23/15 23:33	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/23/15 23:33	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/23/15 23:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/23/15 23:33	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/23/15 23:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/23/15 23:33	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/23/15 23:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 23:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 23:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 23:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/23/15 23:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/23/15 23:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/23/15 23:33	107-06-2	
1,1-Dichloroethene	**48.2**	ug/L	1.0	1		07/23/15 23:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/23/15 23:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/23/15 23:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/23/15 23:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/23/15 23:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/23/15 23:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/23/15 23:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/23/15 23:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/23/15 23:33	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/23/15 23:33	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/23/15 23:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/23/15 23:33	87-68-3	L3
2-Hexanone	ND	ug/L	5.0	1		07/23/15 23:33	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/23/15 23:33	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/23/15 23:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/23/15 23:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/23/15 23:33	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/23/15 23:33	91-20-3	
Styrene	ND	ug/L	1.0	1		07/23/15 23:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/23/15 23:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/23/15 23:33	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/23/15 23:33	127-18-4	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-02 **Lab ID: 92259360007** Collected: 07/16/15 09:20 Received: 07/17/15 16:00 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		07/23/15 23:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/23/15 23:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/23/15 23:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/23/15 23:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/23/15 23:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/23/15 23:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/23/15 23:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/23/15 23:33	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/23/15 23:33	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/23/15 23:33	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/23/15 23:33	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/23/15 23:33	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/23/15 23:33	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		07/23/15 23:33	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		07/23/15 23:33	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		07/23/15 23:33	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-02BR **Lab ID: 92259360008** Collected: 07/15/15 17:35 Received: 07/17/15 16:00 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		07/23/15 23:49	67-64-1	
Benzene	ND	ug/L	1.0	1		07/23/15 23:49	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/23/15 23:49	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/23/15 23:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/23/15 23:49	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/23/15 23:49	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/23/15 23:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/23/15 23:49	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/23/15 23:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/23/15 23:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/23/15 23:49	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/23/15 23:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/23/15 23:49	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/23/15 23:49	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/23/15 23:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/23/15 23:49	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/23/15 23:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/23/15 23:49	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/23/15 23:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 23:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 23:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/23/15 23:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/23/15 23:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/23/15 23:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/23/15 23:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/23/15 23:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/23/15 23:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/23/15 23:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/23/15 23:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/23/15 23:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/23/15 23:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/23/15 23:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/23/15 23:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/23/15 23:49	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/23/15 23:49	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/23/15 23:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/23/15 23:49	87-68-3	L3
2-Hexanone	ND	ug/L	5.0	1		07/23/15 23:49	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/23/15 23:49	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/23/15 23:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/23/15 23:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/23/15 23:49	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/23/15 23:49	91-20-3	
Styrene	ND	ug/L	1.0	1		07/23/15 23:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/23/15 23:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/23/15 23:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/23/15 23:49	127-18-4	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-02BR **Lab ID: 92259360008** Collected: 07/15/15 17:35 Received: 07/17/15 16:00 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		07/23/15 23:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/23/15 23:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/23/15 23:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/23/15 23:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/23/15 23:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/23/15 23:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/23/15 23:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/23/15 23:49	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/23/15 23:49	108-05-4	
Vinyl chloride	**1.7**	ug/L	1.0	1		07/23/15 23:49	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/23/15 23:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/23/15 23:49	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/23/15 23:49	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		07/23/15 23:49	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		07/23/15 23:49	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		07/23/15 23:49	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-03 **Lab ID: 92259360009** Collected: 07/16/15 10:35 Received: 07/17/15 16:00 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		07/24/15 00:07	67-64-1	
Benzene	ND	ug/L	1.0	1		07/24/15 00:07	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/24/15 00:07	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/24/15 00:07	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/24/15 00:07	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/24/15 00:07	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/24/15 00:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/24/15 00:07	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/24/15 00:07	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/24/15 00:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/24/15 00:07	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/24/15 00:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/24/15 00:07	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 00:07	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 00:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/24/15 00:07	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/24/15 00:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/24/15 00:07	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/24/15 00:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 00:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 00:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 00:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/24/15 00:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/24/15 00:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/24/15 00:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/24/15 00:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 00:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 00:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 00:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/24/15 00:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 00:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/24/15 00:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 00:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 00:07	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/24/15 00:07	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/24/15 00:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/24/15 00:07	87-68-3	L3
2-Hexanone	ND	ug/L	5.0	1		07/24/15 00:07	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/24/15 00:07	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/24/15 00:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/24/15 00:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/24/15 00:07	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/24/15 00:07	91-20-3	
Styrene	ND	ug/L	1.0	1		07/24/15 00:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 00:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 00:07	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/24/15 00:07	127-18-4	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-03 **Lab ID: 92259360009** Collected: 07/16/15 10:35 Received: 07/17/15 16:00 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		07/24/15 00:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 00:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 00:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/24/15 00:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/24/15 00:07	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/24/15 00:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/24/15 00:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/24/15 00:07	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/24/15 00:07	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/24/15 00:07	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/24/15 00:07	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/24/15 00:07	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/24/15 00:07	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		07/24/15 00:07	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		07/24/15 00:07	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		07/24/15 00:07	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-04 **Lab ID: 92259360010** Collected: 07/15/15 15:35 Received: 07/17/15 16:00 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		07/24/15 00:24	67-64-1	
Benzene	ND	ug/L	1.0	1		07/24/15 00:24	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/24/15 00:24	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/24/15 00:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/24/15 00:24	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/24/15 00:24	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/24/15 00:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/24/15 00:24	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/24/15 00:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/24/15 00:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/24/15 00:24	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/24/15 00:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/24/15 00:24	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 00:24	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 00:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/24/15 00:24	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/24/15 00:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/24/15 00:24	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/24/15 00:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 00:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 00:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 00:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/24/15 00:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/24/15 00:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/24/15 00:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/24/15 00:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 00:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 00:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 00:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/24/15 00:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 00:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/24/15 00:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 00:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 00:24	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/24/15 00:24	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/24/15 00:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/24/15 00:24	87-68-3	L3
2-Hexanone	ND	ug/L	5.0	1		07/24/15 00:24	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/24/15 00:24	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/24/15 00:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/24/15 00:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/24/15 00:24	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/24/15 00:24	91-20-3	
Styrene	ND	ug/L	1.0	1		07/24/15 00:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 00:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 00:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/24/15 00:24	127-18-4	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-04 **Lab ID: 92259360010** Collected: 07/15/15 15:35 Received: 07/17/15 16:00 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		07/24/15 00:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 00:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 00:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/24/15 00:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/24/15 00:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/24/15 00:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/24/15 00:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/24/15 00:24	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/24/15 00:24	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/24/15 00:24	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/24/15 00:24	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/24/15 00:24	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/24/15 00:24	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		07/24/15 00:24	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		07/24/15 00:24	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		07/24/15 00:24	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-05 **Lab ID: 92259360011** Collected: 07/16/15 11:40 Received: 07/17/15 16:00 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		07/24/15 00:40	67-64-1	
Benzene	ND	ug/L	1.0	1		07/24/15 00:40	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/24/15 00:40	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/24/15 00:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/24/15 00:40	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/24/15 00:40	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/24/15 00:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/24/15 00:40	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/24/15 00:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/24/15 00:40	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/24/15 00:40	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/24/15 00:40	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/24/15 00:40	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 00:40	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 00:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/24/15 00:40	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/24/15 00:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/24/15 00:40	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/24/15 00:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 00:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 00:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 00:40	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/24/15 00:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/24/15 00:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/24/15 00:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/24/15 00:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 00:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 00:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 00:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/24/15 00:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 00:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/24/15 00:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 00:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 00:40	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/24/15 00:40	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/24/15 00:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/24/15 00:40	87-68-3	L3
2-Hexanone	ND	ug/L	5.0	1		07/24/15 00:40	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/24/15 00:40	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/24/15 00:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/24/15 00:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/24/15 00:40	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/24/15 00:40	91-20-3	
Styrene	ND	ug/L	1.0	1		07/24/15 00:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 00:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 00:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/24/15 00:40	127-18-4	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-05 **Lab ID: 92259360011** Collected: 07/16/15 11:40 Received: 07/17/15 16:00 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		07/24/15 00:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 00:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 00:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/24/15 00:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/24/15 00:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/24/15 00:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/24/15 00:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/24/15 00:40	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/24/15 00:40	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/24/15 00:40	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/24/15 00:40	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/24/15 00:40	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/24/15 00:40	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		07/24/15 00:40	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		07/24/15 00:40	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		07/24/15 00:40	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-06 **Lab ID: 92259360012** Collected: 07/16/15 10:05 Received: 07/17/15 16:00 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		07/24/15 00:57	67-64-1	
Benzene	ND	ug/L	1.0	1		07/24/15 00:57	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/24/15 00:57	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/24/15 00:57	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/24/15 00:57	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/24/15 00:57	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/24/15 00:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/24/15 00:57	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/24/15 00:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/24/15 00:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/24/15 00:57	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/24/15 00:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/24/15 00:57	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 00:57	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 00:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/24/15 00:57	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/24/15 00:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/24/15 00:57	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/24/15 00:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 00:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 00:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 00:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/24/15 00:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/24/15 00:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/24/15 00:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/24/15 00:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 00:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 00:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 00:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/24/15 00:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 00:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/24/15 00:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 00:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 00:57	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/24/15 00:57	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/24/15 00:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/24/15 00:57	87-68-3	L3
2-Hexanone	ND	ug/L	5.0	1		07/24/15 00:57	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/24/15 00:57	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/24/15 00:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/24/15 00:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/24/15 00:57	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/24/15 00:57	91-20-3	
Styrene	ND	ug/L	1.0	1		07/24/15 00:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 00:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 00:57	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/24/15 00:57	127-18-4	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-06 **Lab ID: 92259360012** Collected: 07/16/15 10:05 Received: 07/17/15 16:00 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		07/24/15 00:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 00:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 00:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/24/15 00:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/24/15 00:57	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/24/15 00:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/24/15 00:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/24/15 00:57	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/24/15 00:57	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/24/15 00:57	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/24/15 00:57	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/24/15 00:57	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/24/15 00:57	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	1		07/24/15 00:57	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		07/24/15 00:57	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		07/24/15 00:57	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-07 **Lab ID: 92259360013** Collected: 07/16/15 11:15 Received: 07/17/15 16:00 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		07/24/15 01:14	67-64-1	
Benzene	ND	ug/L	1.0	1		07/24/15 01:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/24/15 01:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/24/15 01:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/24/15 01:14	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/24/15 01:14	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/24/15 01:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/24/15 01:14	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/24/15 01:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/24/15 01:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/24/15 01:14	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/24/15 01:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/24/15 01:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 01:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 01:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/24/15 01:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/24/15 01:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/24/15 01:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/24/15 01:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 01:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 01:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 01:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/24/15 01:14	75-71-8	
1,1-Dichloroethane	**1.2**	ug/L	1.0	1		07/24/15 01:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/24/15 01:14	107-06-2	
1,1-Dichloroethene	**25.6**	ug/L	1.0	1		07/24/15 01:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 01:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 01:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 01:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/24/15 01:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 01:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/24/15 01:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 01:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 01:14	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/24/15 01:14	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/24/15 01:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/24/15 01:14	87-68-3	L3,M0
2-Hexanone	ND	ug/L	5.0	1		07/24/15 01:14	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/24/15 01:14	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/24/15 01:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/24/15 01:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/24/15 01:14	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/24/15 01:14	91-20-3	
Styrene	ND	ug/L	1.0	1		07/24/15 01:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 01:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 01:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/24/15 01:14	127-18-4	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-07 **Lab ID: 92259360013** Collected: 07/16/15 11:15 Received: 07/17/15 16:00 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		07/24/15 01:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 01:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 01:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/24/15 01:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/24/15 01:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/24/15 01:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/24/15 01:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/24/15 01:14	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/24/15 01:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/24/15 01:14	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/24/15 01:14	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/24/15 01:14	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/24/15 01:14	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		07/24/15 01:14	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		07/24/15 01:14	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		07/24/15 01:14	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-08 **Lab ID: 92259360014** Collected: 07/15/15 17:05 Received: 07/17/15 16:00 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		07/24/15 01:31	67-64-1	
Benzene	ND	ug/L	1.0	1		07/24/15 01:31	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/24/15 01:31	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/24/15 01:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/24/15 01:31	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/24/15 01:31	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/24/15 01:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/24/15 01:31	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/24/15 01:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/24/15 01:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/24/15 01:31	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/24/15 01:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/24/15 01:31	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 01:31	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 01:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/24/15 01:31	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/24/15 01:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/24/15 01:31	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/24/15 01:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 01:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 01:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 01:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/24/15 01:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/24/15 01:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/24/15 01:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/24/15 01:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 01:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 01:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 01:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/24/15 01:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 01:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/24/15 01:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 01:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 01:31	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/24/15 01:31	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/24/15 01:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/24/15 01:31	87-68-3	L3
2-Hexanone	ND	ug/L	5.0	1		07/24/15 01:31	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/24/15 01:31	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/24/15 01:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/24/15 01:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/24/15 01:31	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/24/15 01:31	91-20-3	
Styrene	ND	ug/L	1.0	1		07/24/15 01:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 01:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 01:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/24/15 01:31	127-18-4	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-08 **Lab ID: 92259360014** Collected: 07/15/15 17:05 Received: 07/17/15 16:00 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		07/24/15 01:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 01:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 01:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/24/15 01:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/24/15 01:31	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/24/15 01:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/24/15 01:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/24/15 01:31	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/24/15 01:31	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/24/15 01:31	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/24/15 01:31	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/24/15 01:31	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/24/15 01:31	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		07/24/15 01:31	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		07/24/15 01:31	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		07/24/15 01:31	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-09 **Lab ID: 92259360015** Collected: 07/15/15 17:50 Received: 07/17/15 16:00 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		07/24/15 02:05	67-64-1	
Benzene	ND	ug/L	1.0	1		07/24/15 02:05	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/24/15 02:05	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/24/15 02:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/24/15 02:05	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/24/15 02:05	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/24/15 02:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/24/15 02:05	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/24/15 02:05	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/24/15 02:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/24/15 02:05	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/24/15 02:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/24/15 02:05	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 02:05	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 02:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/24/15 02:05	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/24/15 02:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/24/15 02:05	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/24/15 02:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 02:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 02:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 02:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/24/15 02:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/24/15 02:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/24/15 02:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/24/15 02:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 02:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 02:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 02:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/24/15 02:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 02:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/24/15 02:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 02:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 02:05	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/24/15 02:05	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/24/15 02:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/24/15 02:05	87-68-3	L3
2-Hexanone	ND	ug/L	5.0	1		07/24/15 02:05	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/24/15 02:05	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/24/15 02:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/24/15 02:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/24/15 02:05	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/24/15 02:05	91-20-3	
Styrene	ND	ug/L	1.0	1		07/24/15 02:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 02:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 02:05	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/24/15 02:05	127-18-4	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-09 **Lab ID: 92259360015** Collected: 07/15/15 17:50 Received: 07/17/15 16:00 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		07/24/15 02:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 02:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 02:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/24/15 02:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/24/15 02:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/24/15 02:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/24/15 02:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/24/15 02:05	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/24/15 02:05	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/24/15 02:05	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/24/15 02:05	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/24/15 02:05	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/24/15 02:05	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		07/24/15 02:05	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		07/24/15 02:05	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		07/24/15 02:05	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-10 **Lab ID: 92259360016** Collected: 07/16/15 14:10 Received: 07/17/15 16:00 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		07/24/15 02:22	67-64-1	
Benzene	ND	ug/L	1.0	1		07/24/15 02:22	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/24/15 02:22	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/24/15 02:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/24/15 02:22	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/24/15 02:22	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/24/15 02:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/24/15 02:22	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/24/15 02:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/24/15 02:22	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/24/15 02:22	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/24/15 02:22	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/24/15 02:22	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 02:22	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 02:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/24/15 02:22	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/24/15 02:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/24/15 02:22	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/24/15 02:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 02:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 02:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 02:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/24/15 02:22	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/24/15 02:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/24/15 02:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/24/15 02:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 02:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 02:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 02:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/24/15 02:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 02:22	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/24/15 02:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 02:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 02:22	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/24/15 02:22	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/24/15 02:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/24/15 02:22	87-68-3	L3
2-Hexanone	ND	ug/L	5.0	1		07/24/15 02:22	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/24/15 02:22	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/24/15 02:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/24/15 02:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/24/15 02:22	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/24/15 02:22	91-20-3	
Styrene	ND	ug/L	1.0	1		07/24/15 02:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 02:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 02:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/24/15 02:22	127-18-4	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-10 **Lab ID: 92259360016** Collected: 07/16/15 14:10 Received: 07/17/15 16:00 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		07/24/15 02:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 02:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 02:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/24/15 02:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/24/15 02:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/24/15 02:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/24/15 02:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/24/15 02:22	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/24/15 02:22	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/24/15 02:22	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/24/15 02:22	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/24/15 02:22	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/24/15 02:22	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		07/24/15 02:22	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		07/24/15 02:22	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		07/24/15 02:22	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-11 **Lab ID: 92259360017** Collected: 07/15/15 11:15 Received: 07/17/15 16:00 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		07/24/15 02:39	67-64-1	
Chloroethane	ND	ug/L	1.0	1		07/24/15 02:39	75-00-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/24/15 02:39	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/24/15 02:39	75-35-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/24/15 02:39	71-55-6	
Vinyl chloride	ND	ug/L	1.0	1		07/24/15 02:39	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		07/24/15 02:39	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		07/24/15 02:39	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		07/24/15 02:39	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-12 **Lab ID: 92259360018** Collected: 07/15/15 12:40 Received: 07/17/15 16:00 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		07/24/15 02:56	67-64-1	
Chloroethane	ND	ug/L	1.0	1		07/24/15 02:56	75-00-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/24/15 02:56	75-34-3	
1,1-Dichloroethene	**2.9**	ug/L	1.0	1		07/24/15 02:56	75-35-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/24/15 02:56	71-55-6	
Vinyl chloride	**6.1**	ug/L	1.0	1		07/24/15 02:56	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		07/24/15 02:56	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		07/24/15 02:56	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		07/24/15 02:56	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-13 **Lab ID: 92259360019** Collected: 07/16/15 11:55 Received: 07/17/15 16:00 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		07/24/15 03:13	67-64-1	
Benzene	ND	ug/L	1.0	1		07/24/15 03:13	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/24/15 03:13	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/24/15 03:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/24/15 03:13	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/24/15 03:13	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/24/15 03:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/24/15 03:13	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/24/15 03:13	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/24/15 03:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/24/15 03:13	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/24/15 03:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/24/15 03:13	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 03:13	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 03:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/24/15 03:13	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/24/15 03:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/24/15 03:13	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/24/15 03:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 03:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 03:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 03:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/24/15 03:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/24/15 03:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/24/15 03:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/24/15 03:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 03:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 03:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 03:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/24/15 03:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 03:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/24/15 03:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 03:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 03:13	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/24/15 03:13	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/24/15 03:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/24/15 03:13	87-68-3	L3
2-Hexanone	ND	ug/L	5.0	1		07/24/15 03:13	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/24/15 03:13	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/24/15 03:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/24/15 03:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/24/15 03:13	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/24/15 03:13	91-20-3	
Styrene	ND	ug/L	1.0	1		07/24/15 03:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 03:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 03:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/24/15 03:13	127-18-4	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-13 **Lab ID: 92259360019** Collected: 07/16/15 11:55 Received: 07/17/15 16:00 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		07/24/15 03:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 03:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 03:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/24/15 03:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/24/15 03:13	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/24/15 03:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/24/15 03:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/24/15 03:13	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/24/15 03:13	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/24/15 03:13	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/24/15 03:13	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/24/15 03:13	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/24/15 03:13	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		07/24/15 03:13	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		07/24/15 03:13	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		07/24/15 03:13	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-14 **Lab ID: 92259360020** Collected: 07/15/15 16:45 Received: 07/17/15 16:00 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		07/24/15 03:30	67-64-1	
Chloroethane	ND	ug/L	1.0	1		07/24/15 03:30	75-00-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/24/15 03:30	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/24/15 03:30	75-35-4	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/24/15 03:30	71-55-6	
Vinyl chloride	ND	ug/L	1.0	1		07/24/15 03:30	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		07/24/15 03:30	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		07/24/15 03:30	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		07/24/15 03:30	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-15 **Lab ID: 92259360021** Collected: 07/16/15 08:55 Received: 07/17/15 16:00 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		07/24/15 03:47	67-64-1	
Benzene	ND	ug/L	1.0	1		07/24/15 03:47	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/24/15 03:47	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/24/15 03:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/24/15 03:47	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/24/15 03:47	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/24/15 03:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/24/15 03:47	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/24/15 03:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/24/15 03:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/24/15 03:47	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/24/15 03:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/24/15 03:47	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 03:47	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 03:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/24/15 03:47	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/24/15 03:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/24/15 03:47	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/24/15 03:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 03:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 03:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 03:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/24/15 03:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/24/15 03:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/24/15 03:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/24/15 03:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 03:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 03:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 03:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/24/15 03:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 03:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/24/15 03:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 03:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 03:47	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/24/15 03:47	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/24/15 03:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/24/15 03:47	87-68-3	L3
2-Hexanone	ND	ug/L	5.0	1		07/24/15 03:47	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/24/15 03:47	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/24/15 03:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/24/15 03:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/24/15 03:47	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/24/15 03:47	91-20-3	
Styrene	ND	ug/L	1.0	1		07/24/15 03:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 03:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 03:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/24/15 03:47	127-18-4	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: MW-15 **Lab ID: 92259360021** Collected: 07/16/15 08:55 Received: 07/17/15 16:00 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		07/24/15 03:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 03:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 03:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/24/15 03:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/24/15 03:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/24/15 03:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/24/15 03:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/24/15 03:47	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/24/15 03:47	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/24/15 03:47	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/24/15 03:47	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/24/15 03:47	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/24/15 03:47	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		07/24/15 03:47	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		07/24/15 03:47	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		07/24/15 03:47	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: DUP-1 **Lab ID: 92259360022** Collected: 07/15/15 00:00 Received: 07/17/15 16:00 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		07/24/15 04:04	67-64-1	
Benzene	ND	ug/L	1.0	1		07/24/15 04:04	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/24/15 04:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/24/15 04:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/24/15 04:04	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/24/15 04:04	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/24/15 04:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/24/15 04:04	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/24/15 04:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/24/15 04:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/24/15 04:04	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/24/15 04:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/24/15 04:04	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 04:04	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 04:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/24/15 04:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/24/15 04:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/24/15 04:04	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/24/15 04:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 04:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 04:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 04:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/24/15 04:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/24/15 04:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/24/15 04:04	107-06-2	
1,1-Dichloroethene	**5.0**	ug/L	1.0	1		07/24/15 04:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 04:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 04:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 04:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/24/15 04:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 04:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/24/15 04:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 04:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 04:04	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/24/15 04:04	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/24/15 04:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/24/15 04:04	87-68-3	L3
2-Hexanone	ND	ug/L	5.0	1		07/24/15 04:04	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/24/15 04:04	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/24/15 04:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/24/15 04:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/24/15 04:04	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/24/15 04:04	91-20-3	
Styrene	ND	ug/L	1.0	1		07/24/15 04:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 04:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 04:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/24/15 04:04	127-18-4	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: DUP-1 **Lab ID: 92259360022** Collected: 07/15/15 00:00 Received: 07/17/15 16:00 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		07/24/15 04:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 04:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 04:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/24/15 04:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/24/15 04:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/24/15 04:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/24/15 04:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/24/15 04:04	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/24/15 04:04	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/24/15 04:04	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/24/15 04:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/24/15 04:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/24/15 04:04	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		07/24/15 04:04	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		07/24/15 04:04	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		07/24/15 04:04	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: EQUIP BLANK **Lab ID: 92259360023** Collected: 07/15/15 11:20 Received: 07/17/15 16:00 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		07/24/15 04:21	67-64-1	
Benzene	ND	ug/L	1.0	1		07/24/15 04:21	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/24/15 04:21	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/24/15 04:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/24/15 04:21	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/24/15 04:21	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/24/15 04:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/24/15 04:21	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/24/15 04:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/24/15 04:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/24/15 04:21	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/24/15 04:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/24/15 04:21	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 04:21	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 04:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/24/15 04:21	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/24/15 04:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/24/15 04:21	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/24/15 04:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 04:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 04:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 04:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/24/15 04:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/24/15 04:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/24/15 04:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/24/15 04:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 04:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 04:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 04:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/24/15 04:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 04:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/24/15 04:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 04:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 04:21	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/24/15 04:21	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/24/15 04:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/24/15 04:21	87-68-3	L3
2-Hexanone	ND	ug/L	5.0	1		07/24/15 04:21	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/24/15 04:21	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/24/15 04:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/24/15 04:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/24/15 04:21	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/24/15 04:21	91-20-3	
Styrene	ND	ug/L	1.0	1		07/24/15 04:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 04:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 04:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/24/15 04:21	127-18-4	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: EQUIP BLANK **Lab ID: 92259360023** Collected: 07/15/15 11:20 Received: 07/17/15 16:00 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		07/24/15 04:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 04:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 04:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/24/15 04:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/24/15 04:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/24/15 04:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/24/15 04:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/24/15 04:21	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/24/15 04:21	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/24/15 04:21	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/24/15 04:21	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/24/15 04:21	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/24/15 04:21	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		07/24/15 04:21	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		07/24/15 04:21	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		07/24/15 04:21	2037-26-5	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: TRIP BLANK **Lab ID: 92259360024** Collected: 07/15/15 00:00 Received: 07/17/15 16:00 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		07/24/15 04:38	67-64-1	
Benzene	ND	ug/L	1.0	1		07/24/15 04:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		07/24/15 04:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		07/24/15 04:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		07/24/15 04:38	75-27-4	
Bromoform	ND	ug/L	1.0	1		07/24/15 04:38	75-25-2	
Bromomethane	ND	ug/L	2.0	1		07/24/15 04:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		07/24/15 04:38	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		07/24/15 04:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		07/24/15 04:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		07/24/15 04:38	75-00-3	
Chloroform	ND	ug/L	1.0	1		07/24/15 04:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		07/24/15 04:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 04:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		07/24/15 04:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		07/24/15 04:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		07/24/15 04:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		07/24/15 04:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		07/24/15 04:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 04:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 04:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		07/24/15 04:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		07/24/15 04:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		07/24/15 04:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		07/24/15 04:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		07/24/15 04:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 04:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/24/15 04:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 04:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		07/24/15 04:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		07/24/15 04:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		07/24/15 04:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 04:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		07/24/15 04:38	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		07/24/15 04:38	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		07/24/15 04:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		07/24/15 04:38	87-68-3	L3
2-Hexanone	ND	ug/L	5.0	1		07/24/15 04:38	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		07/24/15 04:38	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		07/24/15 04:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		07/24/15 04:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		07/24/15 04:38	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		07/24/15 04:38	91-20-3	
Styrene	ND	ug/L	1.0	1		07/24/15 04:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 04:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		07/24/15 04:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/24/15 04:38	127-18-4	

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ANALYTICAL RESULTS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Sample: TRIP BLANK **Lab ID: 92259360024** Collected: 07/15/15 00:00 Received: 07/17/15 16:00 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		07/24/15 04:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 04:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		07/24/15 04:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		07/24/15 04:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		07/24/15 04:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		07/24/15 04:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		07/24/15 04:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		07/24/15 04:38	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		07/24/15 04:38	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		07/24/15 04:38	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		07/24/15 04:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		07/24/15 04:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/24/15 04:38	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		07/24/15 04:38	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		07/24/15 04:38	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		07/24/15 04:38	2037-26-5	

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QUALITY CONTROL DATA

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

QC Batch: MSV/32672 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92259360001, 92259360002, 92259360003, 92259360004, 92259360005, 92259360006, 92259360007, 92259360008, 92259360009, 92259360010, 92259360011, 92259360012

METHOD BLANK: 1516754 Matrix: Water
Associated Lab Samples: 92259360001, 92259360002, 92259360003, 92259360004, 92259360005, 92259360006, 92259360007, 92259360008, 92259360009, 92259360010, 92259360011, 92259360012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	07/23/15 18:45	
1,1,1-Trichloroethane	ug/L	ND	1.0	07/23/15 18:45	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/23/15 18:45	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/23/15 18:45	
1,1-Dichloroethane	ug/L	ND	1.0	07/23/15 18:45	
1,1-Dichloroethene	ug/L	ND	1.0	07/23/15 18:45	
1,1-Dichloropropene	ug/L	ND	1.0	07/23/15 18:45	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	07/23/15 18:45	
1,2,3-Trichloropropane	ug/L	ND	1.0	07/23/15 18:45	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	07/23/15 18:45	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	07/23/15 18:45	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	07/23/15 18:45	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/23/15 18:45	
1,2-Dichloroethane	ug/L	ND	1.0	07/23/15 18:45	
1,2-Dichloropropane	ug/L	ND	1.0	07/23/15 18:45	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/23/15 18:45	
1,3-Dichloropropane	ug/L	ND	1.0	07/23/15 18:45	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/23/15 18:45	
2,2-Dichloropropane	ug/L	ND	1.0	07/23/15 18:45	
2-Butanone (MEK)	ug/L	ND	5.0	07/23/15 18:45	
2-Chlorotoluene	ug/L	ND	1.0	07/23/15 18:45	
2-Hexanone	ug/L	ND	5.0	07/23/15 18:45	
4-Chlorotoluene	ug/L	ND	1.0	07/23/15 18:45	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	07/23/15 18:45	
Acetone	ug/L	ND	25.0	07/23/15 18:45	
Benzene	ug/L	ND	1.0	07/23/15 18:45	
Bromobenzene	ug/L	ND	1.0	07/23/15 18:45	
Bromochloromethane	ug/L	ND	1.0	07/23/15 18:45	
Bromodichloromethane	ug/L	ND	1.0	07/23/15 18:45	
Bromoform	ug/L	ND	1.0	07/23/15 18:45	
Bromomethane	ug/L	ND	2.0	07/23/15 18:45	
Carbon tetrachloride	ug/L	ND	1.0	07/23/15 18:45	
Chlorobenzene	ug/L	ND	1.0	07/23/15 18:45	
Chloroethane	ug/L	ND	1.0	07/23/15 18:45	
Chloroform	ug/L	ND	1.0	07/23/15 18:45	
Chloromethane	ug/L	ND	1.0	07/23/15 18:45	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/23/15 18:45	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/23/15 18:45	
Dibromochloromethane	ug/L	ND	1.0	07/23/15 18:45	
Dibromomethane	ug/L	ND	1.0	07/23/15 18:45	

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QUALITY CONTROL DATA

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

METHOD BLANK: 1516754 Matrix: Water

Associated Lab Samples: 92259360001, 92259360002, 92259360003, 92259360004, 92259360005, 92259360006, 92259360007, 92259360008, 92259360009, 92259360010, 92259360011, 92259360012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	07/23/15 18:45	
Diisopropyl ether	ug/L	ND	1.0	07/23/15 18:45	
Ethylbenzene	ug/L	ND	1.0	07/23/15 18:45	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	07/23/15 18:45	
m&p-Xylene	ug/L	ND	2.0	07/23/15 18:45	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/23/15 18:45	
Methylene Chloride	ug/L	ND	2.0	07/23/15 18:45	
Naphthalene	ug/L	ND	1.0	07/23/15 18:45	
o-Xylene	ug/L	ND	1.0	07/23/15 18:45	
p-Isopropyltoluene	ug/L	ND	1.0	07/23/15 18:45	
Styrene	ug/L	ND	1.0	07/23/15 18:45	
Tetrachloroethene	ug/L	ND	1.0	07/23/15 18:45	
Toluene	ug/L	ND	1.0	07/23/15 18:45	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/23/15 18:45	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/23/15 18:45	
Trichloroethene	ug/L	ND	1.0	07/23/15 18:45	
Trichlorofluoromethane	ug/L	ND	1.0	07/23/15 18:45	
Vinyl acetate	ug/L	ND	2.0	07/23/15 18:45	
Vinyl chloride	ug/L	ND	1.0	07/23/15 18:45	
Xylene (Total)	ug/L	ND	2.0	07/23/15 18:45	
1,2-Dichloroethane-d4 (S)	%	99	70-130	07/23/15 18:45	
4-Bromofluorobenzene (S)	%	101	70-130	07/23/15 18:45	
Toluene-d8 (S)	%	100	70-130	07/23/15 18:45	

LABORATORY CONTROL SAMPLE: 1516755

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.1	94	70-130	
1,1,1-Trichloroethane	ug/L	50	49.1	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.3	95	70-130	
1,1,2-Trichloroethane	ug/L	50	44.9	90	70-130	
1,1-Dichloroethane	ug/L	50	48.2	96	70-130	
1,1-Dichloroethene	ug/L	50	50.1	100	70-132	
1,1-Dichloropropene	ug/L	50	49.7	99	70-130	
1,2,3-Trichlorobenzene	ug/L	50	51.9	104	70-135	
1,2,3-Trichloropropane	ug/L	50	47.9	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.7	101	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	47.0	94	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.4	97	70-130	
1,2-Dichlorobenzene	ug/L	50	50.2	100	70-130	
1,2-Dichloroethane	ug/L	50	44.3	89	70-130	
1,2-Dichloropropane	ug/L	50	45.7	91	70-130	
1,3-Dichlorobenzene	ug/L	50	50.6	101	70-130	

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QUALITY CONTROL DATA

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

LABORATORY CONTROL SAMPLE: 1516755

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	47.0	94	70-130	
1,4-Dichlorobenzene	ug/L	50	49.7	99	70-130	
2,2-Dichloropropane	ug/L	50	51.2	102	58-145	
2-Butanone (MEK)	ug/L	100	96.4	96	70-145	
2-Chlorotoluene	ug/L	50	50.5	101	70-130	
2-Hexanone	ug/L	100	95.8	96	70-144	
4-Chlorotoluene	ug/L	50	49.8	100	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.5	95	70-140	
Acetone	ug/L	100	89.3	89	50-175	
Benzene	ug/L	50	48.7	97	70-130	
Bromobenzene	ug/L	50	46.8	94	70-130	
Bromochloromethane	ug/L	50	49.8	100	70-130	
Bromodichloromethane	ug/L	50	48.6	97	70-130	
Bromoform	ug/L	50	43.8	88	70-130	
Bromomethane	ug/L	50	48.2	96	54-130	
Carbon tetrachloride	ug/L	50	51.5	103	70-132	
Chlorobenzene	ug/L	50	48.8	98	70-130	
Chloroethane	ug/L	50	42.5	85	64-134	
Chloroform	ug/L	50	47.8	96	70-130	
Chloromethane	ug/L	50	48.6	97	64-130	
cis-1,2-Dichloroethene	ug/L	50	47.4	95	70-131	
cis-1,3-Dichloropropene	ug/L	50	47.2	94	70-130	
Dibromochloromethane	ug/L	50	47.1	94	70-130	
Dibromomethane	ug/L	50	49.3	99	70-131	
Dichlorodifluoromethane	ug/L	50	45.3	91	56-130	
Diisopropyl ether	ug/L	50	48.3	97	70-130	
Ethylbenzene	ug/L	50	49.1	98	70-130	
Hexachloro-1,3-butadiene	ug/L	50	67.0	134	70-130	L0
m&p-Xylene	ug/L	100	98.2	98	70-130	
Methyl-tert-butyl ether	ug/L	50	48.0	96	70-130	
Methylene Chloride	ug/L	50	48.8	98	63-130	
Naphthalene	ug/L	50	49.3	99	70-138	
o-Xylene	ug/L	50	49.0	98	70-130	
p-Isopropyltoluene	ug/L	50	52.3	105	70-130	
Styrene	ug/L	50	48.1	96	70-130	
Tetrachloroethene	ug/L	50	49.9	100	70-130	
Toluene	ug/L	50	49.1	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.9	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.6	95	70-132	
Trichloroethene	ug/L	50	47.2	94	70-130	
Trichlorofluoromethane	ug/L	50	48.9	98	62-133	
Vinyl acetate	ug/L	100	100	100	66-157	
Vinyl chloride	ug/L	50	48.8	98	50-150	
Xylene (Total)	ug/L	150	147	98	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

MATRIX SPIKE SAMPLE: 1516756

Parameter	Units	92259360001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.6	103	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	22.9	114	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.4	102	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	19.8	99	70-130	
1,1-Dichloroethane	ug/L	ND	20	22.4	109	70-130	
1,1-Dichloroethene	ug/L	ND	20	25.2	122	70-166	
1,1-Dichloropropene	ug/L	ND	20	24.2	121	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	23.4	117	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	21.1	106	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	21.9	110	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20.7	103	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	21.0	105	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	21.8	109	70-130	
1,2-Dichloroethane	ug/L	ND	20	19.1	95	70-130	
1,2-Dichloropropane	ug/L	ND	20	20.8	104	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	22.6	113	70-130	
1,3-Dichloropropane	ug/L	ND	20	20.0	100	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	22.0	110	70-130	
2,2-Dichloropropane	ug/L	ND	20	23.2	116	70-130	
2-Butanone (MEK)	ug/L	ND	40	44.0	110	70-130	
2-Chlorotoluene	ug/L	ND	20	22.5	112	70-130	
2-Hexanone	ug/L	ND	40	43.8	109	70-130	
4-Chlorotoluene	ug/L	ND	20	22.0	110	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	42.7	107	70-130	
Acetone	ug/L	ND	40	40.7	96	70-130	
Benzene	ug/L	ND	20	22.6	113	70-148	
Bromobenzene	ug/L	ND	20	20.5	103	70-130	
Bromochloromethane	ug/L	ND	20	21.4	107	70-130	
Bromodichloromethane	ug/L	ND	20	21.0	105	70-130	
Bromoform	ug/L	ND	20	18.3	91	70-130	
Bromomethane	ug/L	ND	20	25.7	128	70-130	
Carbon tetrachloride	ug/L	ND	20	24.8	124	70-130	
Chlorobenzene	ug/L	ND	20	22.1	110	70-146	
Chloroethane	ug/L	ND	20	22.2	111	70-130	
Chloroform	ug/L	ND	20	21.6	108	70-130	
Chloromethane	ug/L	ND	20	24.3	122	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	21.3	106	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	21.1	106	70-130	
Dibromochloromethane	ug/L	ND	20	19.7	99	70-130	
Dibromomethane	ug/L	ND	20	21.2	106	70-130	
Dichlorodifluoromethane	ug/L	ND	20	23.7	119	70-130	
Diisopropyl ether	ug/L	ND	20	20.5	102	70-130	
Ethylbenzene	ug/L	ND	20	22.4	112	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	32.4	162	70-130	M0
m&p-Xylene	ug/L	ND	40	44.6	111	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	18.9	94	70-130	
Methylene Chloride	ug/L	ND	20	20.3	102	70-130	

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QUALITY CONTROL DATA

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

MATRIX SPIKE SAMPLE: 1516756

Parameter	Units	92259360001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	22.1	110	70-130	
o-Xylene	ug/L	ND	20	21.8	109	70-130	
p-Isopropyltoluene	ug/L	ND	20	25.0	125	70-130	
Styrene	ug/L	ND	20	21.5	108	70-130	
Tetrachloroethene	ug/L	ND	20	23.5	117	70-130	
Toluene	ug/L	ND	20	23.1	115	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	20.8	104	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	20.6	103	70-130	
Trichloroethene	ug/L	ND	20	22.5	112	69-151	
Trichlorofluoromethane	ug/L	ND	20	25.3	127	70-130	
Vinyl acetate	ug/L	ND	40	43.1	108	70-130	
Vinyl chloride	ug/L	ND	20	23.9	119	70-130	
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				103	70-130	
Toluene-d8 (S)	%				102	70-130	

SAMPLE DUPLICATE: 1516757

Parameter	Units	92259360002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	.4J		30	
1,1-Dichloroethene	ug/L	11.3	11.0	3	30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

SAMPLE DUPLICATE: 1516757

Parameter	Units	92259360002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	102	99	3		
4-Bromofluorobenzene (S)	%	102	100	1		
Toluene-d8 (S)	%	98	98	1		

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QUALITY CONTROL DATA

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

QC Batch: MSV/32676 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92259360013, 92259360014, 92259360015, 92259360016, 92259360017, 92259360018, 92259360019, 92259360020, 92259360021, 92259360022, 92259360023, 92259360024

METHOD BLANK: 1517190 | Matrix: Water
Associated Lab Samples: 92259360013, 92259360014, 92259360015, 92259360016, 92259360017, 92259360018, 92259360019, 92259360020, 92259360021, 92259360022, 92259360023, 92259360024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	07/23/15 19:02	
1,1,1-Trichloroethane	ug/L	ND	1.0	07/23/15 19:02	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/23/15 19:02	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/23/15 19:02	
1,1-Dichloroethane	ug/L	ND	1.0	07/23/15 19:02	
1,1-Dichloroethene	ug/L	ND	1.0	07/23/15 19:02	
1,1-Dichloropropene	ug/L	ND	1.0	07/23/15 19:02	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	07/23/15 19:02	
1,2,3-Trichloropropane	ug/L	ND	1.0	07/23/15 19:02	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	07/23/15 19:02	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	07/23/15 19:02	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	07/23/15 19:02	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/23/15 19:02	
1,2-Dichloroethane	ug/L	ND	1.0	07/23/15 19:02	
1,2-Dichloropropane	ug/L	ND	1.0	07/23/15 19:02	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/23/15 19:02	
1,3-Dichloropropane	ug/L	ND	1.0	07/23/15 19:02	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/23/15 19:02	
2,2-Dichloropropane	ug/L	ND	1.0	07/23/15 19:02	
2-Butanone (MEK)	ug/L	ND	5.0	07/23/15 19:02	
2-Chlorotoluene	ug/L	ND	1.0	07/23/15 19:02	
2-Hexanone	ug/L	ND	5.0	07/23/15 19:02	
4-Chlorotoluene	ug/L	ND	1.0	07/23/15 19:02	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	07/23/15 19:02	
Acetone	ug/L	ND	25.0	07/23/15 19:02	
Benzene	ug/L	ND	1.0	07/23/15 19:02	
Bromobenzene	ug/L	ND	1.0	07/23/15 19:02	
Bromochloromethane	ug/L	ND	1.0	07/23/15 19:02	
Bromodichloromethane	ug/L	ND	1.0	07/23/15 19:02	
Bromoform	ug/L	ND	1.0	07/23/15 19:02	
Bromomethane	ug/L	ND	2.0	07/23/15 19:02	
Carbon tetrachloride	ug/L	ND	1.0	07/23/15 19:02	
Chlorobenzene	ug/L	ND	1.0	07/23/15 19:02	
Chloroethane	ug/L	ND	1.0	07/23/15 19:02	
Chloroform	ug/L	ND	1.0	07/23/15 19:02	
Chloromethane	ug/L	ND	1.0	07/23/15 19:02	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/23/15 19:02	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/23/15 19:02	
Dibromochloromethane	ug/L	ND	1.0	07/23/15 19:02	
Dibromomethane	ug/L	ND	1.0	07/23/15 19:02	

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QUALITY CONTROL DATA

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

METHOD BLANK: 1517190 Matrix: Water

Associated Lab Samples: 92259360013, 92259360014, 92259360015, 92259360016, 92259360017, 92259360018, 92259360019, 92259360020, 92259360021, 92259360022, 92259360023, 92259360024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	07/23/15 19:02	
Diisopropyl ether	ug/L	ND	1.0	07/23/15 19:02	
Ethylbenzene	ug/L	ND	1.0	07/23/15 19:02	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	07/23/15 19:02	
m&p-Xylene	ug/L	ND	2.0	07/23/15 19:02	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/23/15 19:02	
Methylene Chloride	ug/L	ND	2.0	07/23/15 19:02	
Naphthalene	ug/L	ND	1.0	07/23/15 19:02	
o-Xylene	ug/L	ND	1.0	07/23/15 19:02	
p-Isopropyltoluene	ug/L	ND	1.0	07/23/15 19:02	
Styrene	ug/L	ND	1.0	07/23/15 19:02	
Tetrachloroethene	ug/L	ND	1.0	07/23/15 19:02	
Toluene	ug/L	ND	1.0	07/23/15 19:02	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/23/15 19:02	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/23/15 19:02	
Trichloroethene	ug/L	ND	1.0	07/23/15 19:02	
Trichlorofluoromethane	ug/L	ND	1.0	07/23/15 19:02	
Vinyl acetate	ug/L	ND	2.0	07/23/15 19:02	
Vinyl chloride	ug/L	ND	1.0	07/23/15 19:02	
Xylene (Total)	ug/L	ND	2.0	07/23/15 19:02	
1,2-Dichloroethane-d4 (S)	%	97	70-130	07/23/15 19:02	
4-Bromofluorobenzene (S)	%	100	70-130	07/23/15 19:02	
Toluene-d8 (S)	%	99	70-130	07/23/15 19:02	

LABORATORY CONTROL SAMPLE: 1517191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.6	97	70-130	
1,1,1-Trichloroethane	ug/L	50	52.4	105	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.1	96	70-130	
1,1,2-Trichloroethane	ug/L	50	45.0	90	70-130	
1,1-Dichloroethane	ug/L	50	50.9	102	70-130	
1,1-Dichloroethene	ug/L	50	53.8	108	70-132	
1,1-Dichloropropene	ug/L	50	53.8	108	70-130	
1,2,3-Trichlorobenzene	ug/L	50	52.8	106	70-135	
1,2,3-Trichloropropane	ug/L	50	48.9	98	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.6	103	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	48.7	97	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.1	100	70-130	
1,2-Dichlorobenzene	ug/L	50	51.6	103	70-130	
1,2-Dichloroethane	ug/L	50	46.1	92	70-130	
1,2-Dichloropropane	ug/L	50	47.2	94	70-130	
1,3-Dichlorobenzene	ug/L	50	52.6	105	70-130	

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QUALITY CONTROL DATA

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

LABORATORY CONTROL SAMPLE: 1517191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	47.8	96	70-130	
1,4-Dichlorobenzene	ug/L	50	51.2	102	70-130	
2,2-Dichloropropane	ug/L	50	54.4	109	58-145	
2-Butanone (MEK)	ug/L	100	103	103	70-145	
2-Chlorotoluene	ug/L	50	52.5	105	70-130	
2-Hexanone	ug/L	100	101	101	70-144	
4-Chlorotoluene	ug/L	50	52.0	104	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.9	99	70-140	
Acetone	ug/L	100	95.2	95	50-175	
Benzene	ug/L	50	50.7	101	70-130	
Bromobenzene	ug/L	50	48.4	97	70-130	
Bromochloromethane	ug/L	50	51.6	103	70-130	
Bromodichloromethane	ug/L	50	48.6	97	70-130	
Bromoform	ug/L	50	44.8	90	70-130	
Bromomethane	ug/L	50	54.4	109	54-130	
Carbon tetrachloride	ug/L	50	54.1	108	70-132	
Chlorobenzene	ug/L	50	51.0	102	70-130	
Chloroethane	ug/L	50	47.1	94	64-134	
Chloroform	ug/L	50	52.6	105	70-130	
Chloromethane	ug/L	50	49.7	99	64-130	
cis-1,2-Dichloroethene	ug/L	50	49.8	100	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.4	97	70-130	
Dibromochloromethane	ug/L	50	47.5	95	70-130	
Dibromomethane	ug/L	50	50.2	100	70-131	
Dichlorodifluoromethane	ug/L	50	48.5	97	56-130	
Diisopropyl ether	ug/L	50	50.0	100	70-130	
Ethylbenzene	ug/L	50	51.1	102	70-130	
Hexachloro-1,3-butadiene	ug/L	50	70.8	142	70-130	L0
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	49.3	99	70-130	
Methylene Chloride	ug/L	50	50.0	100	63-130	
Naphthalene	ug/L	50	51.8	104	70-138	
o-Xylene	ug/L	50	50.7	101	70-130	
p-Isopropyltoluene	ug/L	50	54.7	109	70-130	
Styrene	ug/L	50	49.5	99	70-130	
Tetrachloroethene	ug/L	50	51.9	104	70-130	
Toluene	ug/L	50	50.9	102	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.5	99	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.1	96	70-132	
Trichloroethene	ug/L	50	49.3	99	70-130	
Trichlorofluoromethane	ug/L	50	53.8	108	62-133	
Vinyl acetate	ug/L	100	103	103	66-157	
Vinyl chloride	ug/L	50	52.6	105	50-150	
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

MATRIX SPIKE SAMPLE: 1517192

Parameter	Units	92259360013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.8	104	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	23.4	117	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	19.9	99	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	20.0	100	70-130	
1,1-Dichloroethane	ug/L	1.2	20	23.6	112	70-130	
1,1-Dichloroethene	ug/L	25.6	20	52.9	137	70-166	
1,1-Dichloropropene	ug/L	ND	20	24.5	122	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	22.1	110	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	20.6	103	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	21.8	109	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	19.6	98	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	21.1	106	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	21.8	109	70-130	
1,2-Dichloroethane	ug/L	ND	20	19.1	95	70-130	
1,2-Dichloropropane	ug/L	ND	20	21.0	105	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	22.6	113	70-130	
1,3-Dichloropropane	ug/L	ND	20	20.0	100	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	22.0	110	70-130	
2,2-Dichloropropane	ug/L	ND	20	23.3	116	70-130	
2-Butanone (MEK)	ug/L	ND	40	42.3	106	70-130	
2-Chlorotoluene	ug/L	ND	20	22.8	114	70-130	
2-Hexanone	ug/L	ND	40	41.6	104	70-130	
4-Chlorotoluene	ug/L	ND	20	22.2	111	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	42.2	106	70-130	
Acetone	ug/L	ND	40	38.9	93	70-130	
Benzene	ug/L	ND	20	23.1	116	70-148	
Bromobenzene	ug/L	ND	20	21.0	105	70-130	
Bromochloromethane	ug/L	ND	20	22.4	112	70-130	
Bromodichloromethane	ug/L	ND	20	21.5	107	70-130	
Bromoform	ug/L	ND	20	18.0	90	70-130	
Bromomethane	ug/L	ND	20	23.6	118	70-130	
Carbon tetrachloride	ug/L	ND	20	24.7	123	70-130	
Chlorobenzene	ug/L	ND	20	21.7	109	70-146	
Chloroethane	ug/L	ND	20	22.6	113	70-130	
Chloroform	ug/L	ND	20	21.7	108	70-130	
Chloromethane	ug/L	ND	20	22.6	113	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	22.0	110	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	21.1	106	70-130	
Dibromochloromethane	ug/L	ND	20	19.8	99	70-130	
Dibromomethane	ug/L	ND	20	20.7	103	70-130	
Dichlorodifluoromethane	ug/L	ND	20	23.7	119	70-130	
Diisopropyl ether	ug/L	ND	20	21.4	107	70-130	
Ethylbenzene	ug/L	ND	20	22.3	111	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	30.5	153	70-130	M0
m&p-Xylene	ug/L	ND	40	44.5	111	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.3	102	70-130	
Methylene Chloride	ug/L	ND	20	20.5	102	70-130	

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QUALITY CONTROL DATA

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

MATRIX SPIKE SAMPLE: 1517192

Parameter	Units	92259360013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	21.1	106	70-130	
o-Xylene	ug/L	ND	20	21.8	109	70-130	
p-Isopropyltoluene	ug/L	ND	20	24.3	121	70-130	
Styrene	ug/L	ND	20	21.5	107	70-130	
Tetrachloroethene	ug/L	ND	20	23.2	116	70-130	
Toluene	ug/L	ND	20	22.4	112	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	24.1	121	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	20.7	104	70-130	
Trichloroethene	ug/L	ND	20	22.5	113	69-151	
Trichlorofluoromethane	ug/L	ND	20	25.5	128	70-130	
Vinyl acetate	ug/L	ND	40	43.6	109	70-130	
Vinyl chloride	ug/L	ND	20	24.2	120	70-130	
1,2-Dichloroethane-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				103	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1517193

Parameter	Units	92259360014 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

SAMPLE DUPLICATE: 1517193

Parameter	Units	92259360014 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	.31J		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	102	100	2		
4-Bromofluorobenzene (S)	%	101	101	0		
Toluene-d8 (S)	%	99	99	0		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

QUALIFIERS

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: INTERNATIONAL PAPER 5E0809329P
Pace Project No.: 92259360

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92259360001	**DW-01**	EPA 8260	MSV/32672		
92259360002	**DW-02**	EPA 8260	MSV/32672		
92259360003	**DW-03**	EPA 8260	MSV/32672		
92259360004	**DW-04**	EPA 8260	MSV/32672		
92259360005	**DW-05**	EPA 8260	MSV/32672		
92259360006	**MW-01**	EPA 8260	MSV/32672		
92259360007	**MW-02**	EPA 8260	MSV/32672		
92259360008	**MW-02BR**	EPA 8260	MSV/32672		
92259360009	**MW-03**	EPA 8260	MSV/32672		
92259360010	**MW-04**	EPA 8260	MSV/32672		
92259360011	**MW-05**	EPA 8260	MSV/32672		
92259360012	**MW-06**	EPA 8260	MSV/32672		
92259360013	**MW-07**	EPA 8260	MSV/32676		
92259360014	**MW-08**	EPA 8260	MSV/32676		
92259360015	**MW-09**	EPA 8260	MSV/32676		
92259360016	**MW-10**	EPA 8260	MSV/32676		
92259360017	**MW-11**	EPA 8260	MSV/32676		
92259360018	**MW-12**	EPA 8260	MSV/32676		
92259360019	**MW-13**	EPA 8260	MSV/32676		
92259360020	**MW-14**	EPA 8260	MSV/32676		
92259360021	**MW-15**	EPA 8260	MSV/32676		
92259360022	**DUP-1**	EPA 8260	MSV/32676		
92259360023	**EQUIP BLANK**	EPA 8260	MSV/32676		
92259360024	**TRIP BLANK**	EPA 8260	MSV/32676		

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Pace Analytical	Sample Condition Upon Receipt (SCUR)	Page 1 of 2*
	Document Number: F-CHR-CS-003-rev.16	Issuing Authority: Pace Huntersville Quality Office

Client Name: Antea Group

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ (Pace) Other_____

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

Packing Material: ☐ Bubble Wrap ☐ (Bubble Bags) ☐ None ☐ Other_____

Thermometer Used: IR Gun T1401 **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1401** No Correction

Corrected Cooler Temp.: 1.1 °C **Biological Tissue is Frozen:** Yes No (N/A)

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: JH 7/17/15

		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 Review:	TC	Date:	7/17/15
SRF Review:	TC	Date:	7/17/15

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

WO# : 92259360

92259360

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

Section A Required Client Information:

Company:	Antea Group
Address:	8008 Corporate Center Drive #100
	Charlotte, NC 28226
Email To:	gary.ribblett@anteagroup.com
Phone: (704) 543-3910	Fax:
Requested Due Date/TAT:	Standard

Section B Required Project Information:

Report To:	Gary Ribblett
Copy To:	
Purchase Order No.:	
Project Name:	International Paper Box Plant
Project Number:	5E0809329P

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	1844-3,4

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NC

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	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	Analysis Test (Y/N)	VOC 8260	8260-Acetone	Chloroethane	1.1 Dichlorethane	1.1 Dichloroethane	1.1.1 Trichloroethane	Vinyl Chloride						Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92259360
1	DW-01	WT	G			7/15/15	1505		3										X													001
2	DW-02	WT	G			7/16/15	0945		3										X													002
3	DW-03	WT	G			7/16/15	1415		3										X													003
4	DW-04	WT	G			7/15/15	1620		3										X													004
5	DW-05	WT	G			7/15/15	1205		3											X	X	X	X	X	X							005
6	MW-01	WT	G			7/16/15	1020		3										X													006
7	MW-02	WT	G			7/16/15	0920		3										X													007
8	MW-02BR	WT	G			7/15/15	1735		3										X													008
9	MW-03	WT	G			7/16/15	1035		3										X													009
10	MW-04	WT	G			7/15/15	1535		3										X													010
11	MW-05	WT	G			7/16/15	1140		3										X													011
12	MW-06	WT	G			7/16/15	1005		3										X													012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Amanda Kassay	07-17-15	13:50	B Moody, Pace	07-17-15	13:50				
	G Moody	07-17-15	16:00	Typical Headspace (AV)	7/17/15	1600	1.1	Y	N	Y

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Amanda Kassay					
SIGNATURE of SAMPLER:	Amanda Kassay	DATE Signed (MM/DD/YY): 7/16/15				

*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.

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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: 2 of 2

Section A Required Client Information:

Company:	Antea Group
Address:	8008 Corporate Center Drive #100
	Charlotte, NC 28226
Email To:	gary.ribblett@anteagroup.com
Phone: (704) 543-3910	Fax:
Requested Due Date/TAT:	Standard

Section B Required Project Information:

Report To:	Gary Ribblett
Copy To:	
Purchase Order No.:	
Project Name:	Weyerhaeuser Moncure
Project Number:	

Section C Invoice Information:

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

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NC

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	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	Analysis Test (Y/N): VOC 8260	8260-Acetone	Chloroethane	1.1 Dichlorethane	1.1 Dichloroethane	1.1.1 Trichloroethane	Vinyl Chloride	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92259360
1	MW-07	WT	G			7/16/15	1115		3				X					X								013
2	MW-08	WT	G			7/15/15	1705		3				X					X								014
3	MW-09	WT	G			7/15/15	1750		3				X					X								015
4	MW-10	WT	G			7/16/15	1410		3				X					X								016
5	MW-11	WT	G			7/15/15	1115		3				X						X	X	X	X	X	X		017
6	MW-12	WT	G			7/15/15	1240		3				X						X	X	X	X	X	X		018
7	MW-13	WT	G			7/16/15	1155		3				X					X								019
8	MW-14	WT	G			7/15/15	1645		3				X						X	X	X	X	X	X		020
9	MW-15	WT	G			7/16/15	0855		3				X					X								021
10	DUP-1	WT	G			7/16/15	—		3				X													022
11	Equip Blank ~~Equip-1~~	WT	G			7/15/15	1120		3				X					X								023
12	Trip Blank	WT	G			—	—		2				X					X								024

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)
	Amanda Kassay	07-17-15	13:50	[illegible] Pace	07-17-15	13:50				
	[illegible]	07-17-15	16:00	[illegible] Pace HVI	7/17/15	16:00	1.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Kassay

SIGNATURE of SAMPLER: Amanda Kassay DATE Signed (MM/DD/YY): 7/16/15

*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.

Appendix D

Groundwater Sampling Records

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper		
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Event:	~~June 2014~~ July 2015 Groundwater Sampling
Sampling Personnel:	Barrett McMullan, ~~Matthew Eckmair~~ Amanda Kessary	Well ID:	DW-01
Job Number:	5E0809329P	Date:	7/15/15
Weather:	90° sunny	Time In:	1427 Time Out: —

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		13.14	
Total Depth	(feet)		59.00	
Screened Interval	(feet)			
Pump Intake ~	(feet)			

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐

Well Locked: Yes ☑ No ☐

Measuring Point Marked: Yes ☑ No ☐

Well Diameter: 1" ☐ 2" ☑ Other: ___

WELL WATER INFORMATION

Length of Water Column:	(feet)	45.86
Volume of Water In Well:	(gal)	7.48
Pumping Rate of Pump:	(mL/min)	1.00 gpm
PumpStart: —	Pump Stop: —	
Minutes of Pumping: —		
Total Volume Removed:	0 (ml)	~~22.50~~ 15.00 gal

Conversion Factors

gallons per feet	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: DW-01

Sample Time: 1505

MS/MSD: Yes ☐ No ☑

Duplicate: Yes ☐ No ☑

Duplicate ID: —

Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☐	Other Pump ☑ ESP
Tubing Used:	Teflon ☐	Polyethylene ☑		
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☐	Other Pump ☑ ESP

Did well go dry? Yes ☑ No ☐ Water Quality Meter Type: ~~Horiba U-22~~ HI 9829

Time / Parameter	1 ~~1426~~ 1450	2 ~~Final~~	3	4	5	6	7	8	9
Rate (ml/min) gpm	1.00 gpm	1.00	3						
Depth to Water (ft. TOC)	13.14	13.14							
Temperature (°C)	21.97	21.32	5						
pH	6.66	6.56							
Conductance (µS/cm)	264	266	(3)						
Dissolved Oxygen mg/L)	5.37	4.60							
Turbidity (NTU)	16.2	88.0	5						
ORP (mV)	27.0	18.7	5						

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Solonist

Decontamination Fluids Used: Alconox

Ambient Air (ppm): — Well Mouth (ppm): —

Sample Observations: —

MISCELLANEOUS OBSERVATIONS/PROBLEMS

—

SAMPLE DESTINATION

Laboratory: Pace Analytical

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other

Sample was ☐ shipped day of sampling ☑ picked up on 7/17/15

Chain of Custody Signed By: [signature]

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper		
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Event:	July 2015 ~~June 2014~~ Groundwater Sampling
Sampling Personnel:	Barrett McMullan, ~~Matthew Eckmal~~ Amanda King	Well ID:	DW-02
Job Number:	5E0809329P	Date:	7/16/15
Weather:	78° sunny	Time In:	0924
		Time Out:	/

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		9.65	
Total Depth	(feet)	/	33.50	/
Screened Interval	(feet)	/	/	/
Pump Intake ~	(feet)			

check where appropriate

Well Type:	Flushmount ☑	Stick-Up ☐
Well Locked:	Yes ☑	No ☐
Measuring Point Marked:	Yes ☑	No ☐
Well Diameter:	1" ☐	2" ☑ Other: ___

WELL WATER INFORMATION

Length of Water Column:	(feet)	23.85
Volume of Water in Well:	(gal)	3.89
Pumping Rate of Pump:	(mL/min)	/
PumpStart: /	Pump Stop:	
Minutes of Pumping:	/	
Total Volume Removed:	0 (ml)	/

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analytes:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other: ___		☐
		☐

Sample ID: DW-02
Sample Time: 0945
MS/MSD: Yes ☐ No ☑
Duplicate: Yes ☐ No ☑
Duplicate ID: —
Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method:	Bailer ☑	Peristaltic ☐	Bladder ☐	Other Pump ☐ ___
Tubing Used:	Teflon ☑	Polyethylene ☐		
Sampling Method:	Bailer ☑	Peristaltic ☐	Bladder ☐	Other Pump ☐ ___

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: ~~Horiba U-22~~ HI 9829

Time / Parameter	1	2	3	4	5	6	7	8	9
	0931	0937	0945	/	/	/	/	/	/
Rate (ml/min)	/	/	/						
Depth to Water (ft. TOC)	9.65	9.65	9.65						
Temperature (°C)	19.50	19.90	20.13						
pH	6.73	6.84	6.86						
Conductance (mS/cm)	607	600	613						
Dissolved Oxygen mg/L)	3.80	3.67	4.15						
Turbidity (NTU)	76.6	19.4	18.8						
ORP (mV)	-141.5	-154.8	-154.8						

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Solinist

Decontamination Fluids Used: Alconox

Ambient Air (ppm): / Well Mouth (ppm): /

Sample Observations: /

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: Pace Analytical

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other ___

Sample Was ☐ shipped day of sampling ☑ picked up on 7/17/15

Chain of Custody Signed By: Amanda King

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper	Event:	July 2015 ~~June 2014~~ Groundwater Sampling
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Well ID:	DW-03
Sampling Personnel:	Barrett McMullan, ~~Matthew Eckmair~~ Amanda Kassay	Date:	7/16/15
Job Number:	5E0809329P	Time In:	1347
Weather:	80° F Sunny	Time Out:	

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		8.00	
Total Depth	(feet)		30.00	
Screened Interval	(feet)			
Pump Intake ~	(feet)			

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐

Well Locked: Yes ☑ No ☐

Measuring Point Marked: Yes ☑ No ☐

Well Diameter: 1" ☐ 2" ☑ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	22
Volume of Water in Well:	(gal)	3.59
Pumping Rate of Pump:	(mL/min)	
PumpStart:	Pump Stop:	
Minutes of Pumping:		
Total Volume Removed:	0 (ml)	4.0

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

EVACUATION INFORMATION

Evacuation Method:	Bailer ☑	Peristaltic ☐	Bladder ☐	Other Pump ☐ ____
Tubing Used:	Teflon ☑	Polyethylene ☐		
Sampling Method:	Bailer ☑	Peristaltic ☐	Bladder ☐	Other Pump ☐ ____

Did well go dry? Yes ☑ No ☐ Water Quality Meter Type: ~~Horiba U-22~~ HI 9829

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other: ____		☐
		☐

Sample ID: ~~MW~~ DW-03

Sample Time: 1415

MS/MSD: Yes ☐ No ☑

Duplicate: Yes ☐ No ☑

Duplicate ID: —

Total Bottles: 3

Time / Parameter	1	2	3	4	5	6	7	8	9
	Final								
Rate (ml/min)									
Depth to Water (ft. TOC)									
Temperature (°C)	23.3								
pH	12.06								
Conductance (mS/cm)	937								
Dissolved Oxygen mg/L)	4.06								
Turbidity (NTU)	47.0								
ORP (mV)	-285.0								

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Solinist

Decontamination Fluids Used: Alconox

Ambient Air (ppm): ____ Well Mouth (ppm): ____

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: Pace Analytical

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other

Sample was ☐ shipped day of sampling ☑ picked up on 7/17/15

Chain of Custody Signed By: [signature]

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper	Event:	July 2015 ~~June 2014~~ Groundwater Sampling
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Well ID:	DW-04
Sampling Personnel:	Barrett McMullan, ~~Matthew Eckmair~~ Amanda Kassary	Date:	7/15/15
Job Number:	5E0809329P	Time In:	1547
Weather:	90° sunny, cloudy	Time Out:	

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		9.99	
Total Depth	(feet)		60.00	
Screened Interval	(feet)			
Pump Intake ~	(feet)			

check where appropriate

Well Type:	Flushmount	☑	Stick-Up	☐
Well Locked:	Yes	☑	No	☐
Measuring Point Marked:	Yes	☑	No	☐
Well Diameter:	1" ☐	2" ☑	Other:	

WELL WATER INFORMATION

Length of Water Column:	(feet)	50.01
Volume of Water in Well:	(gal)	8.15
Pumping Rate of Pump:	(mL/min)	1.00 gpm
PumpStart:	Pump Stop:	
Minutes of Pumping:		
Total Volume Removed:	0 (ml)	25.00 gal

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: DW-04
Sample Time: 1620
MS/MSD: Yes ☐ No ☑
Duplicate: Yes ☑ No ☐
Duplicate ID: DUP-01
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☐	Other Pump ☑ ESP
Tubing Used:	Teflon ☐	Polyethylene ☑		
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☐	Other Pump ☑ ESP

Did well go dry? Yes ☐ No ☑

Water Quality Meter Type: ~~Horiba U-22~~ HI 9829

Time / Parameter	1	2	3	4	5	6	7	8	9
	1558	1608	1615						
Rate (ml/min) gpm	1.00 gpm	1.00 gpm	1.00 gpm						
Depth to Water (ft. TOC)	9.99	9.99	9.99						
Temperature (°C)	21.84	22.47	21.20						
pH	6.40	6.34	6.36						
Conductance (µS/cm)	278	260	244						
Dissolved Oxygen mg/L)	2.89	2.85	3.46						
Turbidity (NTU)	115	92.9	68.0						
ORP (mV)	-70.7	-41.1	-40.3						

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Solenist

Decontamination Fluids Used: Alconox

Ambient Air (ppm): Well Mouth (ppm):

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: Pace Analytical

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other

Sample was ☐ shipped day of sampling ☑ picked up on 7/17/15

Chain of Custody Signed By: Anda Kassary

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper	Event:	~~June 2014~~ July 2015 Groundwater Sampling
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Well ID:	PW-05
Sampling Personnel:	Barrett McMullan, ~~Matthew Eckman~~ Amber Kassay	Date:	7/15/15
Job Number:	5E0809329P	Time In:	1145
Weather:	90°, sunny / cloudy	Time Out:	

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)	~~[illegible]~~	12.97	
Total Depth	(feet)	~~[illegible]~~	~~80.00~~	80.00
Screened Interval	(feet)			
Pump Intake ~	(feet)			

check where appropriate

Well Type:	Flushmount	☑	Stick-Up	☐
Well Locked:	Yes	☑	No	☐
Measuring Point Marked:	Yes	☑	No	☐
Well Diameter:	1" ☐	2" ☑	Other:	

WELL WATER INFORMATION

Length of Water Column:	(feet)	67.03
Volume of Water in Well:	(gal)	10.92
Pumping Rate of Pump:	(mL/min)	1.50 gpm
PumpStart:	Pump Stop:	
Minutes of Pumping:		
Total Volume Removed:	0 (ml)	12.50

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: PW-05
Sample Time: 1205
MS/MSD: Yes ☐ No ☑
Duplicate: Yes ☐ No ☑
Duplicate ID: —
Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☐	Other Pump ☑ ESP
Tubing Used:	Teflon ☐	Polyethylene ☑		
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☐	Other Pump ☑ ESP

Did well go dry? Yes ☑ No ☐ Water Quality Meter Type: ~~Horiba U-22~~ HI-9829

Time / Parameter	1	Final	3	4	5	6	7	8	9
	1201		1215						
Rate (ml/min) gpm	1.50 gpm	1.50 gpm							
Depth to Water (ft. TOC)	12.97	12.97							
Temperature (°C)	26.51	23.08							
pH	7.02	6.83							
Conductance (µS/cm)	195	1.94							
Dissolved Oxygen mg/L)	4.18	3.31							
Turbidity (NTU)	6.70	0.0							
ORP (mV)	-19.2	1.20							

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Solenist

Decontamination Fluids Used: Alconox

Ambient Air (ppm): Well Mouth (ppm):

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: Pace Analytical

Sample was ☐ shipped day of sampling ☑ picked up on 7/17/15

Chain of Custody Signed By: [signature]

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper	Event:	July 2015 ~~June 2014~~ Groundwater Sampling
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Well ID:	MW-01
Sampling Personnel:	Barrett McMullan, ~~Matthew Eckman~~ Amanda Kassy	Date:	7/16/15
Job Number:	5E0809329P	Time In:	1013 Time Out:
Weather:	90° Sunny		

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		4.96	
Total Depth	(feet)		15.00	
Screened Interval	(feet)			
Pump Intake ~	(feet)			

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐

Well Locked: Yes ☑ No ☐

Measuring Point Marked: Yes ☑ No ☐

Well Diameter: 1" ☐ 2" ☑ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	10.04
Volume of Water in Well:	(gal)	1.64
Pumping Rate of Pump:	(mL/min)	
PumpStart:	Pump Stop:	
Minutes of Pumping:		
Total Volume Removed:	0 (ml)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: MW-01

Sample Time: 1020

MS/MSD: Yes ☐ No ☐

Duplicate: Yes ☐ No ☐

Duplicate ID: –

Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method:	Bailer ☑	Peristaltic ☐	Bladder ☐	Other Pump ☐ ____
Tubing Used:	Teflon ☑	Polyethylene ☐		
Sampling Method:	Bailer ☑	Peristaltic ☐	Bladder ☐	Other Pump ☐ ____

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: ~~Horiba U-22~~ HI 98129

Time / Parameter	1	2	3	4	5	6	7	8	9
	1015	1017	1020						
Rate (ml/min)									
Depth to Water (ft. TOC)	4.96	4.96	4.96						
Temperature (°C)	21.87	20.47	21.02						
pH	6.33	6.37	6.34						
Conductance (mS/cm)	203	202	199						
Dissolved Oxygen mg/L)	3.20	3.22	2.99						
Turbidity (NTU)	45.0	98	80.2						
ORP (mV)	-87.6	-90.3	-89.9						

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: solinst

Decontamination Fluids Used: Alconox

Ambient Air (ppm): ____ Well Mouth (ppm): ____

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: Pace Analytical

Sample was ☐ shipped day of sampling ☑ picked up on 7/17/15

Chain of Custody Signed By: [signature]

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other ____

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper		July 2015
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Event:	June 2014 Groundwater Sampling
Sampling Personnel:	Barrett McMullan, ~~Matthew Eckman~~ Amanda Kassay	Well ID:	MW-02
Job Number:	5E0809329P	Date:	7/16/15
Weather:	80°F, Sunny	Time In:	0940 Time Out: /

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		5.19	
Total Depth	(feet)		15.00	
Screened Interval	(feet)			
Pump Intake ~	(feet)			

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐

Well Locked: Yes ☑ No ☐

Measuring Point Marked: Yes ☑ No ☐

Well Diameter: 1" ☐ 2" ☑ Other: ___

WELL WATER INFORMATION

Length of Water Column:	(feet)	9.81
Volume of Water in Well:	(gal)	1.59
Pumping Rate of Pump:	(mL/min)	—
PumpStart: —	Pump Stop: —	
Minutes of Pumping:		
Total Volume Removed:	0 (ml)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: MW-02

Sample Time: 0920

MS/MSD: Yes ☐ No ☑

Duplicate: Yes ☐ No ☑

Duplicate ID: —

Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method: Bailer ☑ Peristaltic ☐ Bladder ☐ Other Pump ☐ ___

Tubing Used: Teflon ☑ Polyethylene ☐

Sampling Method: Bailer ☑ Peristaltic ☐ Bladder ☐ Other Pump ☐ ___

Did well go dry? Yes ☐ No ☑

Water Quality Meter Type: Horiba U-22 HI 9829

Time / Parameter	1	2	3	4	5	6	7	8	9
	0913	0915	0920						
Rate (ml/min)	—	—	—						
Depth to Water (ft. TOC)	—	—	—						
Temperature (°C)	21.98	20.78	20.91						
pH	6.16	6.06	6.10						
Conductance (mS/cm)	140	136	141						
Dissolved Oxygen mg/L)	4.13	3.58	4.09						
Turbidity (NTU)	401	753	442						
ORP (mV)	-76.1	-64.8	-64.0						

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Solinst

Decontamination Fluids Used: Alconox

Ambient Air (ppm): — Well Mouth (ppm): —

Sample Observations: —

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: Pace Analytical

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other ___

Sample was ☐ shipped day of sampling ☑ picked up on 7/17/15

Chain of Custody Signed By: Amanda Kassay

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper	Event:	July 2015 ~~June 2014~~ Groundwater Sampling
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Well ID:	MW-02BR
Sampling Personnel:	Barrett McMullan, ~~Matthew Eckmair~~ Amanda Kassay	Date:	7/15/2015
Job Number:	5E0809329P	Time In:	1717 Time Out:
Weather:	90° sunny, cloudy		

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		10.44	
Total Depth	(feet)		20.00	
Screened Interval	(feet)			
Pump Intake ~	(feet)			

check where appropriate

Well Type:	Flushmount	☑	Stick-Up	☐
Well Locked:	Yes	☑	No	☐
Measuring Point Marked:	Yes	☑	No	☐
Well Diameter:	1" ☐	2" ☑	Other:	

WELL WATER INFORMATION

Length of Water Column:	(feet)	9.56
Volume of Water in Well:	(gal)	1.56
Pumping Rate of Pump:	(mL/min)	
PumpStart:	Pump Stop:	
Minutes of Pumping:		
Total Volume Removed:	0 (ml)	4.70 gal

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: MW-02BR
Sample Time: 1735
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method:	Bailer ☑	Peristaltic ☐	Bladder ☐	Other Pump ☐
Tubing Used:	Teflon ☐	Polyethylene ☑		
Sampling Method:	Bailer ☑	Peristaltic ☐	Bladder ☐	Other Pump ☐

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: ~~Horiba U-22~~ HI-9829

Time / Parameter	1	2	3	4	5	6	7	8	9
	1725	1727	1735						
Rate (ml/min)									
Depth to Water (ft. TOC)	10.44	10.44	10.44						
Temperature (°C)	19.69	18.34	19.56						
pH	6.63	6.69	6.64						
Conductance (mS/cm)	540	557	543						
Dissolved Oxygen mg/L)	3.11	3.55	4.08						
Turbidity (NTU)	174	499	640						
ORP (mV)	-162.5	-170.4	-166.6						

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: solinist

Decontamination Fluids Used: Alconox

Ambient Air (ppm): Well Mouth (ppm):

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: Pace Analytical

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other

Sample was ☐ shipped day of sampling ☑ picked up on 7/17/15

Chain of Custody Signed By: Amanda Kassay

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper	Event:	Job 5 June 2015 Groundwater Sampling
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Well ID:	MW-03
Sampling Personnel:	Barrett McMullan, Matthew Eckmair Amanda Kerry	Date:	7/16/15
Job Number:	5E0809329P		
Weather:	80° F Sunny	Time In:	1628 Time Out: 1635

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		7.70	
Total Depth	(feet)		15.00	
Screened Interval	(feet)			
Pump Intake –	(feet)			

check where appropriate

Well Type:	Flushmount	☑	Stick-Up	☐
Well Locked:	Yes	☑	No	☐
Measuring Point Marked:	Yes	☑	No	☐
Well Diameter:	1" ☐	2" ☑	Other:	

WELL WATER INFORMATION

Length of Water Column:	(feet)	7.30
Volume of Water in Well:	(gal)	1.19
Pumping Rate of Pump:	(mL/min)	—
PumpStart: —	Pump Stop: —	
Minutes of Pumping:		—
Total Volume Removed:	0 (ml)	—

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	5" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: 1035

Sample Time: MW-03

MS/MSD: Yes ☐ No ☑

Duplicate: Yes ☐ No ☑

Duplicate ID: —

Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method:	Bailer ☑	Peristaltic ☐	Bladder ☐	Other Pump ☐
Tubing Used:	Teflon ☑	Polyethylene ☐		
Sampling Method:	Bailer ☑	Peristaltic ☐	Bladder ☐	Other Pump ☐

Did well go dry? Yes ☐ No ☑

Water Quality Meter Type: Horiba U-22 HI 9829

Time / Parameter	1	2	3	4	5	6	7	8	9
	1030	1032	1035						
Rate (ml/min)	—	—	—						
Depth to Water (ft. TOC)	—	—	—						
Temperature (°C)	22.80	22.61	22.51						
pH	6.34	6.39	6.43						
Conductance (mS/cm)	379	394	393						
Dissolved Oxygen mg/L)	2.85	2.94	3.33						
Turbidity (NTU)	278	241	532						
ORP (mV)	-88.1	-93.4	-92.0						

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Solinist

Decontamination Fluids Used: Alconox

Ambient Air (ppm): — Well Mouth (ppm): —

Sample Observations: —

MISCELLANEOUS OBSERVATIONS/PROBLEMS —

SAMPLE DESTINATION

Laboratory: Pace Analytical

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other

Sample was ☐ shipped day of sampling ☑ picked up on 7/17/15

Chain of Custody Signed By: Amanda Kerry

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper		July 2015
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Event:	~~June 2014~~ Groundwater Sampling
Sampling Personnel:	Barrett McMullan, ~~Matthew Eckmair~~ Amanda Kassny	Well ID:	MW-04
Job Number:	5E0809329P	Date:	7/15/15
Weather:	90° cloudy	Time In:	1513
		Time Out:	/

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)	/	15.74	/
Total Depth	(feet)	/	20.00	/
Screened Interval	(feet)	/	/	/
Pump Intake ~	(feet)	/	/	/

check where appropriate

Well Type:	Flushmount ☐		Stick-Up ☑	
Well Locked:	Yes ☑		No ☐	
Measuring Point Marked:	Yes ☑		No ☐	
Well Diameter:	1" ☐	2" ☑	Other:	

WELL WATER INFORMATION

Length of Water Column:	(feet)	4.26
Volume of Water in Well:	(gal)	0.70
Pumping Rate of Pump:	(mL/min)	/
PumpStart: /	Pump Stop:	/
Minutes of Pumping:		/
Total Volume Removed:	0 (ml)	1.50 gal

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: MW-04
Sample Time: 1535
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID: /
Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method:	Bailer ☑	Peristaltic ☐	Bladder ☐	Other Pump ☐
Tubing Used:	Teflon ☐	Polyethylene ☑		
Sampling Method:	Bailer ☑	Peristaltic ☐	Bladder ☐	Other Pump ☐

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: ~~Horiba U-22~~ HI 9829

Time / Parameter	1	2	3	4	5	6	7	8	9
	1523	1527	1535						
Rate (ml/min)	/	/	/						
Depth to Water (ft. TOC)	15.74	15.74	15.74						
Temperature (°C)	18.42	18.37	18.44						
pH	6.29	6.37	6.36						
Conductance (mS/cm)	616	615	625						
Dissolved Oxygen mg/L)	2.95	3.09	3.34						
Turbidity (NTU)	27.0	42.3	16.0						
ORP (mV)	-102.6	-102.1	-99.1						

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Solenist

Decontamination Fluids Used: Alconox

Ambient Air (ppm): / Well Mouth (ppm): /

Sample Observations: /

MISCELLANEOUS OBSERVATIONS/PROBLEMS

/

SAMPLE DESTINATION

Laboratory: Pace Analytical

Sample was ☐ shipped day of sampling ☑ picked up on 7/17/15

Chain of Custody Signed By: [signature]

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper		
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Event:	~~June 2014~~ JULY 2015 Groundwater Sampling
Sampling Personnel:	Barrett McMullan, ~~Matthew Eckmais~~ Amanda Kassay	Well ID:	MW-05
Job Number:	5E0809329P	Date:	7/16/15
Weather:	90° F sunny	Time In:	1126 Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		5.46	
Total Depth	(feet)		20.00	
Screened Interval	(feet)			
Pump Intake ~	(feet)			

check where appropriate

Well Type:	Flushmount	☑	Stick-Up	☐
Well Locked:	Yes	☑	No	☐
Measuring Point Marked:	Yes	☑	No	☐
Well Diameter:	1" ☐	2" ☑	Other:	

WELL WATER INFORMATION

Length of Water Column:	(feet)	14.54
Volume of Water in Well:	(gal)	2.37
Pumping Rate of Pump:	(mL/min)	
PumpStart:	Pump Stop:	
Minutes of Pumping:		
Total Volume Removed:	0 (ml)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: MW-05
Sample Time: 1140
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID: —
Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method:	Bailer ☑	Peristaltic ☐	Bladder ☐	Other Pump ☐
Tubing Used:	Teflon ☑	Polyethylene ☐		
Sampling Method:	Bailer ☑	Peristaltic ☐	Bladder ☐	Other Pump ☐

Did well go dry? Yes ☐ No ☑

Water Quality Meter Type: ~~Horiba U-22~~ HI 9829

Time / Parameter	1	2	3	4	5	6	7	8	9
	1130	1134	1140						
Rate (ml/min)									
Depth to Water (ft. TOC)	5.46	5.46	5.46						
Temperature (°C)	21.84	21.81	21.46						
pH	5.13	5.06	5.02						
Conductance (µS/cm)	81	72	79						
Dissolved Oxygen mg/L)	3.58	4.92	3.50						
Turbidity (NTU)	18.2	19.5	16.4						
ORP (mV)	66.5	71.6	113.5						

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Solinist

Decontamination Fluids Used: Alconox

Ambient Air (ppm): Well Mouth (ppm):

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

~~[illegible]~~ casing bent approx. 1 foot BTOC

SAMPLE DESTINATION

Laboratory: Pace Analytical

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other

Sample was ☐ shipped day of sampling ☑ picked up on 7/17/15

Chain of Custody Signed By: [signature]

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper		
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Event:	July 2015 ~~June 2014~~ Groundwater Sampling
Sampling Personnel:	Barrett McMullan, ~~Matthew Eckman~~ Amanda Kessey	Well ID:	MW-06
Job Number:	5E0809329P	Date:	7/26/15
Weather:	90° Sunny	Time In:	0950 Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		7.97	
Total Depth	(feet)		15.00	
Screened Interval	(feet)			
Pump Intake ~	(feet)			

check where appropriate

Well Type: Flushmount ☒ Stick-Up ☐

Well Locked: Yes ☒ No ☐

Measuring Point Marked: Yes ☒ No ☐

Well Diameter: 1" ☐ 2" ☒ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	7.03
Volume of Water in Well:	(gal)	1.15
Pumping Rate of Pump:	(mL/min)	
PumpStart:	Pump Stop:	
Minutes of Pumping:		
Total Volume Removed:	0 (ml)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

VOC	8260	☒
Metals	6010	☐
Inorganics	Various	☐
		☐
Other: ____		☐
		☐

Sample ID: 0950

Sample Time: 1005

MS/MSD: Yes ☐ No ☒

Duplicate: Yes ☐ No ☒

Duplicate ID: —

Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method: Bailer ☒ Peristaltic ☐ Bladder ☐ Other Pump ☐ ____

Tubing Used: Teflon ☒ Polyethylene ☐

Sampling Method: Bailer ☒ Peristaltic ☐ Bladder ☐ Other Pump ☐ ____

Did well go dry? Yes ☐ No ☒ Water Quality Meter Type: ~~Horiba U-22~~ HI 9829

Time / Parameter	1	2	3	4	5	6	7	8	9
	0957	1001	1005						
Rate (ml/min)									
Depth to Water (ft. TOC)	7.97	7.97	7.97						
Temperature (°C)	21.28	21.25	21.66						
pH	6.11	6.01	4.03						
Conductance (µS/cm)	144	151	153						
Dissolved Oxygen mg/L)	3.25	3.04	2.98						
Turbidity (NTU)	201	198	27.7						
ORP (mV)	-56.5	-50.5	-47.7						

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Solenist

Decontamination Fluids Used: Alconox

Ambient Air (ppm): — Well Mouth (ppm):

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: Pace Analytical

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other

Sample was ☐ shipped day of sampling ☒ picked up on 7/27/15

Chain of Custody Signed By: [signature]

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper		July 2015
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Event:	~~June 2014~~ Groundwater Sampling
Sampling Personnel:	Barrett McMullan, ~~Matthew Eckman~~ Amanda Kasey	Well ID:	MW-07
Job Number:	5E0809329P	Date:	7/16/15
Weather:	90° F sunny	Time In:	1004
		Time Out:	/

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		10.17	
Total Depth	(feet)		15.00	
Screened Interval	(feet)			
Pump Intake –	(feet)			

check where appropriate

Well Type:	Flushmount	☑	Stick-Up	☐
Well Locked:	Yes	☑	No	☐
Measuring Point Marked:	Yes	☑	No	☐
Well Diameter:	1" ☐	2" ☑	Other:	

WELL WATER INFORMATION

Length of Water Column:	(feet)	4.83
Volume of Water In Well:	(gal)	0.79
Pumping Rate of Pump:	(mL/min)	—
PumpStart: —	Pump Stop: —	
Minutes of Pumping:		—
Total Volume Removed:	0 (ml)	—

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: MW-07

Sample Time: 1115

MS/MSD: Yes ☐ No ☑

Duplicate: Yes ☐ No ☑

Duplicate ID: —

Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method: Bailer ☑ Peristaltic ☐ Bladder ☐ Other Pump ☐ _____

Tubing Used: Teflon ☑ Polyethylene ☐

Sampling Method: Bailer ☑ Peristaltic ☐ Bladder ☐ Other Pump ☐ _____

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: ~~Horiba U-22~~ HI 9829

Time / Parameter	1	2	3	4	5	6	7	8	9
	1108	1112	1115						
Rate (ml/min)	—	—	—						
Depth to Water (ft. TOC)	—	—	—						
Temperature (°C)	21.73	20.69	20.72						
pH	5.76	5.80	5.77						
Conductance (mS/cm)	86	95	100						
Dissolved Oxygen mg/L)	2.95	3.20	3.18						
Turbidity (NTU)	72.1	80.6	163						
ORP (mV)	-16.2	-19.2	-13.2						

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Solonist

Decontamination Fluids Used: Alconox

Ambient Air (ppm): — Well Mouth (ppm): —

Sample Observations: —

MISCELLANEOUS OBSERVATIONS/PROBLEMS: —

SAMPLE DESTINATION

Laboratory: Pace Analytical

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other

Sample was ☐ shipped day of sampling ☑ picked up on 7/17/15

Chain of Custody Signed By: Amanda Kasey

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper	Event:	July 2015 ~~June 2014~~ Groundwater Sampling
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Well ID:	MW-08
Sampling Personnel:	Barrett McMullan, ~~Matthew Eckman~~ Amber Kessy	Date:	7/15/15
Job Number:	5E0809329P	Time In:	1654 Time Out:
Weather:	90° Sunny		

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		12.99	
Total Depth	(feet)		20.00	
Screened Interval	(feet)			
Pump Intake ~	(feet)			

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐

Well Locked: Yes ☑ No ☐

Measuring Point Marked: Yes ☑ No ☐

Well Diameter: 1" ☐ 2" ☑ Other: ___

WELL WATER INFORMATION

Length of Water Column:	(feet)	7.01
Volume of Water in Well:	(gal)	1.14
Pumping Rate of Pump:	(mL/min)	
PumpStart:	Pump Stop:	
Minutes of Pumping:		
Total Volume Removed:	0 (ml)	3.75 gall

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analytes:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: MW-08

Sample Time: 1705

MS/MSD: Yes ☐ No ☑

Duplicate: Yes ☐ No ☑

Duplicate ID: —

Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method: Bailer ☑ Peristaltic ☐ Bladder ☐ Other Pump ☐ ___

Tubing Used: Teflon ☐ Polyethylene ☑

Sampling Method: Bailer ☑ Peristaltic ☐ Bladder ☐ Other Pump ☐ ___

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: ~~Horiba U-22~~ HI-9829

Time / Parameter	1	2	3	4	5	6	7	8	9
	1658	1700	1705						
Rate (ml/min)	—	—	—						
Depth to Water (ft. TOC)	12.99	12.99	12.99						
Temperature (°C)	20.55	20.92	21.30						
pH	5.02	4.78	4.74						
Conductance (mS/cm)	49	46	49						
Dissolved Oxygen (mg/L)	4.52	4.29	4.42						
Turbidity (NTU)	740	<1000	46.2						
ORP (mV)	100.7	191.8	225.0						

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Solenist

Decontamination Fluids Used: Alconox

Ambient Air (ppm): — Well Mouth (ppm): —

Sample Observations: —

MISCELLANEOUS OBSERVATIONS/PROBLEMS

—

SAMPLE DESTINATION

Laboratory: Pace Analytical

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other ___

Sample was ☐ shipped day of sampling ☑ picked up on 7/17/15

Chain of Custody Signed By: [signature]

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper	Event:	July 2015 ~~June 2014 Groundwater Sampling~~
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Well ID:	MW-09
Sampling Personnel:	Barrett McMullan, ~~Matthew Eckman~~ Annalee Kassny	Date:	7/15/15
Job Number:	5E0809329P		
Weather:	90° Sunny	Time In:	1741
		Time Out:	—

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)	/	8.66	/
Total Depth	(feet)	/	13.00	/
Screened Interval	(feet)	/	/	/
Pump Intake ~	(feet)	/	/	/

check where appropriate

Well Type:	Flushmount	☑	Stick-Up	☐
Well Locked:	Yes	☑	No	☐
Measuring Point Marked:	Yes	☑	No	☐
Well Diameter:	1" ☐	2" ☑	Other:	

WELL WATER INFORMATION

Length of Water Column:	(feet)	4.34
Volume of Water in Well:	(gal)	0.71
Pumping Rate of Pump:	(mL/min)	—
PumpStart: /	Pump Stop: /	
Minutes of Pumping:		—
Total Volume Removed:	0 (ml)	2.12 gal

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: MW-09

Sample Time: 1750

MS/MSD: Yes ☐ No ☑

Duplicate: Yes ☐ No ☑

Duplicate ID: —

Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method:	Bailer ☑	Peristaltic ☐	Bladder ☐	Other Pump ☐
Tubing Used:	Teflon ☑	Polyethylene ☐		
Sampling Method:	Bailer ☑	Peristaltic ☐	Bladder ☐	Other Pump ☐

Did well go dry? Yes ☐ No ☑

Water Quality Meter Type: ~~Horiba U-22~~ HI 9829

Time / Parameter	1	2	3	4	5	6	7	8	9
Rate (ml/min)	—	—	—						
Depth to Water (ft. TOC)	8.66	—	—						
Temperature (°C)	20.52	19.78	19.89						
pH	6.41	6.29	6.24						
Conductance (mS/cm)	356	343	350						
Dissolved Oxygen mg/L)	4.62	4.80	3.91						
Turbidity (NTU)	156	90.8	116						
ORP (mV)	-78.2	-45.1	-6.1						

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Solenist

Decontamination Fluids Used: Alconox

Ambient Air (ppm): / Well Mouth (ppm): /

Sample Observations: /

MISCELLANEOUS OBSERVATIONS/PROBLEMS

/

SAMPLE DESTINATION

Laboratory: Pace Analytical

Sample was ☐ shipped day of sampling ☑ picked up on 7/17/15

Chain of Custody Signed By: [signature]

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper	Event:	July 2015 ~~June 2014~~ Groundwater Sampling
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Well ID:	MW-10
Sampling Personnel:	Barrett McMullan, ~~Matthew Eckmair~~ Amanda Kassay	Date:	7/16/15
Job Number:	5E0809329P	Time In:	1359 Time Out:
Weather:	90°F Sunny		

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		5.22	
Total Depth	(feet)		13.00	
Screened Interval	(feet)			
Pump Intake ~	(feet)			

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐

Well Locked: Yes ☑ No ☐

Measuring Point Marked: Yes ☑ No ☐

Well Diameter: 1" ☐ 2" ☑ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	7.78
Volume of Water in Well:	(gal)	1.27
Pumping Rate of Pump:	(mL/min)	
PumpStart:	Pump Stop:	
Minutes of Pumping:		
Total Volume Removed:	0 (ml)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other: ____		☐
		☐

Sample ID: MW-10

Sample Time: 1410

MS/MSD: Yes ☐ No ☑

Duplicate: Yes ☐ No ☑

Duplicate ID: —

Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method: Bailer ☑ Peristaltic ☐ Bladder ☐ Other Pump ☐ ____

Tubing Used: Teflon ☑ Polyethylene ☐

Sampling Method: Bailer ☑ Peristaltic ☐ Bladder ☐ Other Pump ☐ ____

Did well go dry? Yes ☐ No ☑

Water Quality Meter Type: ~~Horiba U-22~~ HI 9289

Time / Parameter	1	2	3	4	5	6	7	8	9
	1402	1405	1410						
Rate (ml/min)	—	—	—						
Depth to Water (ft. TOC)	—	—	—						
Temperature (°C)	25.51	25.39	24.17						
pH	7.82	6.76	6.79						
Conductance (mS/cm)	173	201	222						
Dissolved Oxygen (mg/L)	6.71	3.82	3.42						
Turbidity (NTU)	237	158	212						
ORP (mV)	-169.7	-139.2	-134.7						

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Solinist

Decontamination Fluids Used: Alconox

Ambient Air (ppm): — Well Mouth (ppm): —

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: Pace Analytical

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other ____

Sample was ☐ shipped day of sampling ☒ picked up on 7/17

Chain of Custody Signed By: Amanda Kassay

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper	Event:	July 2015 ~~June 2014~~ Groundwater Sampling
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Well ID:	MW-11
Sampling Personnel:	Barrett McMullan, ~~Matthew Eckman~~ Amanda Kassay	Date:	7/15/15
Job Number:	5E0809329P	Time In:	1040 Time Out: —
Weather:	90, Sunny		

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)	/	7.36	/
Total Depth	(feet)		18.00	
Screened Interval	(feet)		—	
Pump Intake ~	(feet)		—	

check where appropriate

Well Type:	Flushmount	☒	Stick-Up	☐
Well Locked:	Yes	☒	No	☐
Measuring Point Marked:	Yes	☒	No	☐
Well Diameter:	1" ☐	2" ☐	Other:	4"

WELL WATER INFORMATION

Length of Water Column:	(feet)	10.64
Volume of Water in Well:	(gal)	6.95
Pumping Rate of Pump:	(mL/min)	1 gpm
PumpStart:	Pump Stop:	/
Minutes of Pumping:		/
Total Volume Removed:	0 (ml)	21 gal

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Use Sobility

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

VOC	8260	☒
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: MW-11
Sample Time: 1115
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Duplicate ID: /
Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☐	Other Pump ☒ ESP
Tubing Used:	Teflon ☐	Polyethylene ☒		
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☐	Other Pump ☒ ESP

Did well go dry? Yes ☐ No ☒ Water Quality Meter Type: ~~Horiba U-22~~ HI 9829

Time / Parameter	1	2	3	4	5	6	7	8	9
	1058	1104	1111						
Rate ~~(ml/min)~~ gpm	1.00	1.00	1.00						
Depth to Water (ft. TOC)	7.36	7.36	7.36						
Temperature (°C)	23.18	20.29	21.01						
pH	5.80	6.16	6.23						
Conductance (~~µS~~/cm)	111	168	210						
Dissolved Oxygen mg/L)	3.33	2.96	3.00						
Turbidity (NTU)	27.0	7.4	7.5						
ORP (mV)	-102.9	-104.8	-105.6						

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Solenist

Decontamination Fluids Used: Alconox

Ambient Air (ppm): / Well Mouth (ppm): /

Sample Observations: /

MISCELLANEOUS OBSERVATIONS/PROBLEMS /

SAMPLE DESTINATION

Laboratory: Pace Analytical

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other

Sample was ☐ shipped day of sampling ☒ picked up on 7/17/15

Chain of Custody Signed By: [signature]

Equip Blank 1120

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper	Event:	~~June 2014~~ July 2015 Groundwater Sampling
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Well ID:	MDW-12
Sampling Personnel:	Barrett McMullan, ~~Mathew Eckman~~ Amalia Kassay	Date:	7/15/15
Job Number:	5E0809329P	Time In:	1230
Weather:	90°, cloudy, sunny	Time Out:	

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		9.99	
Total Depth	(feet)		18.00	
Screened Interval	(feet)			
Pump Intake ~	(feet)			

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐

Well Locked: Yes ☑ No ☐

Measuring Point Marked: Yes ☑ No ☐

Well Diameter: 1" ☐ 2" ☐ Other: 4"

WELL WATER INFORMATION

Length of Water Column:	(feet)	8.01
Volume of Water in Well:	(gal)	5.23
Pumping Rate of Pump:	(mL/min)	1.00 gpm
PumpStart:	Pump Stop:	
Minutes of Pumping:		
Total Volume Removed:	0 (ml)	12.50

Conversion Factors

gallons per feet	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
		☐
		☐
		☐

Other: _____

Sample ID: DW-12

Sample Time: 1240

MS/MSD: Yes ☐ No ☑

Duplicate: Yes ☐ No ☑

Duplicate ID: —

Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☐	Other Pump ☑ ESP
Tubing Used:	Teflon ☐	Polyethylene ☑		
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☐	Other Pump ☑ ESP

Did well go dry? Yes ☑ No ☐ Water Quality Meter Type: Horiba U-22 #1 9829

Time / Parameter	1 1222	2 1228	3 Final	4	5	6	7	8	9
Rate (ml/min)	1.00 gpm	1.00 gpm	1.00 gpm	12.50					
Depth to Water (ft. TOC)	9.99	9.99	9.99						
Temperature (°C)	23.25	19.58	19.71						
pH	7.05	7.07	6.65						
Conductance (mS/cm)	374	398	407						
Dissolved Oxygen mg/L)	2.47	2.68	2.99						
Turbidity (NTU)	0.3	1.6	16.6						
ORP (mV)	-125	-161.4	-154.2						

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Solenist

Decontamination Fluids Used: Alconox

Ambient Air (ppm): — Well Mouth (ppm): —

Sample Observations: —

MISCELLANEOUS OBSERVATIONS/PROBLEMS

—

SAMPLE DESTINATION

Laboratory: Pace Analytical

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other _____

Sample was ☐ shipped day of sampling ☑ picked up on 7/17/15

Chain of Custody Signed By: Amalia Kassay

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper	Event:	July 2015 ~~June 2014~~ Groundwater Sampling
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Well ID:	MW-13
Sampling Personnel:	~~Barrett McMullan, Matthew Eckmair~~ Amanda Kassay	Date:	7/16/15
Job Number:	5E0809329P		
Weather:	80°F, Sunny	Time In:	1148 Time Out: 1265

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		5.71	
Total Depth	(feet)		20.00	
Screened Interval	(feet)			
Pump Intake ~	(feet)			

check where appropriate

Well Type:	Flushmount	☑	Stick-Up	☐
Well Locked:	Yes	☑	No	☐
Measuring Point Marked:	Yes	☑	No	☐
Well Diameter:	1" ☐	2" ☑	Other:	

WELL WATER INFORMATION

Length of Water Column:	(feet)	14.29
Volume of Water in Well:	(gal)	2.33
Pumping Rate of Pump:	(mL/min)	—
PumpStart: —	Pump Stop:	—
Minutes of Pumping:		—
Total Volume Removed: 0	(ml)	—

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 mL = 0.1337 cubic ft

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: MW-13
Sample Time: 1155
MS/MSD: Yes ☐ No ☑
Duplicate: Yes ☐ No ☑
Duplicate ID: —
Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method:	Bailer ☑	Peristaltic ☐	Bladder ☐	Other Pump ☐
Tubing Used:	Teflon ☑	Polyethylene ☐		
Sampling Method:	Bailer ☑	Peristaltic ☐	Bladder ☐	Other Pump ☐

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: ~~Horiba U-22~~ HI 9829

Time / Parameter	1	2	3	4	5	6	7	8	9
	1148	1152	1155						
Rate (ml/min)									
Depth to Water (ft. TOC)									
Temperature (°C)	24.27	23.74	23.54						
pH	5.11	5.14	5.12						
Conductance (mS/cm)	47	46	46						
Dissolved Oxygen mg/L)	3.22	3.55	3.45						
Turbidity (NTU)	56.6	88.5	95.0						
ORP (mV)	132.1	144.1	146.6						

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Solonist

Decontamination Fluids Used: Alconox

Ambient Air (ppm): — Well Mouth (ppm): —

Sample Observations: —

MISCELLANEOUS OBSERVATIONS/PROBLEMS —

SAMPLE DESTINATION

Laboratory: Pace Analytical

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other

Sample was ☐ shipped day of sampling ☑ picked up on 7/17/15

Chain of Custody Signed By: Amanda Kassay

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper	Event:	July 2015 ~~June 2014~~ Groundwater Sampling
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Well ID:	MW-14
Sampling Personnel:	Barrett McMullan, ~~Matthew Eckmair~~ Annie Kassouf	Date:	7/15/15
Job Number:	5E0809329P	Time In:	1632 Time Out:
Weather:	90° storm clouds, cloudy		

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		13.21	
Total Depth	(feet)		20.00	
Screened Interval	(feet)		—	
Pump Intake ~	(feet)		—	

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐

Well Locked: Yes ☑ No ☐

Measuring Point Marked: Yes ☑ No ☐

Well Diameter: 1" ☐ 2" ☑ Other: ___

WELL WATER INFORMATION

Length of Water Column:	(feet)	6.79
Volume of Water in Well:	(gal)	1.11
Pumping Rate of Pump:	(mL/min)	—
PumpStart:	Pump Stop:	/
Minutes of Pumping:		
Total Volume Removed:	0 (ml)	3.4 gal

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: MW-14

Sample Time: 1645

MS/MSD: Yes ☐ No ☑

Duplicate: Yes ☐ No ☑

Duplicate ID: —

Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method: Bailer ☑ Peristaltic ☐ Bladder ☐ Other Pump ☐ ___

Tubing Used: Teflon ☑ Polyethylene ☐

Sampling Method: Bailer ☑ Peristaltic ☐ Bladder ☐ Other Pump ☐ ___

Did well go dry? Yes ☑ No ☐ Water Quality Meter Type: Horiba U-22 HI-9829

Time / Parameter	1	2	3 (Final)	4	5	6	7	8	9
	1835	1838	1645						
Rate (ml/min)	—	—	—						
Depth to Water (ft. TOC)	13.21	→							
Temperature (°C)	22.40	19.10	19.09						
pH	6.74	6.76	6.74						
Conductance (mS/cm)	592 ~~556~~	647	670						
Dissolved Oxygen mg/L)	3.70	3.85	3.67						
Turbidity (NTU)	12.6	14.6	188						
ORP (mV)	-169.7	-160.6	-158.7						

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Solenist

Decontamination Fluids Used: Alconox

Ambient Air (ppm): / Well Mouth (ppm): /

Sample Observations: /

MISCELLANEOUS OBSERVATIONS/PROBLEMS

/

SAMPLE DESTINATION

Laboratory: Pace Analytical Sample was ☐ shipped day of sampling ☑ picked up on 7/17/15 Chain of Custody Signed By: [signature]

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other ___

ANTEA GROUP

GROUNDWATER SAMPLING LOG

Client/Project	International Paper		July 2015
Site Location:	Charlotte Box Plant, 5419 Hovis Road, Charlotte, NC	Event:	~~June 2014~~ Groundwater Sampling
Sampling Personnel:	Barrett McMullan, ~~Matthew Eckman~~ Amanda Kassary	Well ID:	MW-15
Job Number:	5E0809329P	Date:	7/16/15
Weather:	80°F, Sunny	Time In:	0845
		Time Out:	—

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		24.29	
Total Depth	(feet)		28.30	
Screened Interval	(feet)			
Pump Intake ~	(feet)			

check where appropriate

Well Type:	Flushmount	☑	Stick-Up	☐
Well Locked:	Yes	☑	No	☐
Measuring Point Marked:	Yes	☑	No	☐
Well Diameter:	1" ☐	2" ☑	Other:	

WELL WATER INFORMATION

Length of Water Column:	(feet)	4.01
Volume of Water in Well:	(gal)	0.65
Pumping Rate of Pump:	(mL/min)	—
PumpStart: —	Pump Stop: —	
Minutes of Pumping:		
Total Volume Removed:	0 (ml)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analytes:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: MW-15
Sample Time: 0855
MS/MSD: Yes ☐ No ☑
Duplicate: Yes ☐ No ☑
Duplicate ID: —
Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method:	Bailer ☑	Peristaltic ☐	Bladder ☐	Other Pump ☐
Tubing Used:	Teflon ☑	Polyethylene ☐		
Sampling Method:	Bailer ☑	Peristaltic ☐	Bladder ☐	Other Pump ☐

Did well go dry? Yes ☑ No ☐ Water Quality Meter Type: Horiba U-22 HI 9829

Time / Parameter	1	2	3	4	5	6	7	8	9
	0852	final 0855	~~0855~~						
Rate (ml/min)	—	—	—						
Depth to Water (ft. TOC)	—	—	—						
Temperature (°C)	19.66	19.51	DUPLICATE						
pH	6.56	6.62							
Conductance (mS/cm)	908	849							
Dissolved Oxygen mg/L)	3.46	2.81							
Turbidity (NTU)	20.4	26.3							
ORP (mV)	-245.6	-202.6							

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Solenist

Decontamination Fluids Used: Alconox

Ambient Air (ppm): — Well Mouth (ppm): —

Sample Observations: —

MISCELLANEOUS OBSERVATIONS/PROBLEMS

—

SAMPLE DESTINATION

Laboratory: Pace Analytical

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other

Sample was ☐ shipped day of sampling ☑ picked up on 7/17/15

Chain of Custody Signed By: Amanda Kassary

Appendix E

Historical Groundwater Analytical Data

APPENDIX E
HISTORICAL GROUNDWATER ANALYTICAL DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

		1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,4-Dioxane	Acetone	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	Methyl Ethyl Ketone	Methylene Chloride	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylenes, Total
SAMPLE ID	DATE	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
2L Standard		**200**	**6**	**350 [1]**	**0.4**	**3**	**6000**	**400**	**400**	**3000**	**70**	**70**	**4000**	**5**	**0.7**	**600**	**3**	**0.03**	**500**
DW-01	8/10/1993	<5	<5	<5	<5	---	224	---	---	<10	<5	---	<10	<5	<5	<5	<5	<10	<5
DW-01	5/18/1998	0.2	<1	<1	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
DW-01	1/7/1999	0.4	<1	0.2	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
DW-01	5/6/1999	0.4	<1	0.2	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
DW-01	11/9/1999	0.5	0.2	0.3	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
DW-01	5/18/2000	0.7	0.2	0.5	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
DW-01	11/29/2000	0.7	0.2	0.4	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
DW-01	5/9/2001	0.5	<1	0.6	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
DW-01	5/15/2002	0.4	<0.5	0.5	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-01	10/3/2002	0.4	<0.5	0.4	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-01	5/1/2003	0.4	0.4	0.6	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-01	10/14/2003	0.4	0.4	0.8	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-01	4/7/2004	0.4	0.4	0.3	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-01	10/12/2004	0.6	0.6	1	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-01	6/6/2005	0.5	0.7	2	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-01	10/12/2005	0.6	0.7	2	<0.5	<5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-01	4/18/2006	0.5	0.7	2	<0.5	<5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-01	10/31/2006	0.6	0.8	2	---	<5	<5.0	---	---	<0.5	---	---	---	---	--	---	<0.5	<0.5	---
DW-01	5/3/2007	0.5	0.8	2	<0.5	---	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-01	10/30/2007	1.4	<1.0	3.1	<1.0	---	<25.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	---
DW-01	4/24/2008	0.4	0.8	2	<0.5	---	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-01	10/9/2008	<1.0	<1.0	2	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-01	10/13/2009	<1.0	1.1	2.2	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-01	7/13/2010	<1.0	<1.0	2	<1.0	---	<25	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-01	7/14/2011	<1.0	<1.0	1.8	<1.0	---	<25	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-01	7/16/2012	<1.0	<1.0	1.4	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-01	7/16/2013	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-01	6/24/2014	<1.0	<1.0	1.2	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-01	7/15/2015	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-02	8/10/1993	**315**	<25	<25	<25	---	<50	---	---	<50	<25	---	<50	<25	<25	<25	<25	<50	<25
DW-02	11/29/1993	108	**6**	11	<5	---	<10	---	---	<10	<5	---	<10	<5	<5	<5	<5	<10	<5
DW-02	5/31/1994	**207**	**13**	31	<5	---	<10	---	---	<10	<5	---	<10	<5	<5	<5	<5	<10	<5
DW-02	8/18/1994	**280**	<25	40	<25	---	<50	---	---	<50	<25	---	<50	<25	<25	<25	<25	<50	<25
DW-02	11/1/1994	184	**11**	28	<5	---	<10	---	---	<10	<5	---	<10	<5	<5	<5	<5	<10	<5
DW-02	2/7/1995	**246**	**24**	56	<10	---	<20	---	---	<20	<10	---	<20	<10	<10	<10	<10	<20	<10
DW-02	5/23/1995	**250**	**35**	80	<25	---	<50	---	---	<50	<25	---	<50	<25	<25	<25	<25	<50	<25
DW-02	11/9/1995	**560**	**50**	110	<20	---	<100	---	---	<50	<20	---	<100	<25	<30	<50	<20	<10	<20
DW-02	2/16/1996	190	**28**	58	<4	---	<20	---	---	<10	<4	---	<20	<5.0	<6	<10	<4	<2	<4
DW-02	4/8/2004	8	**14**	35	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	0.2	<0.5	---

APPENDIX E
HISTORICAL GROUNDWATER ANALYTICAL DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

SAMPLE ID	DATE	1,1,1-Trichloroethane (µg/L)	1,1-Dichloroethane (µg/L)	1,1-Dichloroethene (µg/L)	1,2-Dichloroethane (µg/L)	1,4-Dioxane (µg/L)	Acetone (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	Chloroethane (µg/L)	Chloroform (µg/L)	cis-1,2-Dichloroethene (µg/L)	Methyl Ethyl Ketone (µg/L)	Methylene Chloride (µg/L)	Tetrachloroethene (µg/L)	Toluene (µg/L)	Trichloroethene (µg/L)	Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)
DW-02	10/12/2004	7	**14**	35	<0.5	2	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-02	6/6/2005	6	**13**	42	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	0.4	<0.5	---
DW-02	2/23/2006	<3.4	**10**	29	---	---	---	---	---	---	---	---	---	---	---	----	<2.6	---	---
DW-02	4/18/2006	0.5	**8**	24	<0.5	<5	6	<0.5	<0.5	1	<0.5	<0.5	4	0.5	<0.5	<0.5	0.3	<0.5	---
DW-02	5/12/2006	0.7	**8**	20	<0.5	---	5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	0.5	<0.5	<0.5	0.3	<0.5	---
DW-02	10/31/2006	0.5	**6**	24	---	<5	<5.0	---	---	3	---	---	---	---	---	---	0.3	**0.6**	---
DW-02	5/4/2007	0.4	**6**	27	<0.5	---	44	<0.5	<0.5	2	<0.5	<0.5	<2	0.4	<0.5	0.4	0.3	**0.7**	---
DW-02	10/23/2007	<1.0	**7.4**	44.8	<1.0	---	<25.0	<1.0	<1.0	3.5	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	---
DW-02	4/24/2008	0.2	**10**	44	<0.5	---	<5	<0.5	<0.5	1	<0.5	<0.5	<2	0.3	<0.5	0.2	0.3	**0.8**	---
DW-02	10/8/2008	<1.0	**11.7**	44.9	<1.0	---	<25.0	---	---	1.1	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-02	10/13/2009	<1.0	**10.2**	46.1	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	**1.3**	<2.0
DW-02	7/13/2010	<1.0	**8.7**	56.9	<1.0	---	<25.0	---	---	1.8	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	**2.2**	<2.0
DW-02	7/14/2011	<1.0	5.8	34.1	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-02	7/17/2012	<1.0	1.7	16.9	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-02	7/15/2013	<1.0	<1.0	17.4	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-02	6/24/2014	<1.0	<1.0	17.1	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-02	7/16/2015	<1.0	<1.0	11.3	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-03	8/10/1993	<5	<5	<5	<5	---	115	---	---	<10	15	---	<10	<5	<5	<5	<5	<10	<5
DW-03	8/18/1994	<5	<5	<5	<5	---	160	---	---	<10	<5	---	<10	<5	<5	<5	<5	<10	<5
DW-03	7/14/2010	<1.0	<1.0	<1.0	<1.0	---	391	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-03	7/16/2012	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-03	7/15/2013	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-03	6/25/2014	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-03	7/16/2015	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-04	5/23/1995	53	**7**	12	<5	---	<10	---	---	<10	<5	---	<10	<5	<5	<5	<5	<10	<5
DW-04	11/9/1995	33	5	8	<2	---	<10	---	---	<5	<2	---	<10	<2.5	<3	<5	<2	<1	<2
DW-04	2/16/1996	34	5	8	<2	---	<10	---	---	<5	<2	---	<10	<2.5	<3	<5	<2	<1	<2
DW-04	5/8/1996	29	4	8	<2	---	<10	<1	<10	<5	<2	<3	---	<2.5	<3	<5	<2	<1	---
DW-04	11/14/1996	34	<2	13	<2	---	<10	---	---	<5	<2	---	<10	<2.5	<3	<5	<2	<1	<2
DW-04	5/15/1997	6.6	1.3	1.6	<1	---	<50	<1	<1	<1	<1	<1	---	<4	<1	<1	<1	<1	---
DW-04	11/18/1997	16	4	9	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
DW-04	5/18/1998	4	1	3	<1	---	<5	<1	<1	<1	0.2	<1	<5	<1	<1	<1	<1	<1	<5
DW-04	1/7/1999	10	3	7	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
DW-04	5/6/1999	6	2	5	<1	---	<5	<1	<1	<1	0.2	<1	<5	<1	<1	<1	<1	<1	<5
DW-04	11/10/1999	17	**7**	15	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
DW-04	5/19/2000	16	**7**	18	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
DW-04	11/28/2000	14	**7**	17	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
DW-04	5/9/2001	13	**8**	22	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
DW-04	10/25/2001	9	**6**	15	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
DW-04	5/15/2002	7	5	14	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-04	10/2/2002	7	**6**	12	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-04	4/30/2003	4	4	9	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-04	10/14/2003	3	4	8	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-04	4/8/2004	2	3	6	<0.5	---	5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-04	10/12/2004	7	**8**	22	<0.5	**3**	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-04	6/6/2005	5	**6**	27	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-04	10/12/2005	1	2	9	<0.5	<5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-04	2/22/2006	<3.4	<2.6	8.4	---	---	---	---	---	---	---	---	---	---	---	---	<2.6	---	---
DW-04	4/21/2006	0.5	2	5	<0.5	<5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-04	5/12/2006	0.6	2	5	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-04	10/31/2006	0.5	2	5	---	<5	<5.0	---	---	<0.5	---	---	---	---	---	---	<0.5	<0.5	---

APPENDIX E
HISTORICAL GROUNDWATER ANALYTICAL DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

SAMPLE ID	DATE	1,1,1-Trichloroethane (µg/L)	1,1-Dichloroethane (µg/L)	1,1-Dichloroethene (µg/L)	1,2-Dichloroethane (µg/L)	1,4-Dioxane (µg/L)	Acetone (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	Chloroethane (µg/L)	Chloroform (µg/L)	cis-1,2-Dichloroethene (µg/L)	Methyl Ethyl Ketone (µg/L)	Methylene Chloride (µg/L)	Tetrachloroethene (µg/L)	Toluene (µg/L)	Trichloroethene (µg/L)	Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)
DW-04	5/4/2007	0.3	1	4	<0.5	---	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-04	10/23/2007	<1.0	1.7	6.2	<1.0	---	<25.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	---
DW-04	4/24/2008	0.2	1	6	<0.5	---	<5	<0.5	<0.5	<0.5	<0.5	0.2	<2	<0.5	<0.5	<0.5	0.2	<0.5	---
DW-04	10/8/2008	<1.0	1.5	4.6	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-04	10/13/2009	<1.0	1.9	6.2	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-04	7/13/2010	<1.0	1.2	4.7	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-04	7/14/2011	<1.0	3.4	17.8	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-04	7/17/2012	<1.0	<1.0	12.7	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-04	7/16/2013	<1.0	<1.0	6.2	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-04	6/24/2014	<1.0	<1.0	5.2	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-04	7/15/2015	<1.0	<1.0	5.6	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
DW-05	5/6/1999	2	0.8	2	---	---	<5	---	---	<1	---	---	---	---	---	---	---	<1	---
DW-05	6/21/1999	2	0.8	2	---	---	<5	---	---	<1	---	---	---	---	---	---	---	<1	---
DW-05	7/15/1999	2	0.8	2	---	---	<5	---	---	<1	---	---	---	---	---	---	---	<1	---
DW-05	11/10/1999	4	1	3	---	---	<5	---	---	<1	---	---	---	---	---	---	---	<1	---
DW-05	5/19/2000	10	3	9	---	---	<5	---	---	<1	---	---	---	---	---	---	---	<1	---
DW-05	11/29/2000	4	2	4	---	---	<5	---	---	<1	---	---	---	---	---	---	---	<1	---
DW-05	5/9/2001	7	3	10	---	---	<5	---	---	<1	---	---	---	---	---	---	---	<1	---
DW-05	10/25/2001	2	1	3	---	---	<5	---	---	<1	---	---	---	---	---	---	---	<1	---
DW-05	5/15/2002	3	1	5	---	---	<5	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
DW-05	10/3/2002	4	2	5	---	---	<5	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
DW-05	5/1/2003	3	2	6	---	---	<5	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
DW-05	10/14/2003	2	2	5	---	---	<5	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
DW-05	4/7/2004	2	1	4	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
DW-05	10/13/2004	2	1	3	---	---	<2	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
DW-05	6/7/2005	4	4	17	---	---	<5	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
DW-05	10/11/2005	2	2	9	---	---	<5	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
DW-05	4/20/2006	<0.5	1	4	---	---	<2	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
DW-05	5/11/2006	1	1	4	---	---	<5	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
DW-05	11/2/2006	1	1	5	---	---	<5.0	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
DW-05	5/4/2007	0.9	1	4	---	---	5	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
DW-05	10/25/2007	2.1	2.3	10.0	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
DW-05	4/23/2008	1	2	6	---	---	<2	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
DW-05	10/8/2008	1.3	1.9	7.3	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
DW-05	10/13/2009	1.2	1.9	8.9	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
DW-05	7/14/2010	<1.0	1	5.1	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
DW-05	7/13/2011	<1.0	1.4	3.5	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
DW-05	7/16/2012	<1.0	2.1	10.5	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
DW-05	7/16/2013	<1.0	1.5	9.3	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
DW-05	6/24/2014	<1.0	1.2	6.4	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
DW-05	7/15/2015	<1.0	1.4	7.0	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
MW-01	8/10/1993	**6700**	**350**	<250	<250	---	<500	---	---	<500	<250	---	<500	<250	<250	<250	<250	<500	<250
MW-01	5/31/1994	**39000**	<1250	**4000**	<1250	---	<2500	---	---	<2500	<1250	---	---	<1250	<1250	<1250	<1250	<2500	<1250
MW-01	8/18/1994	**20200**	<1000	**1600**	<1000	---	<2000	---	---	<2000	<1000	---	<2000	<1000	<1000	<1000	<1000	<2000	<1000
MW-01	2/7/1995	**8100**	**1050**	**1550**	<250	---	<500	---	---	<500	<250	---	<500	<250	<250	<250	<250	<500	<250
MW-01	5/23/1995	**13900**	<500	**2600**	<500	---	<1000	---	---	<1000	<500	---	<1000	<500	<500	<500	<500	<1000	<500
MW-01	11/9/1995	**8600**	**200**	**1700**	<200	---	<1000	---	---	<500	<200	---	<1000	<250	<300	<500	<200	<100	<200
MW-01	2/16/1996	**11000**	**203**	**2900**	<2	---	<10	---	---	34	<2	---	<10	**6**	<3	<5	2	<1	<2
MW-01	11/14/1996	**5550**	**64**	**1600**	**3**	---	<10	---	---	10	<2	---	<10	<2.5	<3	<5	<2	<1	<2
MW-01	5/18/1998	**930**	**34**	**430**	<25	---	<120	<25	<25	<25	<25	<25	<120	<25	<25	<25	<25	<25	<120

APPENDIX E
HISTORICAL GROUNDWATER ANALYTICAL DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

SAMPLE ID	DATE	1,1,1-Trichloroethane (µg/L)	1,1-Dichloroethane (µg/L)	1,1-Dichloroethene (µg/L)	1,2-Dichloroethane (µg/L)	1,4-Dioxane (µg/L)	Acetone (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	Chloroethane (µg/L)	Chloroform (µg/L)	cis-1,2-Dichloroethene (µg/L)	Methyl Ethyl Ketone (µg/L)	Methylene Chloride (µg/L)	Tetrachloroethene (µg/L)	Toluene (µg/L)	Trichloroethene (µg/L)	Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)
MW-01	1/7/1999	**590**	**14**	310	<25	---	<120	<25	<25	<25	<25	<25	<120	<25	<25	<25	<25	<25	<120
MW-01	5/6/1999	96	**15**	70	<25	---	<120	<25	<25	<25	<25	<25	<120	<25	<25	<25	<25	<25	<120
MW-01	6/21/1999	**290**	**15**	200	<25	---	<120	<25	<25	<25	<25	<25	<120	<25	<25	<25	<25	<25	<120
MW-01	7/15/1999	**200**	**15**	120	<5.0	---	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<25
MW-01	11/10/1999	**280**	**16**	180	<10	---	<50	<10	<10	<10	<10	<10	<50	<10	<10	12	<10	<10	<50
MW-01	5/18/2000	130	**12**	120	<5.0	---	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<25
MW-01	11/28/2000	**340**	**11**	330	<5	---	<25	<5	<5	<5	<5	<5	<25	<5	<5	<5	<5	<5	<25
MW-01	5/8/2001	**800**	**10**	**1100**	**1**	---	5	<1	<1	<1	<1	<1	<5	<1	<1	<1	0.4	<1	<5
MW-01	10/24/2001	**1200**	**10**	**1500**	**2**	---	<5	<1	<1	<1	<1	<1	<5	<1	0.4	2	0.6	<1	<5
MW-01	5/15/2002	**240**	**6**	**380**	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	0.5	<0.5	---
MW-01	10/2/2002	**360**	**8**	**510**	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	0.5	<0.5	---
MW-01	4/30/2003	30	1	64	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	1	<0.5	---
MW-01	10/14/2003	32	2	66	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	1	<0.5	---
MW-01	4/8/2004	46	1	120	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	1	<0.5	---
MW-01	10/12/2004	8	1	31	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	0.8	<0.5	---
MW-01	10/12/2004	9	1	32	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	0.8	<0.5	----
MW-01	6/6/2005	32	0.8	150	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	1	<0.5	---
MW-01	10/12/2005	15	**37**	230	<0.5	<5	290	<0.5	<0.5	2	<0.5	<0.5	24	0.8	<0.5	0.7	0.6	<0.5	---
MW-01	2/23/2006	<3.4	<2.6	130	---	---	---	---	---	---	---	---	---	---	---	---	<2.6	---	---
MW-01	4/21/2006	0.3	2	150	<0.5	<5	16	<0.5	<0.5	14	<0.5	0.3	<5.0	<0.5	<0.5	4	0.3	**2**	---
MW-01	5/12/2006	<0.5	0.7	190	<0.5	---	14	<0.5	<0.5	22	<0.5	0.3	<5.0	<0.5	<0.5	4	0.2	**4**	---
MW-01	10/31/2006	0.6	4	76	---	<5	<5.0	---	---	3	---	---	---	---	---	---	<0.5	**2**	---
MW-01	5/4/2007	0.7	5	74	<0.5	---	12	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	0.4	**0.4**	---
MW-01	10/23/2007	<1.0	**10.2**	138	<1.0	---	<25.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	---
MW-01	4/24/2008	1	7	120	<0.5	---	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	0.2	**0.3**	---
MW-01	10/8/2008	<1.0	**7.4**	117	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-01	10/13/2009	<1.0	5.2	92.2	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-01	7/13/2010	<1.0	2.2	47.4	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-01	7/14/2011	<1.0	<1.0	3.7	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-01	7/17/2012	<1.0	1.2	24.6	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-01	7/15/2013	<1.0	3.3	103	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-01	6/24/2014	<1.0	2.4	96.8	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-01	7/16/2015	<1.0	1.3	63.3	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-02	8/10/1993	**12500**	<250	**500**	<250	---	<500	---	---	<500	<250	---	<500	<250	<250	<250	<250	<500	<250
MW-02	11/29/1993	**3060**	**140**	140	<100	---	<200	---	---	<200	<100	---	<200	<100	<100	<100	<100	<200	<100
MW-02	5/31/1994	**945**	**85**	140	<30	---	<50	---	---	55	<30	---	<50	<30	<30	<30	<25	<50	<30
MW-02	8/18/1994	**425**	**80**	<25	<25	---	<50	---	---	<50	<25	---	<50	<25	<25	<25	<25	<50	<25
MW-02	11/1/1994	**550**	**230**	100	<25	---	<50	---	---	<50	<25	---	<50	<25	<25	<25	<25	<50	<25
MW-02	2/7/1995	**605**	**200**	90	<25	---	<50	---	---	<50	<25	---	<50	<25	<25	<25	<25	<50	<25
MW-02	7/13/2010	<1.0	1.5	34.2	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-02	7/17/2012	<1.0	1.5	43.6	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-02	7/15/2013	<1.0	<1.0	17.3	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-02	6/24/2014	<1.0	<1.0	15.4	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-02	7/16/2015	<1.0	<1.0	48.2	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-02B	5/23/1995	<10	**34**	14	<10	---	<20	---	---	280	<10	---	<20	<10	<10	<10	<10	<20	<10
MW-02B	11/9/1995	<3	**35**	13	<2	---	<10	---	---	256	<2	---	<10	<2.5	<3	<5	<2	**11**	<2
MW-02B	2/16/1996	<6	**46**	20	<4	---	<20	---	---	310	<4	---	<20	<5.0	<6	<10	<4	**22**	<4
MW-02B	7/13/2010	<1.0	<1.0	1.9	<1.0	---	<25.0	---	---	3.1	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	**11**	<2.0
MW-02B	7/14/2011	<1.0	<1.0	1.9	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	**7**	<2.0

APPENDIX E
HISTORICAL GROUNDWATER ANALYTICAL DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

SAMPLE ID	DATE	1,1,1-Trichloroethane (µg/L)	1,1-Dichloroethane (µg/L)	1,1-Dichloroethene (µg/L)	1,2-Dichloroethane (µg/L)	1,4-Dioxane (µg/L)	Acetone (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	Chloroethane (µg/L)	Chloroform (µg/L)	cis-1,2-Dichloroethene (µg/L)	Methyl Ethyl Ketone (µg/L)	Methylene Chloride (µg/L)	Tetrachloroethene (µg/L)	Toluene (µg/L)	Trichloroethene (µg/L)	Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)
MW-02BR	7/15/2013	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	5.4	<1.0	<1.0	<2.0
MW-02BR	6/25/2014	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	5.4	<1.0	**2.0**	<2.0
MW-02BR	7/15/2015	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	**1.7**	<2.0
MW-03	7/13/2010	<1.0	<1.0	<1.0	<1.0	---	<25	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-03	7/17/2012	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-03	7/16/2013	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-03	6/25/2014	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-03	7/16/2015	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-04	8/18/1994	<5	<5	<5	<5	---	36	---	---	<10	<5	---	<10	<5	<5	<5	<5	<10	<5
MW-04	5/6/1999	<1	<1	<1	<1	---	6	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-04	11/10/1999	<1	<1	<1	<1	---	7	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-04	5/18/2000	<1	<1	<1	<1	---	12	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-04	11/29/2000	<1	<1	<1	<1	---	<5	2	0.8	<1	<1	<1	<5	<1	<1	0.4	<1	<1	0.8
MW-04	5/8/2001	<1	<1	<1	<1	---	10	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-04	4/30/2003	<0.5	<0.5	<0.5	<0.5	---	10	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
MW-04	6/6/2005	<0.5	<0.5	<0.5	<0.5	---	5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
MW-04	10/12/2005	<0.5	<0.5	<0.5	<0.5	<5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	---	---	---	---	---
MW-04	4/18/2006	<0.5	<0.5	<0.5	<0.5	<5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	---	---	---	---	---
MW-04	10/31/2006	<0.5	<0.5	<0.5	---	<5	<5.0	---	---	<0.5	---	---	---	---	---	---	---	---	---
MW-04	4/24/2008	<0.5	<0.5	<0.5	<0.5	---	14	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	---
MW-04	7/13/2010	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-04	7/14/2011	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-04	7/16/2012	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-04	7/15/2013	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-04	6/24/2014	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-04	7/15/2015	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-05	11/29/1993	96	<50	<50	<50	---	<100	---	---	<100	<50	---	<100	<50	<50	<50	<50	<100	<50
MW-05	5/31/1994	155	**23**	29	<5	---	<10	---	---	<10	<5	---	---	<5	<5	<5	<5	<10	<5
MW-05	8/18/1994	**430**	**50**	35	<25	---	<50	---	---	<50	<25	---	<50	<25	<25	<25	<25	<50	<25
MW-05	11/1/1994	**430**	**50**	75	<25	---	<50	---	---	<50	<25	---	<50	<25	<25	<25	<25	<50	<25
MW-05	2/7/1995	171	**46**	47	<5	---	<10	---	---	<10	<5	---	<10	<5	<5	<5	<5	<10	<5
MW-05	5/23/1995	43	**24**	19	<5	---	<10	---	---	<10	<5	---	<10	<5	<5	<5	<5	<10	<5
MW-05	11/9/1995	<3	4	<2	<2	---	<10	---	---	<5	<2	---	<10	<2.5	<3	<5	<2	<1	<2
MW-05	2/16/1996	<3	2	<2	<2	---	<10	---	---	<5	<2	---	<10	<2.5	<3	<5	<2	<1	<2
MW-05	5/8/1996	<3	3	<2	<2	---	<10	<1	<10	<5	<2	<3	---	<2.5	<3	<5	<2	<1	---
MW-05	11/14/1996	<3	4	<2	<2	---	<10	---	---	<5	<2	---	<10	<2.5	<3	<5	<2	<1	<2
MW-05	6/16/1997	<1	5.8	<1	<1	---	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-05	11/18/1997	<1	4	2	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-05	5/18/1998	<1	3	<1	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-05	1/7/1999	0.4	5	1	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-05	5/6/1999	<1	2	0.5	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-05	11/10/1999	0.2	5	1	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-05	5/18/2000	<1	3	0.8	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-05	11/29/2000	<1	3	0.6	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-05	5/8/2001	<1	3	0.7	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-05	10/24/2001	<1	3	2	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-05	5/15/2002	<0.5	2	<0.5	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	0.3	<0.5	---
MW-05	10/2/2002	<0.5	2	1	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	0.6	<0.5	---
MW-05	4/30/2003	<0.5	1	<0.5	<0.5	---	9	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	1	<0.5	---
MW-05	10/13/2003	<0.5	1	<0.5	<0.5	---	<5.0	<0.5	<0.5	<0.5	1	<0.5	<5.0	<0.5	<0.5	<0.5	2	<0.5	---
MW-05	4/7/2004	<0.5	0.8	<0.5	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	1	<0.5	---

APPENDIX E
HISTORICAL GROUNDWATER ANALYTICAL DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

SAMPLE ID	DATE	1,1,1-Trichloroethane (µg/L)	1,1-Dichloroethane (µg/L)	1,1-Dichloroethene (µg/L)	1,2-Dichloroethane (µg/L)	1,4-Dioxane (µg/L)	Acetone (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	Chloroethane (µg/L)	Chloroform (µg/L)	cis-1,2-Dichloroethene (µg/L)	Methyl Ethyl Ketone (µg/L)	Methylene Chloride (µg/L)	Tetrachloroethene (µg/L)	Toluene (µg/L)	Trichloroethene (µg/L)	Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)
MW-05	10/13/2004	<0.5	0.5	<0.5	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	0.3	<2	<0.5	<0.5	<0.5	3	<0.5	---
MW-05	6/6/2005	<0.5	1	<0.5	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	0.5	<0.5	---
MW-05	10/12/2005	<0.5	0.4	0.6	<0.5	<5	<5.0	<0.5	<0.5	<0.5	<0.5	0.4	<2.0	<0.5	<0.5	<0.5	2	<0.5	---
MW-05	4/18/2006	<0.5	<0.5	0.2	<0.5	<5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	2	<0.5	---
MW-05	10/31/2006	<0.5	<0.5	<0.5	---	<5	<5.0	---	---	<0.5	---	---	---	---	---	---	1	<0.5	---
MW-05	5/4/2007	<0.5	<0.5	<0.5	<0.5	---	6	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	---
MW-05	4/24/2008	<0.5	0.4	<0.5	<0.5	---	<5	<0.5	<0.5	<0.5	<0.5	0.2	<2	<0.5	<0.5	<0.5	0.2	<0.5	---
MW-05	7/13/2010	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-05	7/14/2011	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-05	7/17/2012	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-05	7/16/2013	<1.0	<1.0	<1.0	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
MW-05	6/25/2014	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-05	7/16/2015	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-06	8/10/1993	**4500**	**325**	**375**	<125	---	<250	---	---	<250	<125	---	<250	<125	<125	<125	<125	<250	<125
MW-06	11/29/1993	**1500**	**120**	130	<50	---	<100	---	---	<100	<50	---	<100	<50	<50	<50	<50	<100	<50
MW-06	5/31/1994	**6100**	**350**	**2250**	<250	---	<500	---	---	<500	<250	---	---	<250	<300	<300	<250	<500	<300
MW-06	8/18/1994	**7600**	<500	<500	<500	---	<1000	---	---	<1000	<500	---	<1000	<500	<500	<500	<500	<1000	<500
MW-06	11/1/1994	**5060**	**240**	**760**	<100	---	<200	---	---	<200	<100	---	<200	<100	<100	<100	<100	<200	<100
MW-06	2/7/1995	**4020**	**300**	**720**	<100	---	<200	---	---	<200	<100	---	<200	<100	<100	<100	<100	<200	<100
MW-06	5/23/1995	**4300**	**400**	**900**	<250	---	<500	---	---	<500	<250	---	<500	<250	<250	<250	<250	<500	<250
MW-06	11/9/1995	**340**	**100**	80	<20	---	<100	---	---	<50	<20	---	<100	<25	<30	<50	<20	<10	<20
MW-06	2/16/1996	**486**	**119**	140	<2	---	<10	---	---	15	<2	---	<10	<2.5	<3	<5	<2	<1	<2
MW-06	11/14/1996	22	**33**	12	<2	---	<10	---	---	<5	<2	---	<10	<2.5	<3	<5	<2	<1	<2
MW-06	11/18/1997	17	5	8	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-06	5/6/1999	10	3	8	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-06	6/21/1999	1	0.9	1	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-06	7/15/1999	2	1	2	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-06	11/10/1999	3	3	4	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-06	5/18/2000	1	2	3	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-06	11/28/2000	0.9	1	2	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-06	5/8/2001	1	2	4	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-06	10/24/2001	0.7	0.9	2	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-06	5/15/2002	1	1	4	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
MW-06	10/2/2002	0.3	0.7	1	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
MW-06	4/30/2003	2	2	7	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
MW-06	10/13/2003	0.5	2	5	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	0.3	<0.5	---
MW-06	4/8/2004	0.6	2	5	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	0.4	<0.5	---
MW-06	10/12/2004	0.4	2	6	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	1	<0.5	---
MW-06	1/12/2005	<0.5	1	9	<0.5	---	12	<0.5	<0.5	1	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	0.4	<0.5	---
MW-06	6/6/2005	<0.5	2	5	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
MW-06	10/12/2005	<0.5	1	9	<0.5	<5	12	<0.5	<0.5	1	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	0.4	<0.5	---
MW-06	2/23/2006	<3.4	<2.6	11	---	---	---	---	---	---	---	---	---	---	---	---	<2.6	---	---
MW-06	4/21/2006	<0.5	0.8	6	<0.5	<5	8	<0.5	<0.5	0.7	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	0.2	<0.5	---
MW-06	5/12/2006	<0.5	1	4	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
MW-06	11/1/2006	<0.5	0.5	<0.5	---	<5	<5.0	---	---	<0.5	---	---	---	---	---	---	<0.5	<0.5	---
MW-06	5/3/2007	<0.5	0.8	6	<0.5	---	22	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	---
MW-06	10/23/2007	<1.0	<1.0	3.4	<1.0	---	<25.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	---
MW-06	4/24/2008	<0.5	0.6	6	<0.5	---	8	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	---

APPENDIX E
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INTERNATIONAL PAPER BOX PLANT
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ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

SAMPLE ID	DATE	1,1,1-Trichloroethane (µg/L)	1,1-Dichloroethane (µg/L)	1,1-Dichloroethene (µg/L)	1,2-Dichloroethane (µg/L)	1,4-Dioxane (µg/L)	Acetone (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	Chloroethane (µg/L)	Chloroform (µg/L)	cis-1,2-Dichloroethene (µg/L)	Methyl Ethyl Ketone (µg/L)	Methylene Chloride (µg/L)	Tetrachloroethene (µg/L)	Toluene (µg/L)	Trichloroethene (µg/L)	Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)
MW-06	10/9/2008	<1.0	1.1	13.3	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-06	10/13/2009	<1.0	<1.0	4.5	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-06	7/13/2010	<1.0	<1.0	1.8	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-06	7/14/2011	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-06	7/17/2012	<1.0	<1.0	<1.0	<1.0	---	<25.1	---	---	<1.0	<1.0	<1.0	<5.1	<2.1	<1.0	<1.0	<1.0	<1.0	<2.1
MW-06	7/15/2013	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-06	6/24/2014	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-06	7/16/2015	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-07	8/10/1993	**405**	<25	35	<25	---	<50	---	---	<50	<25	---	<50	<25	<25	<25	<25	<50	<25
MW-07	11/29/1993	**465**	<25	50	<35	---	<50	---	---	<50	<25	---	<50	<25	<25	<25	<25	<50	<25
MW-07	5/31/1994	186	**12**	68	<10	---	<20	---	---	<20	<10	---	---	<10	<10	<10	<10	<20	<10
MW-07	8/18/1994	110	**21**	<5	<5	---	<10	---	---	<10	<5	---	<10	<5	<5	<5	<5	<10	<5
MW-07	11/1/1994	71	**10**	17	<5	---	<10	---	---	<10	<5	---	<10	<5	<5	<5	<5	<10	<5
MW-07	2/7/1995	30	**19**	5	<5	---	<10	---	---	<10	<5	---	<10	<5	<5	<5	<5	<10	<5
MW-07	5/23/1995	<50	<50	<50	<50	---	<100	---	---	<100	<50	---	550	<50	<50	<50	<50	<100	<50
MW-07	6/21/1995	<1	**10**	2	<1	---	<10	---	---	<5	<1	---	<10	<2.5	<1	<5	<1	<1	<1
MW-07	11/9/1995	<3	5	<2	<2	---	<10	---	---	<5	<2	---	<10	<2.5	<3	<5	<2	<1	<2
MW-07	2/16/1996	<3	**10**	<2	<2	---	<10	---	---	<5	<2	---	<10	<2.5	<3	<5	<2	<1	<2
MW-07	7/13/2010	<1.0	<1.0	2.5	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-07	7/17/2012	<1.0	<1.0	3.9	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-07	7/15/2013	<1.0	<1.0	4.4	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-07	6/25/2014	<1.0	<1.0	10.4	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-07	7/16/2015	<1.0	1.2	25.6	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-08	7/13/2010	<1.0	<1.0	<1.0	<1.0	---	<25.0	--	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-08	7/17/2012	<1.0	<1.0	<1.0	<1.0	---	<25.0	--	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-08	7/16/2013	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-08	6/25/2014	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-08	7/15/2015	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-09	7/13/2010	<1.0	<1.0	<1.0	<1.0	---	<25	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-09	7/16/2012	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-09	7/15/2013	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-09	6/25/2014	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-09	7/15/2015	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-10	6/10/1993	<5	<5	<5	<5	---	270	---	---	<10	<5	---	<10	<5	<5	<5	<5	<10	<5
MW-10	7/13/2010	<1.0	<1.0	<1.0	<1.0	---	<25	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-10	7/16/2012	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-10	7/15/2013	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	--	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-10	6/25/2014	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	--	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-10	7/16/2015	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	--	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-11	8/10/1993	**260**	**355**	95	<30	---	<50	---	---	<50	<30	---	<50	<30	<30	<30	<30	<50	<30
MW-11	11/29/1993	120	**250**	54	<10	---	<20	---	---	<20	<10	---	<20	<10	<10	<10	<10	<20	<10
MW-11	8/18/1994	72	**197**	36	<5	---	<10	---	---	16	<5	---	<10	<5	<5	<5	<5	<10	<5
MW-11	11/1/1994	55	**92**	25	<5	---	<10	---	---	12	<5	---	<10	<5	<5	<5	<5	<10	<5
MW-11	2/7/1995	32	**69**	17	<5	---	<10	---	---	16	<5	---	<10	<5	<5	<5	<5	<10	<5
MW-11	5/23/1995	12	**71**	17	<5	---	<10	---	---	10	<5	---	<10	<5	<5	<5	<5	<10	<5
MW-11	11/9/1995	<3	**35**	8	---	---	<10	---	---	8	---	---	---	---	---	---	---	<1	---
MW-11	2/16/1996	<3	**22**	4	---	---	<10	---	---	6	---	---	---	---	---	---	---	<1	---
MW-11	5/8/1996	<3	**12**	2	---	---	<10	---	---	<5	---	---	---	---	---	---	---	<1	---
MW-11	11/14/1996	<3	**8**	<2	---	---	<10	---	---	<5	---	---	---	---	---	---	---	<1	---
MW-11	5/15/1997	<1	**17**	2.9	---	---	<50	---	---	3.2	---	---	---	---	---	---	---	<1	---

APPENDIX E
HISTORICAL GROUNDWATER ANALYTICAL DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

SAMPLE ID	DATE	1,1,1-Trichloroethane (µg/L)	1,1-Dichloroethane (µg/L)	1,1-Dichloroethene (µg/L)	1,2-Dichloroethane (µg/L)	1,4-Dioxane (µg/L)	Acetone (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	Chloroethane (µg/L)	Chloroform (µg/L)	cis-1,2-Dichloroethene (µg/L)	Methyl Ethyl Ketone (µg/L)	Methylene Chloride (µg/L)	Tetrachloroethene (µg/L)	Toluene (µg/L)	Trichloroethene (µg/L)	Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)
MW-11	11/18/1997	<1	3	<1	---	---	<5	---	---	2	---	---	---	---	---	---	---	<1	---
MW-11	5/18/1998	<1	**6**	2	---	---	---	---	---	1	---	---	---	---	<1	---	---	0.2	---
MW-11	1/7/1999	<1	2	0.9	---	---	<5	---	---	0.7	---	---	---	---	---	---	---	<1	---
MW-11	5/6/1999	<1	4	1	---	---	<5	---	---	0.4	---	---	---	---	---	---	---	<1	---
MW-11	11/10/1999	1	5	2	---	---	<5	---	---	1	---	---	---	---	---	---	---	**0.3**	---
MW-11	5/19/2000	1	3	2	---	---	3	---	---	1	---	---	---	---	---	---	---	**0.4**	---
MW-11	11/30/2000	<1	2	3	---	---	<5	---	---	1	---	---	---	---	---	---	---	**0.6**	---
MW-11	5/8/2001	<1	5	7	---	---	4	---	---	2	---	---	---	---	---	---	---	**1**	---
MW-11	10/25/2001	<1	3	2	---	---	7	---	---	0.5	---	---	---	---	---	---	---	<1	---
MW-11	5/15/2002	<0.5	**6**	9	---	---	6	---	---	2	---	---	---	---	---	---	---	**1**	---
MW-11	10/2/2002	<0.5	**6**	6	---	---	4	---	---	1	---	---	---	---	---	---	---	**0.6**	---
MW-11	5/1/2003	<0.5	**9**	12	---	---	<5	---	---	2	---	---	---	---	---	---	---	**0.7**	---
MW-11	10/14/2003	<0.5	5	6	---	---	<5	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
MW-11	4/7/2004	<0.5	2	2	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	0.2	---
MW-11	10/13/2004	<0.5	1	1	---	---	<2	---	---	0.2	---	---	---	---	---	---	---	**0.3**	---
MW-11	6/7/2005	<0.5	1	1	---	---	<5	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
MW-11	10/11/2005	<0.5	0.6	0.5	---	---	<5	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
MW-11	4/20/2006	<0.5	<0.5	0.3	---	---	<2	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
MW-11	5/11/2006	<0.5	0.4	0.3	---	---	<5	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
MW-11	5/4/2007	<0.5	<0.5	<0.5	---	---	8	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
MW-11	4/23/2008	<0.5	0.3	0.2	---	---	5	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
MW-11	10/9/2008	<1.0	<1.0	1.3	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
MW-11	7/13/2010	<1.0	<1.0	<1.0	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
MW-11	7/13/2011	<1.0	<1.0	<1.0	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
MW-11	7/16/2012	<1.0	<1.0	<1.0	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
MW-11	7/16/2013	<1.0	<1.0	<1.0	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
MW-11	6/24/2014	<1.0	<1.0	<1.0	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
MW-11	7/15/2015	<1.0	<1.0	<1.0	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
MW-12	8/10/1993	110	**850**	**510**	<50	---	<100	---	---	<100	<50	---	<100	<50	<50	<50	<50	<100	<50
MW-12	11/29/1993	<50	**220**	340	<50	---	<100	---	---	<100	<50	---	<100	<50	<50	<50	<50	<100	<50
MW-12	8/18/1994	**200**	**675**	**1000**	<125	---	<250	---	---	**3350**	<125	---	<250	<125	<125	<125	<125	<250	<125
MW-12	11/1/1994	190	**850**	**600**	<30	---	<50	---	---	<50	<30	---	<50	<30	<30	<30	<30	<50	<30
MW-12	2/7/1995	**500**	**980**	**580**	<100	---	<200	---	---	<200	<100	---	<200	<100	<100	<100	<100	<200	<100
MW-12	5/23/1995	100	**1040**	**760**	<100	---	<200	---	---	1680	<100	---	<200	<100	<100	<100	<100	<200	<100
MW-12	11/9/1995	<3	**83**	115	---	---	<10	---	---	545	---	---	---	---	---	---	---	**10**	---
MW-12	2/16/1996	<3	**57**	47	---	---	<10	---	---	214	---	---	---	---	---	---	---	**8**	---
MW-12	5/8/1996	<3	**66**	137	---	---	<10	---	---	441	---	---	---	---	---	---	---	**13**	---
MW-12	11/14/1996	<3	**10**	23	---	---	<10	---	---	67	---	---	---	---	---	---	---	**5**	---
MW-12	5/15/1997	<1	**35**	61	---	---	<50	---	---	220	---	---	---	---	---	---	---	**19**	---
MW-12	11/18/1997	<5.0	<5.0	15	---	---	<25	---	---	81	---	---	---	---	---	---	---	**7**	---
MW-12	5/18/1998	<5	**13**	38	---	---	---	---	---	110	---	---	---	---	<5	---	---	**14**	---
MW-12	1/7/1999	0.8	**7**	15	---	---	<5	---	---	27	---	---	---	---	---	---	---	**4**	---
MW-12	5/6/1999	<1	**6**	19	---	---	8	---	---	50	---	---	---	---	---	---	---	**14**	---
MW-12	6/21/1999	<5.0	**24**	75	---	---	48	---	---	190	---	---	---	---	---	---	---	**44**	---
MW-12	7/15/1999	<5.0	**25**	75	---	---	<25	---	---	190	---	---	---	---	---	---	---	**39**	---
MW-12	11/10/1999	<5	**24**	72	---	---	74	---	---	160	---	---	---	---	---	---	---	**42**	---
MW-12	5/18/2000	<5	**11**	62	---	---	27	---	---	100	---	---	---	---	---	---	---	**32**	---
MW-12	11/30/2000	<5	5	51	---	---	<25	---	---	74	---	---	---	---	---	---	---	**28**	---
MW-12	5/8/2001	<1	4	53	---	---	15	---	---	57	---	---	---	---	---	---	---	**30**	---
MW-12	10/25/2001	<1	4	53	---	---	7	---	---	58	---	---	---	---	---	---	---	**28**	---
MW-12	5/15/2002	<0.5	2	31	---	---	21	---	---	41	---	---	---	---	---	---	---	**24**	---

APPENDIX E
HISTORICAL GROUNDWATER ANALYTICAL DATA
INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

SAMPLE ID	DATE	1,1,1-Trichloroethane (µg/L)	1,1-Dichloroethane (µg/L)	1,1-Dichloroethene (µg/L)	1,2-Dichloroethane (µg/L)	1,4-Dioxane (µg/L)	Acetone (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	Chloroethane (µg/L)	Chloroform (µg/L)	cis-1,2-Dichloroethene (µg/L)	Methyl Ethyl Ketone (µg/L)	Methylene Chloride (µg/L)	Tetrachloroethene (µg/L)	Toluene (µg/L)	Trichloroethene (µg/L)	Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)
MW-12	10/2/2002	<0.5	3	33	---	---	10	---	---	42	---	---	---	---	---	---	---	**31**	---
MW-12	5/1/2003	<0.5	1	19	---	---	6	---	---	23	---	---	---	---	---	---	---	**20**	---
MW-12	10/14/2003	<0.5	1	23	---	---	<5	---	---	18	---	---	---	---	---	---	---	**17**	---
MW-12	4/7/2004	<0.5	1	18	<0.5	---	6	<0.5	<0.5	17	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	**18**	---
MW-12	10/13/2004	<0.5	1	19	---	---	6	---	---	16	---	---	---	---	---	---	---	**22**	---
MW-12	6/7/2005	<0.5	0.9	17	---	---	5	---	---	13	---	---	---	---	---	---	---	**19**	---
MW-12	10/11/2005	<0.5	0.5	12	---	---	11	---	---	8	---	---	---	---	---	---	---	**13**	---
MW-12	4/20/2006	<0.5	0.8	12	---	---	35	---	---	8	---	---	---	---	---	---	---	**16**	---
MW-12	5/11/2006	<0.5	0.9	14	---	---	9	---	---	10	---	---	---	---	---	---	---	**17**	---
MW-12	11/2/2006	<0.5	0.8	14	---	---	<5.0	---	---	11	---	---	---	---	---	---	---	**29**	---
MW-12	5/4/2007	<0.5	0.7	11	---	---	14	---	---	6	---	---	---	---	---	---	---	**12**	---
MW-12	10/24/2007	<1.0	<1.0	16.9	---	---	<25.0	---	---	6.9	---	---	---	---	---	---	---	**20.2**	---
MW-12	4/23/2008	<0.5	0.7	10	---	---	30	---	---	5	---	---	---	---	---	---	---	**15**	---
MW-12	10/9/2008	<1.0	<1.0	16.1	---	---	<25.0	---	---	7.4	---	---	---	---	---	---	---	**21.1**	---
MW-12	10/13/2009	<1.0	1.1	16.4	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	**28.4**	---
MW-12	7/13/2010	<1.0	<1.0	7	---	---	<25.0	---	---	3	---	---	---	---	---	---	---	**13**	---
MW-12	7/14/2011	<1.0	<1.0	1	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	**2.4**	---
MW-12	7/16/2012	<1.0	<1.0	4.4	---	---	<25.0	---	---	1.9	---	---	---	---	---	---	---	**9.5**	---
MW-12	7/16/2013	<1.0	<1.0	1.7	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	**3.6**	---
MW-12	6/24/2014	<1.0	<1.0	3.3	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	**6.7**	---
MW-12	7/15/2015	<1.0	<1.0	2.9	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	**6.1**	---
MW-13	5/6/1999	<1	<1	<1	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	1	<1	<5
MW-13	11/10/1999	<1	<1	<1	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	0.7	<1	<5
MW-13	11/29/2000	<1	<1	<1	<1	---	<5	1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<5
MW-13	10/24/2001	<1	<1	<1	<1	---	<5	<1	<1	<1	<1	<1	<5	<1	<1	<1	7	<1	<5
MW-13	5/14/2002	<0.5	<0.5	<0.5	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	**3**	<0.5	---
MW-13	10/2/2002	<0.5	<0.5	<0.5	<0.5	---	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	**3**	<0.5	---
MW-13	4/30/2003	<0.5	<0.5	<0.5	<0.5	---	9	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	0.5	<0.5	---
MW-13	10/12/2005	<0.5	<0.5	<0.5	<0.5	<5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	---	---	---	---	---
MW-13	4/18/2006	<0.5	<0.5	<0.5	<0.5	<5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	---	---	---	---	---
MW-13	11/1/2006	<0.5	<0.5	<0.5	---	<5	<5.0	---	---	<0.5	---	---	---	---	---	---	---	---	---
MW-13	5/4/2007	<0.5	<0.5	<0.5	<0.5	---	11	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	---
MW-13	4/24/2008	<0.5	<0.5	<0.5	<0.5	---	12	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	---
MW-13	7/13/2010	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-13	7/14/2011	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-13	7/17/2012	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-13	7/16/2013	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-13	6/25/2014	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-13	7/16/2015	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-14	5/23/1995	<5	<5	<5	---	---	53	---	---	<10	---	---	---	---	---	---	---	<10	---
MW-14	1/7/1999	<1	<1	<1	---	---	14	---	---	<1	---	---	---	---	---	---	---	<1	---
MW-14	11/9/1999	<1	<1	<1	---	---	8	---	---	<1	---	---	---	---	---	---	---	<1	---
MW-14	5/18/2000	<1	<1	<1	---	---	5	---	---	<1	---	---	---	---	---	---	---	<1	---
MW-14	11/28/2000	<1	<1	<1	---	---	39	---	---	<1	---	---	---	---	---	---	---	<1	---
MW-14	5/8/2001	<1	<1	<1	---	---	6	---	---	<1	---	---	---	---	---	---	---	<1	---
MW-14	10/24/2001	<1	<1	<1	---	---	5	---	---	<1	---	---	---	---	---	---	---	<1	---
MW-14	5/14/2002	<0.5	<0.5	<0.5	---	---	8	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
MW-14	10/2/2002	<0.5	<0.5	<0.5	---	---	5	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
MW-14	4/30/2003	<0.5	<0.5	<0.5	---	---	4	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---

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INTERNATIONAL PAPER BOX PLANT
CHARLOTTE, NORTH CAROLINA
ANTEA USA OF NORTH CAROLINA PROJECT NO. 5E080-9329-P

SAMPLE ID	DATE	1,1,1-Trichloroethane (µg/L)	1,1-Dichloroethane (µg/L)	1,1-Dichloroethene (µg/L)	1,2-Dichloroethane (µg/L)	1,4-Dioxane (µg/L)	Acetone (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	Chloroethane (µg/L)	Chloroform (µg/L)	cis-1,2-Dichloroethene (µg/L)	Methyl Ethyl Ketone (µg/L)	Methylene Chloride (µg/L)	Tetrachloroethene (µg/L)	Toluene (µg/L)	Trichloroethene (µg/L)	Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)
MW-14	4/7/2004	<0.5	<0.5	<0.5	<0.5	---	9	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
MW-14	6/7/2005	<0.5	<0.5	<0.5	---	---	4	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
MW-14	5/11/2006	<0.5	<0.5	<0.5	---	---	17	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
MW-14	4/23/2008	<0.5	<0.5	<0.5	---	---	5	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
MW-14	7/14/2010	<1.0	<1.0	<1.0	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
MW-14	7/14/2011	<1.0	<1.0	<1.0	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
MW-14	7/16/2012	<1.0	<1.0	<1.0	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
MW-14	7/15/2013	<1.0	<1.0	<1.0	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
MW-14	6/24/2014	<1.0	<1.0	<1.0	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
MW-14	7/15/2015	<1.0	<1.0	<1.0	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
MW-15	6/21/1999	<1	<1	<1	---	---	4	---	---	<1	---	---	---	---	---	---	---	<1	---
MW-15	11/9/1999	<1	<1	<1	---	---	6	---	---	<1	---	---	---	---	---	---	---	<1	---
MW-15	5/18/2000	<1	<1	<1	---	---	7	---	---	<1	---	---	---	---	---	---	---	<1	---
MW-15	5/8/2001	<1	<1	<1	---	---	6	---	---	<1	---	---	---	---	---	---	---	<1	---
MW-15	5/14/2002	<0.5	<0.5	<0.5	---	---	13	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
MW-15	10/2/2002	<0.5	<0.5	<0.5	---	---	6	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
MW-15	4/30/2003	<0.5	<0.5	<0.5	---	---	12	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
MW-15	4/7/2004	<0.5	<0.5	<0.5	<0.5	---	5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	---
MW-15	10/11/2005	<0.5	<0.5	<0.5	---	---	9	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
MW-15	4/23/2008	<0.5	<0.5	<0.5	---	---	10	---	---	<0.5	---	---	---	---	---	---	---	<0.5	---
MW-15	7/14/2010	<1.0	<1.0	<1.0	---	---	<25.0	---	---	<1.0	---	---	---	---	---	---	---	<1.0	---
MW-15	7/13/2011	<1.0	<1.0	<1.0	---	---	<25.0	---	---	---	---	---	---	---	---	---	---	<1.0	---
MW-15	7/15/2013	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-15	6/24/2014	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0
MW-15	7/16/2015	<1.0	<1.0	<1.0	<1.0	---	<25.0	---	---	<1.0	<1.0	<1.0	---	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0

Results reported in Micrograms per liter (µg/L)
2L Standard - North Carolina Administrative Code 2L Groundwater Quality Standard
< - Not detected at or above the laboratory reporting limit
Bold - Concentration is greater than the 2L Standard

[1] On April 1, 2013 the North Carolina Department of Environment and Natural Resources raised the 2L Standard for 1,1-DCE to 350 µg/L. 1,1-Dichloroethylene (vinylidene chloride, or 1,1 DCE) was adopted by the Environmental Management Commision in accordance with 15A NCAC 02L .0202 (f) and is above the federal MCL. Where a private drinking water well or public water system is impacted by 1,1 DCE, the applicable standard is 7 ug/L, in accordance with 15A NCAC 02L .0202. [Note: No private drinking water well or public water system is impacted at this site.]