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August 14, 2012

Mr. Larry Stanley
North Carolina Department of Environment and Natural Resources (NCDENR)
Division of Waste Management
1646 Mail Service Center
Raleigh, NC 27699-1646

Re: 2011 Combined Annual Monitoring Report
DuPont Kinston Plant, Kinston, NC
EPA/NC ID No. NCD003190386

Dear Mr. Stanley:

Enclosed please find one copy of the Kinston 2011 Combined Annual Monitoring Report for your review. As requested, an electronic copy of the report is also being sent to your attention.

In the recommendation section of the 2011 report, DuPont has requested that the frequency of sampling be reduced from twice a year (semi-annual) to once a year (annual). This is based on historical data included in the report which indicates that groundwater concentrations have remained stable for several years. It is proposed that annual sampling of the monitoring wells at Kinston begin in 2013.

Please feel free to contact me at 704-362-6635 with any questions or comments regarding this report.

Sincerely,

Kevin P Garon
Project Director
DuPont Corporate Remediation Group (CRG)

cc: File

PARSONS

2011 COMBINED ANNUAL MONITORING REPORT

DUPONT KINSTON SITE
KINSTON, NORTH CAROLINA

Prepared for:

E. I. du Pont de Nemours and Company
Corporate Remediation Group
6324 Fairview Road
Charlotte, North Carolina 28210

Prepared by:

PARSONS
4701 Hedgemore Drive
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August 2012

DuPont PN 504337

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ACRONYMS

Acronym	Definition / Description
CAP	Corrective Action Plan
cis-1,2-DCE	cis-1,2-dichloroethene
CRG	(DuPont) Corporate Remediation Group
CSIA	Carbon-Specific Isotope Analysis
DCE	Dichloroethene
DERS	DuPont Environment Remediation Services
DuPont	E. I. du Pont de Nemours and Company
µg/L	Micrograms per liter
MNA	Monitored natural attenuation
NCDENR	North Carolina Department of Environment and Natural Resources
ORP	Oxidation-reduction potential
PRB	Permeable reactive barrier
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
TCE	Trichloroethene
USEPA	United States Environmental Protection Agency

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INTRODUCTION

This annual report documents the combined 2011 groundwater monitoring results for the E. I. du Pont de Nemours and Company (DuPont) plant in Kinston, North Carolina (Site) (Figure 1.1). The information in this report has historically been submitted as three separate reports; however, in an effort to streamline reporting for the Site, the information is now being presented as one report divided into the following four sections:

- Section 1 describes the results of the annual monitoring for the trichloroethene (TCE) area.
- Section 2 details the groundwater monitoring results for the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) area wells;.
- Section 3 presents the results for the Ash Landfill area wells.
- Section 4 provides references cited in the report.

Table 1.1 summarizes the groundwater monitoring program for the three areas described above.

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1.0 2011 ANNUAL TCE MONITORING REPORT

This section documents the 2011 groundwater monitoring results as required by the Site's Corrective Action Plan (CAP) Modification, which the North Carolina Department of Environment and Natural Resources (NCDENR) approved on June 1, 2002. Site background details are included in Section 1.1, followed by the scope for groundwater sampling in Section 1.2, sampling procedures in Section 1.3, data results in Section 1.4, and conclusions and recommendations drawn from the 2011 data in Section 1.5.

1.1 Background

Previous investigations conducted at the Site identified TCE-impacted groundwater originating in the area of monitoring well MW-30A (Figure 1.2). TCE levels vary vertically in this area. The highest concentration is found near the base of shallow sandy soils, which comprise the uppermost water-bearing horizon. The most impacted zone is a relatively thin interval of dark silty sand directly overlying the mudstone confining layer at a depth of about 15 to 18 feet. The area around MW-30A is a localized structural low on top of the mudstone confining layer. The water table lies at about five feet below ground surface.

A pump-and-treat system was installed on May 24, 1995, to recover and treat TCE-contaminated groundwater. The design and operation of this system was described in greater detail within a CAP approved by the NCDENR on April 18, 1995 (DERS 1994). Baseline conditions prior to startup of the system were reported to the NCDENR on August 30, 1995. In September 1999, a permeable reactive barrier (PRB) wall was installed to treat contaminated groundwater (DuPont Corporate Remediation Group [CRG] 1998). The NCDENR granted a 10-month temporary shutdown of the pump-and-treat system in August 2001 to allow time to evaluate the effectiveness of the PRB. A report summarizing the PRB effectiveness was submitted to the NCDENR in March 2002 (DuPont CRG 2002a). Based on the findings of the 10-month system review, a TCE CAP Modification Report was submitted to NCDENR in May 2002 (DuPont CRG 2002b). The NCDENR approved this report on June 1, 2002. The following recommendations were included in the CAP Modification Report:

- The pump-and-treat system will remain non-operational, contingent upon the continued, verifiable effectiveness of the zero valent iron treatment system.
- The performance of the zero valent iron treatment system will be assessed by routine sampling of the following 21 monitoring wells: MW-27, MW-28, MW-29, MW-30A, MW-35, MW-36, MW-37, MW-38, MW-43, MW-44, MW-47, MW-57, MW-58, MW-59, MW-60, and MW-61, BW-1, BW-2, BW-3, BW-4, and BW-5. Note that monitoring wells MW-58 through MW-61 were installed in the TCE release area after approval of the CAP Modification Report. Groundwater samples are analyzed for TCE, cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride.

1.2 Scope of Work

Specific tasks conducted to support development of this report included:

- Collection of groundwater elevation data
- Collection and analysis of groundwater samples from the 21 monitoring wells according to the schedule proposed in the CAP Modification Report

- Evaluation of analytical results and water levels with regard to historical data, CAP requirements, and site hydrologic conditions

1.3 Sampling Procedures

Groundwater samples were collected from all 21 wells in May 2011. In November 2011, all but eight of the 21 wells were sampled. The eight exceptions are MW-27, MW-28, MW-43, BW-1, BW-2, BW-3, BW-4, and BW-5 as specified in the CAP Modification Report. Sampling locations are depicted on Figure 2.

A low-flow (minimum drawdown) groundwater sampling technique was used to purge the monitoring wells and acquire groundwater samples. During the low-flow well purging, general groundwater quality parameters (including pH, oxidation-reduction, temperature, specific conductance, turbidity, and dissolved oxygen) were monitored to ensure that the wells were adequately purged prior to sample collection.

Each well was purged until the measured parameters were stabilized. Stabilization was defined as the point when the water quality parameters had stopped increasing or decreasing and when three consecutive parameter readings (collected at five-minute time intervals) were within 10 percent of the previous measurement. The final, stabilized water quality parameters from each sampling event are presented in Tables 1.2 and 1.3.

General field procedures used to obtain the groundwater samples during each sampling event are described below.

- New, disposable, chemically-inert tubing was placed into the well water column to the target sampling depth. This tubing was then connected to new, disposable, flexible, chemically-inert tubing in the peristaltic pump head.
- Water was removed from the well with the peristaltic pump into a flow-through cell that housed the field parameter probes.
- Depth-to-water levels were measured during sampling.
- Upon purge completion, sample containers were filled directly from the pump discharge tubing.
- To prevent cross-contamination between wells, clean disposable nitrile gloves were worn and were changed at every sampling location.
- All non-dedicated, disposable sampling equipment was disposed of after sampling each well.

1.3.1 Sample Collection, Preservation and Handling

Samples were collected into pre-preserved sample containers, and ice was used to maintain the samples at a cool temperature (approximately 4°C $\pm$ 2°C) from the time of collection until the coolers arrived at the laboratory. Each individual sample container was sealed according to laboratory specifications prior to being placed in the cooler. The ice was placed directly in contact with the sample containers within a heavy-duty plastic bag. Plastic “bubble wrap” was also used as padding to prevent sample container breakage. Clean, disposable gloves were worn during the handling of all samples and sampling devices.

1.3.2 Field Quality Control Samples

Field duplicate samples were collected to evaluate the precision of the field sampling procedures. Duplicate samples were collected by alternately filling sample containers with the same sampling device/method at the same location for each parameter. The duplicate samples were then transferred to the laboratory and analyzed for the same parameters as the original samples.

Equipment blank samples and trip blank samples were used to identify potential sources of cross-contamination during each sampling event. Equipment blanks (field rinsate blanks) were used to evaluate equipment cleaning and/or decontamination procedures. Equipment blank samples were prepared by passing analyte-free, organic-free water over or through the sample collection device and into a sample container and preserving as appropriate. Trip blank samples were analyzed only for volatile organic compounds and consisted of sample containers filled at the laboratory with analyte-free, organic-free water. The trip blanks traveled to the Site with the empty sample bottles and back from the Site with the collected samples, in an effort to simulate sample handling conditions. Trip blanks were not opened in the field. All blank samples were handled, transported, and analyzed in the same manner as the actual field samples.

Any positive detections in the investigative samples that were not significantly above concentrations observed in the associated blank samples were flagged with a “B” qualifier (identifying that they are unreliable concentrations), and the results were not carried forward for further discussion.

1.4 Groundwater Results

1.4.1 Potentiometric Surface

Groundwater depth measurements in each well were recorded during both sampling events (May and November 2011). Groundwater elevations were calculated by subtracting the depth to water from the surveyed elevation of a measuring point at the top of each well. Groundwater elevation data remained consistent over this reporting period and are presented in Table 1.4 (May 2011) and Table 1.5 (November 2011).

The potentiometric surfaces of the upper aquifer for the May and November 2011 sampling events are depicted in Figures 1.3 and 1.4, respectively. The potentiometric surface maps show that the groundwater flow direction in the plume area and the northern portion of the manufacturing area is toward the north/northwest toward Beaverdam Branch. These results are consistent with previous potentiometric maps generated for this area. The potentiometric surface maps show that the gradient steepens slightly in the northern portion of the manufacturing area.

1.4.2 Analytical Results

Analytical detections for this reporting period are summarized in Table 1.6. Historical TCE, cis 1,2-DCE, and vinyl chloride analytical data are summarized in Table 1.7, Table 1.8, and Table 1.9, respectively. Isoconcentration contour maps depicting the extent of TCE detected in groundwater from the May and November 2011 sampling events are presented as Figure 1.5 and Figure 1.6, respectively. Overall, the TCE plume extends in the northwest direction. As mentioned in previous reports, the TCE plume extends laterally to the immediate area south of MW-30A, MW-57 to the northwest, and the immediate area around MW-35 to the east (see Figure 1.5). Isoconcentration contour

maps depicting the extent of cis-1,2-DCE detected in groundwater from the May and November 2011 sampling events are presented as Figure 1.7 and Figure 1.8, respectively. The cis-1,2-DCE plume extends to the northwest similar to the TCE plume.

The lateral extent of the TCE and cis-1,2-DCE plumes have not changed over the past ten years. Analytical results indicate that the downgradient edge of the plumes extends to the area around monitoring wells MW-38 and MW-57 where concentrations have remained below 10 ug/L for the past ten years. Concentrations of TCE and cis-1,2-DCE in groundwater have remained stable on the downgradient side of the PRB wall (see MW-29 on Table 1.7). As shown on the isoconcentration contour maps, the wall is capturing the plumes and continues to be an effective remedial measure. Laboratory analytical data are included as Appendix A of this report.

Concentrations of TCE, cis 1,2-DCE and vinyl chloride from monitoring wells downgradient of the PRB remained at concentrations significantly below those detected in the upgradient wells and below the 150 micrograms per liter (µg/L) threshold value for re-evaluation of the treatment system. TCE, cis 1,2-DCE, and vinyl chloride concentrations in monitoring wells further downgradient of the PRB (MW-37, MW-38, and MW-57) have remained consistent since January 2002 (Tables 1.7 through 1.9). Since January 2002, TCE has not been detected in groundwater samples collected from MW-27, MW-43, and MW-44.

A historical trend chart of TCE in groundwater from monitoring well MW-30A, which is located within the source area, shows that concentrations have increased since 2003 (Figure 1.9). There have been significant swings in the TCE concentrations detected at this well (from a low of 46 µg/L in April 2003 to a high of 8.900 µg/L in November 2008). However, since 2006, the average concentration at this well has been relatively stable with a slightly decreasing trend. The concentration of TCE and its daughter product cis-1,2-DCE have followed the same trend over the years, indicating that degradation is occurring at a constant rate within the shallow aquifer.

The concentration of TCE in groundwater at MW-47, which is located within the source area, has been variable (up and down) over the years (Table 1.7). However, the concentration was essentially the same (51.5 µg/L) during the most recent sampling event (November 2011) as it was in May 2008 (49 µg/L).

1.5 Conclusions and Recommendations

The conclusions and recommendations provided in the following subsections are based on the data presented above and in previous reports (DuPont CRG 2003a, 2004, 2005, 2006, 2007, 2008, 2009, 2010, and 2011).

1.5.1 Conclusions

- Based on data collected during the 2011 sampling events, the PRB remains effective in reducing TCE concentrations and is meeting the program objectives outlined in the CAP (DERS 1994).
- Analytical results indicate that the TCE and cis-1,2-DCE groundwater plume configuration is consistent with past sampling results.
- The concentrations of TCE and cis-1,2-DCE in groundwater at MW-30A (source area) have varied considerably over the years based on seasonal fluctuations. Typically, the concentrations of these compounds are higher in the Fall than they are in the Spring. Overall, the concentrations of TCE and cis-1,2-DCE in

groundwater at MW-30A during the 2011 sampling events are slightly lower than the concentrations detected in 2006. The concentrations of these two compounds have followed the same trend over the years.

1.5.2 Recommendations

- Maintain current non-operational status of the pump-and-treat system
- Conduct two semi-annual groundwater monitoring events in 2012
- Continue to build an analytical database for evaluating concentrations of constituents in groundwater over time
- It is recommended that the sampling frequency be reduced from semi-annually to annually. This is based on the amount of historical data available and the fact that groundwater concentrations have remained relatively stable over the past five years. It is proposed that annual sampling of the monitoring wells begin in 2013.

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2.0 2011 ANNUAL RFI REPORT

This section of the annual report documents the 2011 groundwater monitoring results for the RFI Monitoring Wells. Continued groundwater monitoring is planned as part of the Final Remedy for the Site as described in the Phase II RFI report (DuPont 2003b). The tasks completed in development of this report are summarized in Section 2.1, sampling procedures are provided in Section 2.2, and data results are presented in Section 2.3.

2.1 Scope of Work

The following specific tasks were conducted to support development of this report:

- Collection of groundwater elevation data
- Collection and analysis of groundwater samples from monitoring wells according to the schedule shown on Table 1.1
- Submission of this annual report

2.2 Sampling Procedures

Groundwater samples were collected for laboratory analysis of 1,4-dioxane from the following 14 RFI monitoring network wells in May and November 2011: MW-02, MW-10, MW-11, MW-14, MW-15, MW-16, MW-19, MW-20, MW-21, MW-22, MW-23A, MW-25, MW-52, and MW-56. In addition, MW-22 was sampled for acrolein, 1,1-biphenyl, and diphenyl ether. Sampling locations are depicted on Figure 2.2.

The same sampling procedures used for TCE area monitoring (see Section 1.4) were used for these wells. Each well was purged until the measured parameters were stabilized. The final, stabilized water quality parameters from each sampling event are presented in Tables 2.1 and 2.2.

2.3 Groundwater Results

2.3.1 Potentiometric Surface

Groundwater depth measurements in each well were recorded during both sampling events (May and November 2011). Groundwater elevations were calculated by subtracting the depth to water from the surveyed elevation of a measuring point at the top of each well. Groundwater elevation data remained consistent over this reporting period and are presented in Table 2.3 (May 2011) and Table 2.4 (November 2011).

The potentiometric surfaces of the upper aquifer for the May and November 2011 sampling events are depicted in Figures 2.1 and 2.2, respectively. The potentiometric surface maps show that the groundwater flow direction is to the southeast toward the Neuse River.

2.3.2 Analytical Results

Analytical detections for this reporting period are summarized in Tables 2.5 and 2.6 and shown on Figures 2.3 and 2.4. In May, 1,4-dioxane concentrations exceeded the NC 2L drinking water standard in all wells except for MW-10 and MW-19. In addition, acrolein, biphenyl, and diphenyl ether were detected in groundwater at MW-22 above NC 2L standards.

The November results were similar to the May results except that the concentrations of 1,4-dioxane at MW-10, MW-19, and MW-23A did not exceed the NC 2L standard. Laboratory analytical data are included as Appendix A of this report.

Historical analytical results from January 2002 to November 2011 are presented on Table 2.7. The 1,4-dioxane concentration in groundwater at MW-22 decreased significantly in 2008 and since then, has remained at relatively low concentrations. The historical data indicate that 1,4-dioxane concentrations at the remaining well locations have generally decreased or remained stable since 2002. The presence of acrolein, 1,1-biphenyl, and diphenyl ether in groundwater at MW-22 will continue to be monitored in the future. Currently, an investigation is underway to determine the most likely source of these compounds at MW-22.

2.4 Recommendations

It is recommended that the sampling frequency be reduced from semi-annually to annually based on the amount of historical data available, the lack of a significant seasonal fluctuations, and the fact that groundwater concentrations have decreased or remained stable over the past ten years. It is proposed that annual sampling of the monitoring wells begin in 2013.

3.0 2011 ASH LANDFILL REPORT

This section of the annual report documents the 2011 groundwater monitoring results associated with the post closure activities for the Ash Landfill Monitoring Wells at the Site (Figure 1.1). The specific tasks in support of this report are summarized in Section 3.1, sampling procedures are provided in Section 3.2, and data results are presented in Section 3.3.

3.1 Scope of Work

The following specific tasks were conducted to support development of this report:

- Collection of groundwater elevation data
- Collection and analysis of groundwater samples from monitoring wells according to the schedule shown on Table 1.1
- Submission of this annual report

3.2 Sampling Procedures

Groundwater samples were collected from the following six Ash Landfill monitoring network wells in May and November 2011: MW-13, MW-14, MW-15, MW-16, MW-17A, and MW-18. The samples were submitted for laboratory analysis of the following constituents: arsenic, barium, cadmium, chromium, copper, iron, lead, manganese, selenium, silver, zinc, mercury, alkalinity, chlorine, fluoride, nitrate, sulfate, total dissolved solids, total organic carbon, total organic halides, and chemical oxygen demand. Sampling locations are depicted on Figure 2.2.

The same sampling procedures used for TCE area monitoring (see Section 1.4) were used for these wells. Each well was purged until the measured parameters were stabilized. The final, stabilized water quality parameters from each sampling event are presented in Tables 3.1 and 3.2.

3.3 Groundwater Results

3.3.1 Potentiometric Surface

Groundwater depth measurements in each well were recorded during both sampling events (May and November 2011). Groundwater elevations were calculated by subtracting the depth to water from the surveyed elevation of a measuring point at the top of each well. Groundwater elevation data remained consistent over this reporting period and are presented in Table 3.3 (May 2011) and Table 3.4 (November 2011).

The potentiometric surfaces of the upper aquifer for the May and November 2011 sampling events are depicted in Figures 2.1 and 2.2, respectively. The potentiometric surface maps show that the groundwater flow direction is to the southeast toward the Neuse River.

3.3.2 Analytical Results

Analytical detections for this reporting period are summarized in Tables 3.5 (May 2011) and 3.6 (November 2011). Laboratory analytical data are included as Appendix A of this report. Historical results from 2002 to 2011 are presented on Table 3.7. The last ten years of data was reviewed and with a few exceptions, groundwater concentrations have

generally remained stable or slightly decreased since 2002. The exceptions are slight increases in total organic carbon, iron, and total organic halogens at a few well locations.

3.4 Recommendations

It is recommended that the sampling frequency be reduced from semi-annually to annually based on the amount of historical data available, the lack of a significant seasonal fluctuations, and the fact that groundwater concentrations have decreased or remained stable over the past ten years. It is proposed that annual sampling of the monitoring wells begin in 2013.

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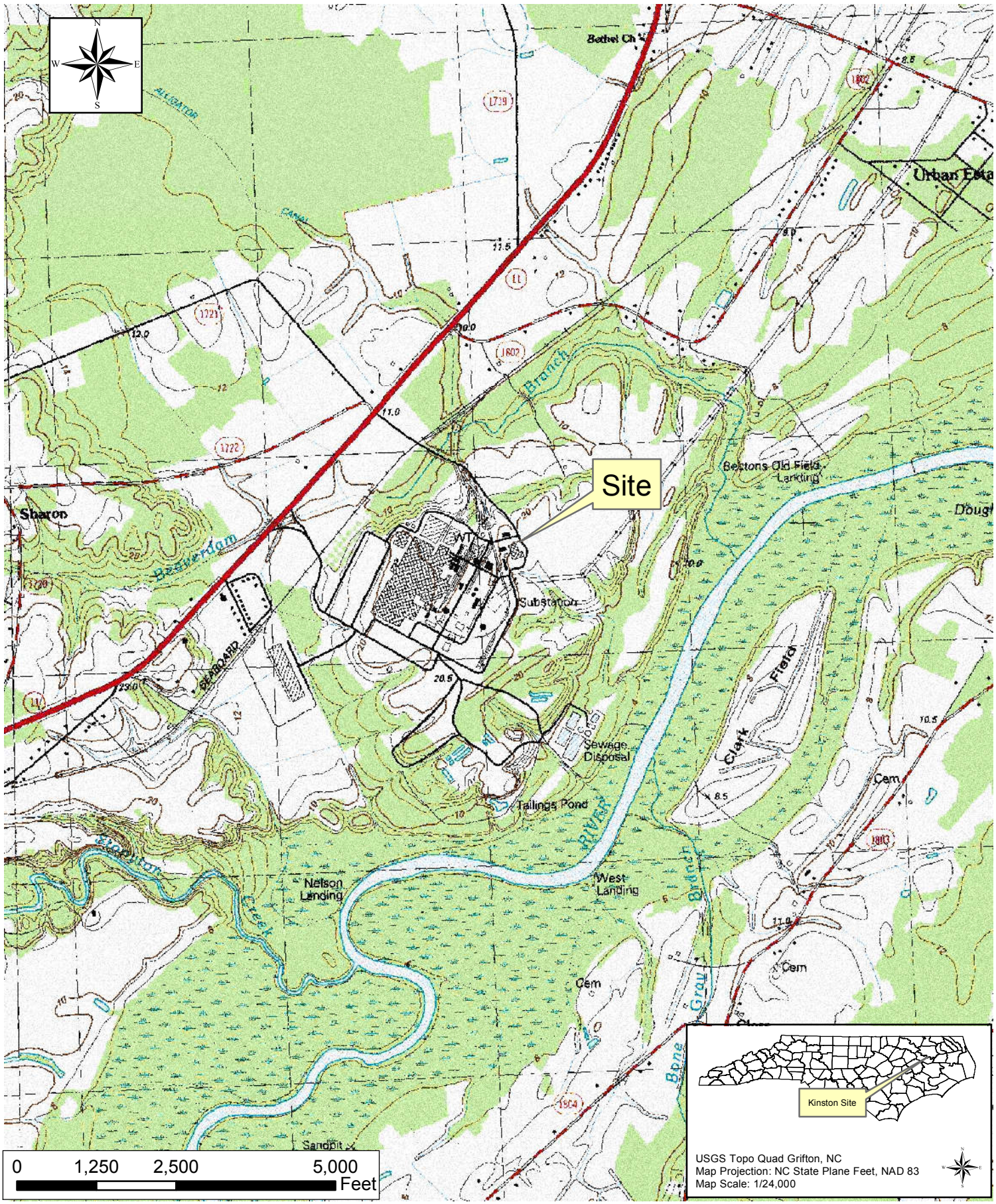
FIGURES



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4701 Hedgemore Dr.
Charlotte, NC 28209

TITLE: Topographic Site Location Map
2011 Combined Annual Monitoring Report
DuPont Kinston Plant
Kinston, North Carolina

Drawn:	Date:	DuPont Project No.:
C. Oneal	2/18/11	504337
Revision:	Figure No.:	Parsons Project No.:
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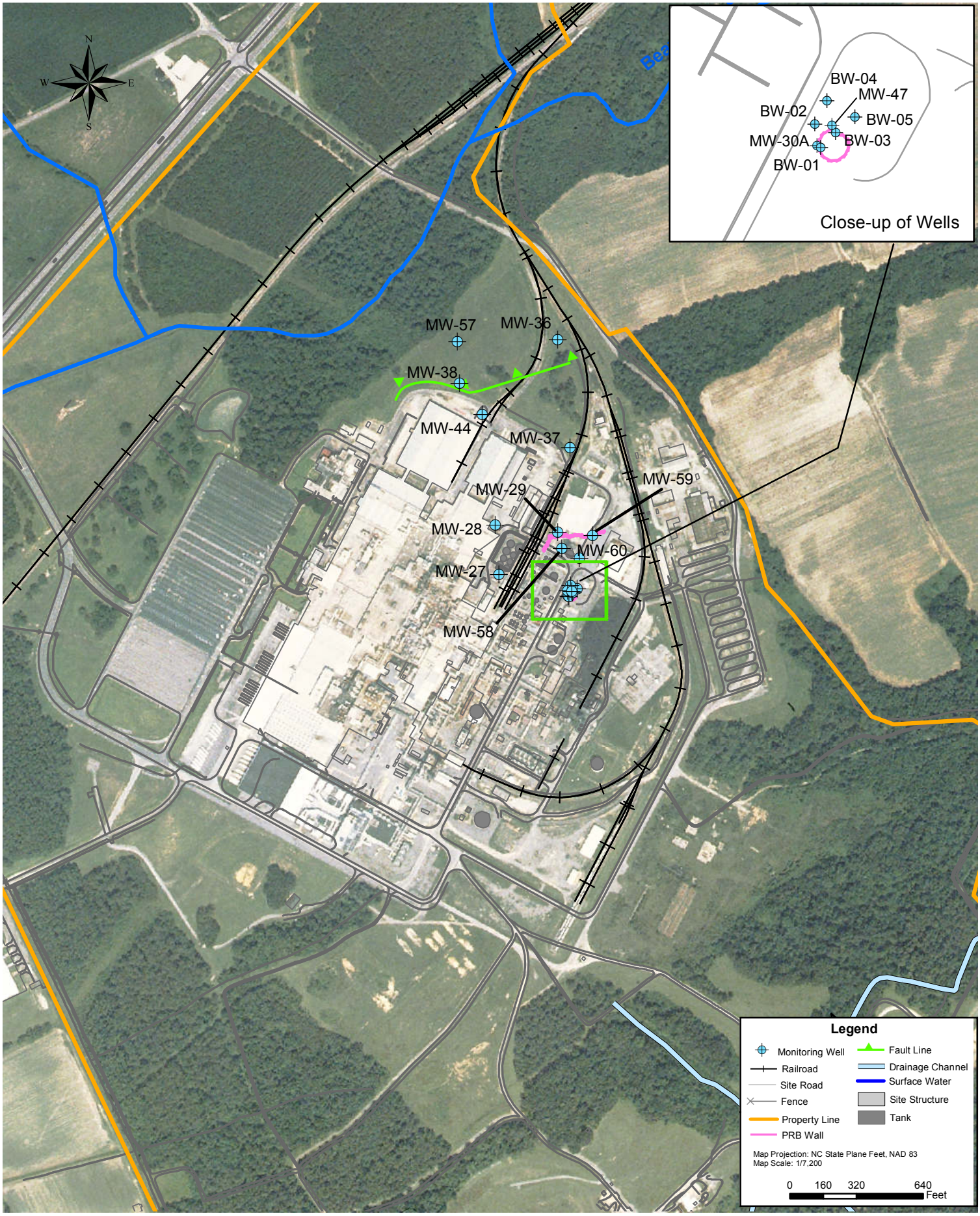

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4701 Hedgemore Dr.
Charlotte, NC 28209

TITLE: Sample Location Map: TCE Wells
2011 Combined Annual Monitoring Report
DuPont Kinston Plant
Kinston, North Carolina

Drawn:	Date:	DuPont Project No.:
C. Oneal	4/8/2009	504337
Revision:	Figure No.:	Parsons Project No.:
	1.2	445334.02100

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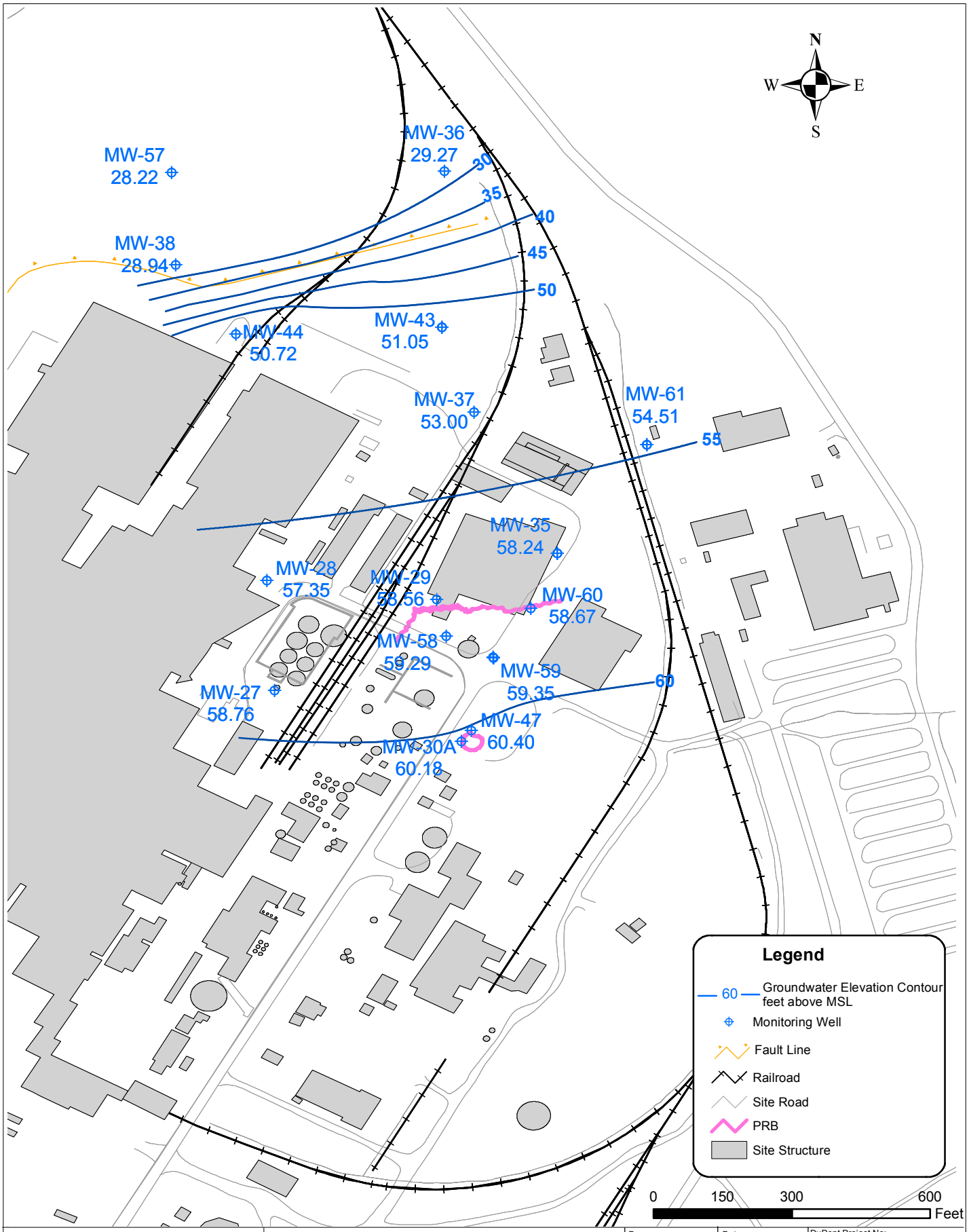

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4701 Hedgemore Dr.
Charlotte, NC 28209

TITLE:

Potentiometric Surface Map: TCE Wells (May 2011)
2011 Combined Annual Monitoring Report
DuPont Kinston Plant
Kinston, North Carolina

Drawn: C. Oneal	Date: 07/10/12	DuPont Project No: 4337
Revision:	Figure No: 1.3	Parsons Project No: 445334.02100

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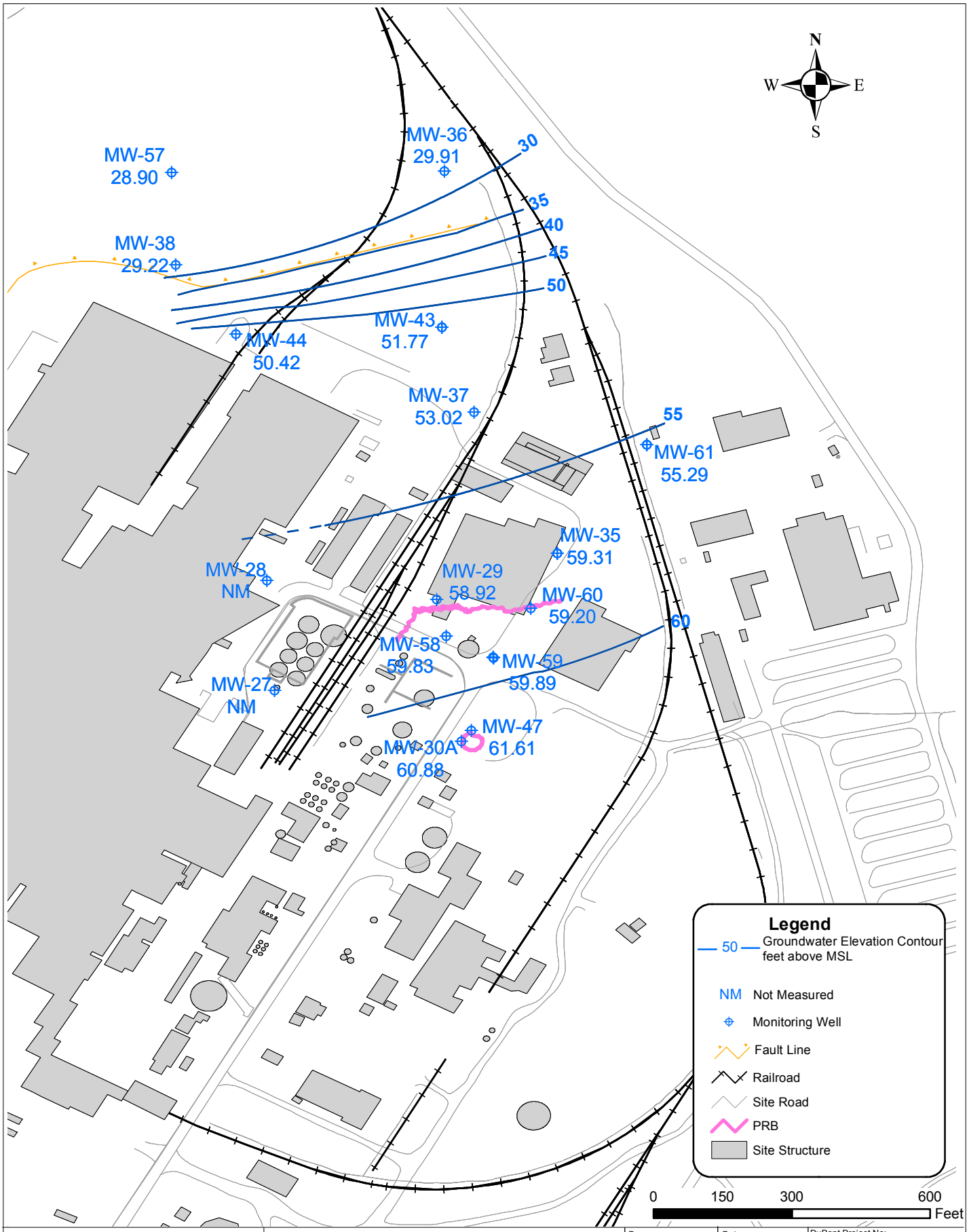

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4701 Hedgemore Dr.
Charlotte, NC 28209

TITLE:

Potentiometric Surface Map: TCE Wells (November 2011)
2011 Combined Annual Monitoring Report
DuPont Kinston Plant
Kinston, North Carolina

Drawn: C. Oneal	Date: 07/15/12	DuPont Project No: 4337
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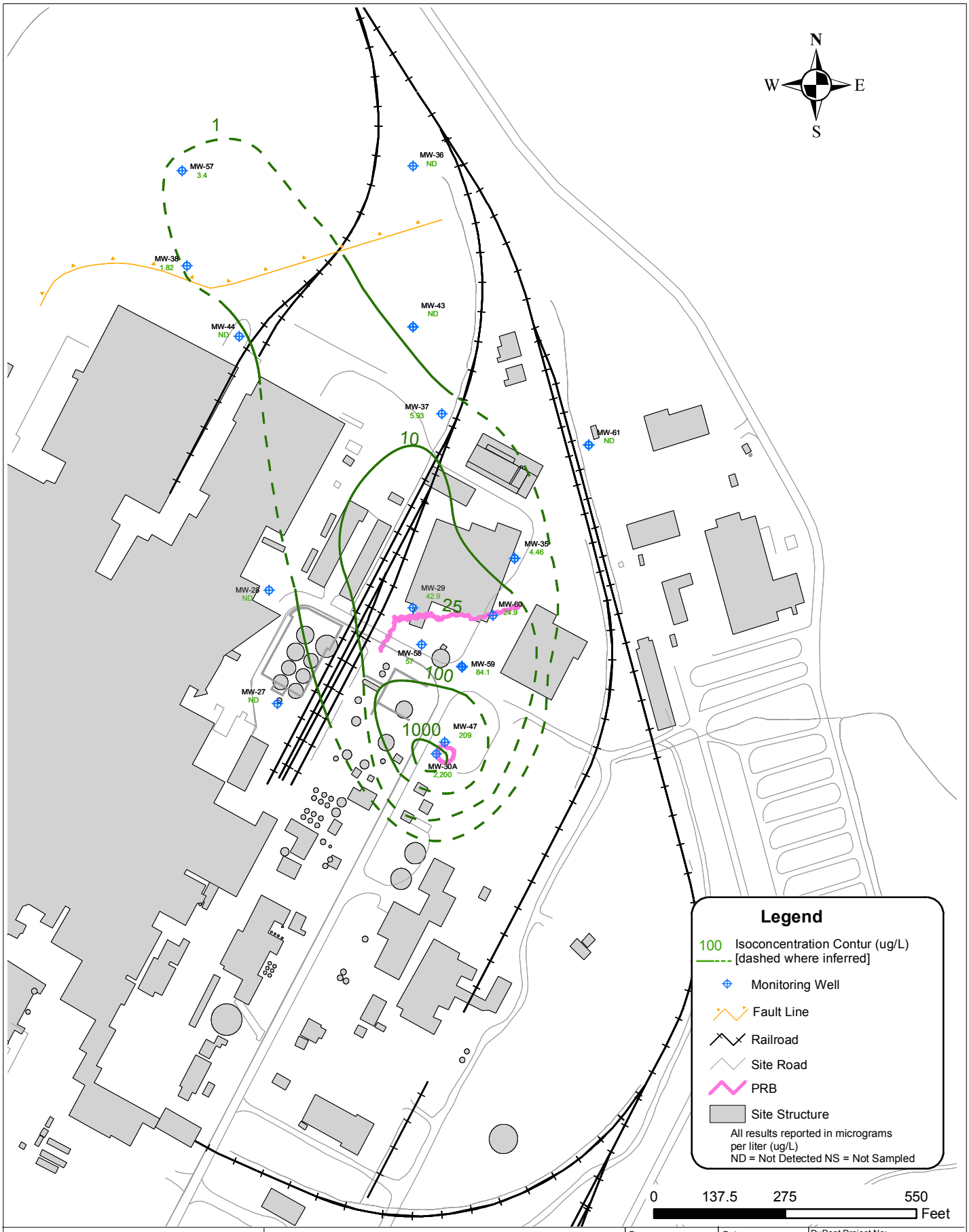

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Charlotte, NC 28209

TITLE:

TCE Isoconcentration Contour Map (May 2011)
2011 Combined Annual Monitoring Report
DuPont Kinston Plant
Kinston, North Carolina

Drawn: C. Oneal	Date: 07/10/12	DuPont Project No: 4337
Revision:	Figure No: 1.5	Parsons Project No: 445334.02100

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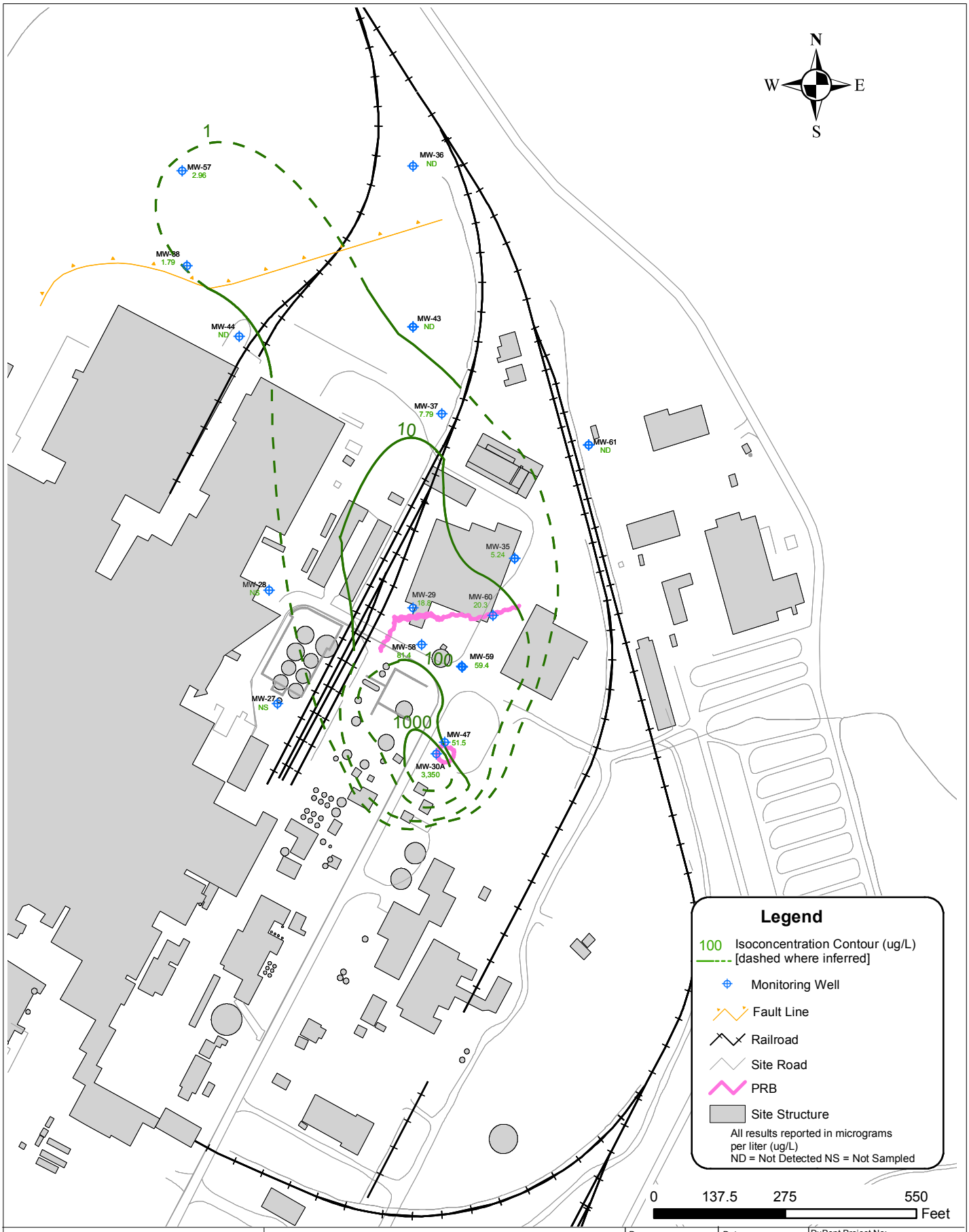

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PE&I

4701 Hedgemore Dr.
Charlotte, NC 28209

TITLE:
TCE Isoconcentration Contour Map (November 2011)
2011 Combined Annual Monitoring Report
DuPont Kinston Plant
Kinston, North Carolina

Drawn: C. Oneal	Date: 07/10/12	DuPont Project No: 4337
Revision:	Figure No: 1.6	Parsons Project No: 445334.02100

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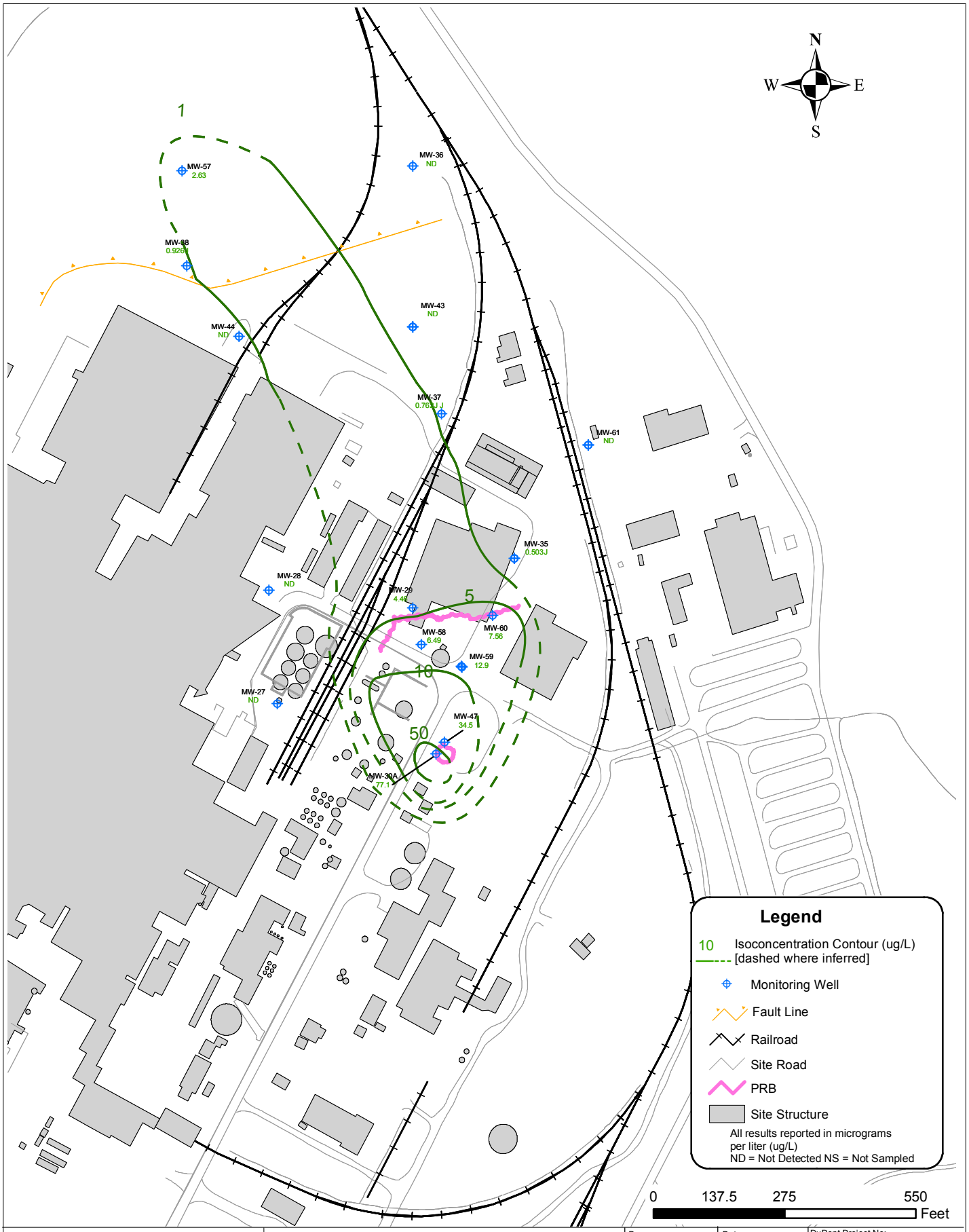

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4701 Hedgemore Dr.
Charlotte, NC 28209

TITLE:
CIS 1,2-DCE Isoconcentration Contour Map (May 2011)
2011 Combined Annual Monitoring Report
DuPont Kinston Plant
Kinston, North Carolina

Drawn: C. Oneal	Date: 07/10/12	DuPont Project No: 4337
Revision:	Figure No: 1.7	Parsons Project No: 445334.02100

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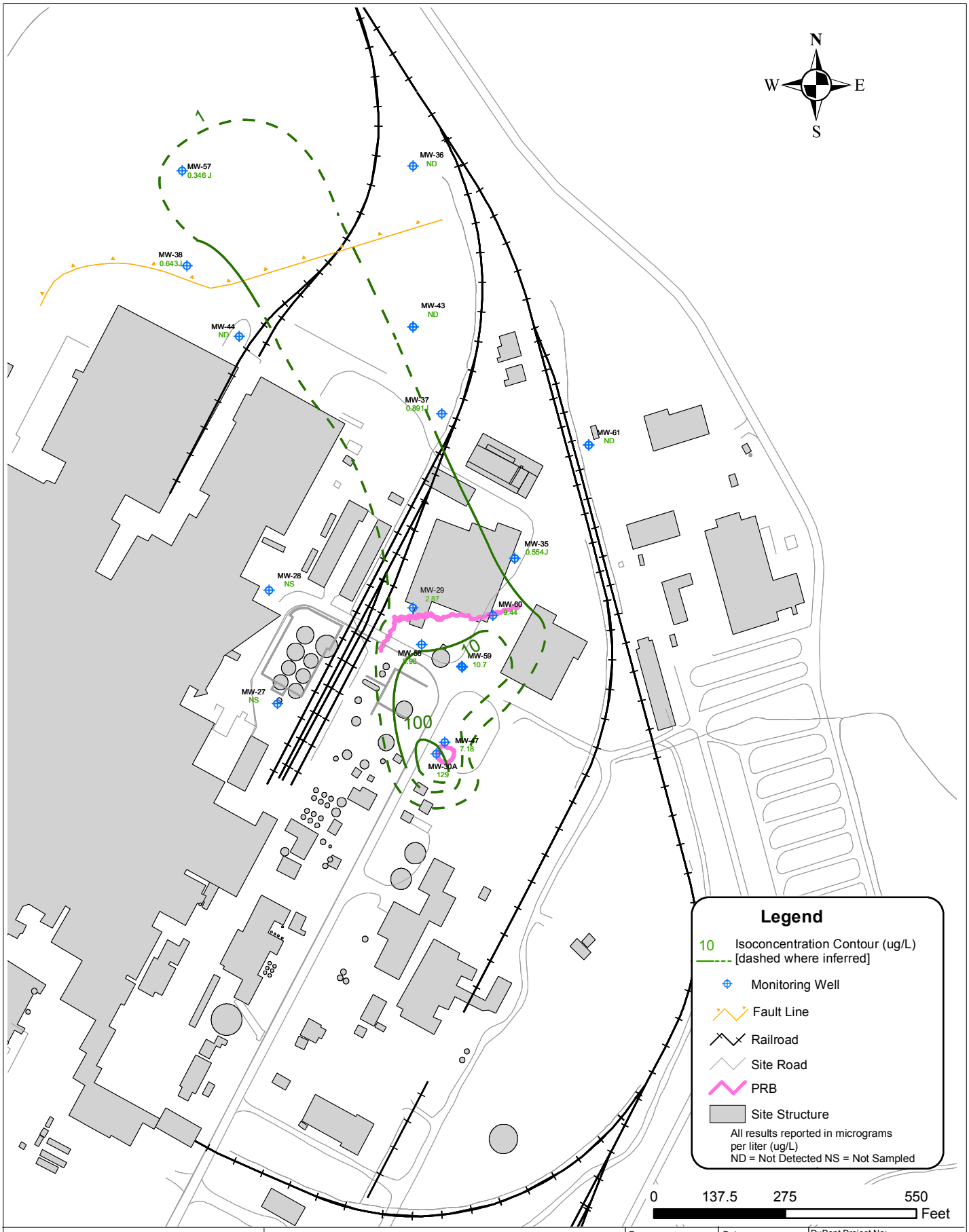

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4701 Hedgemore Dr.
Charlotte, NC 28209

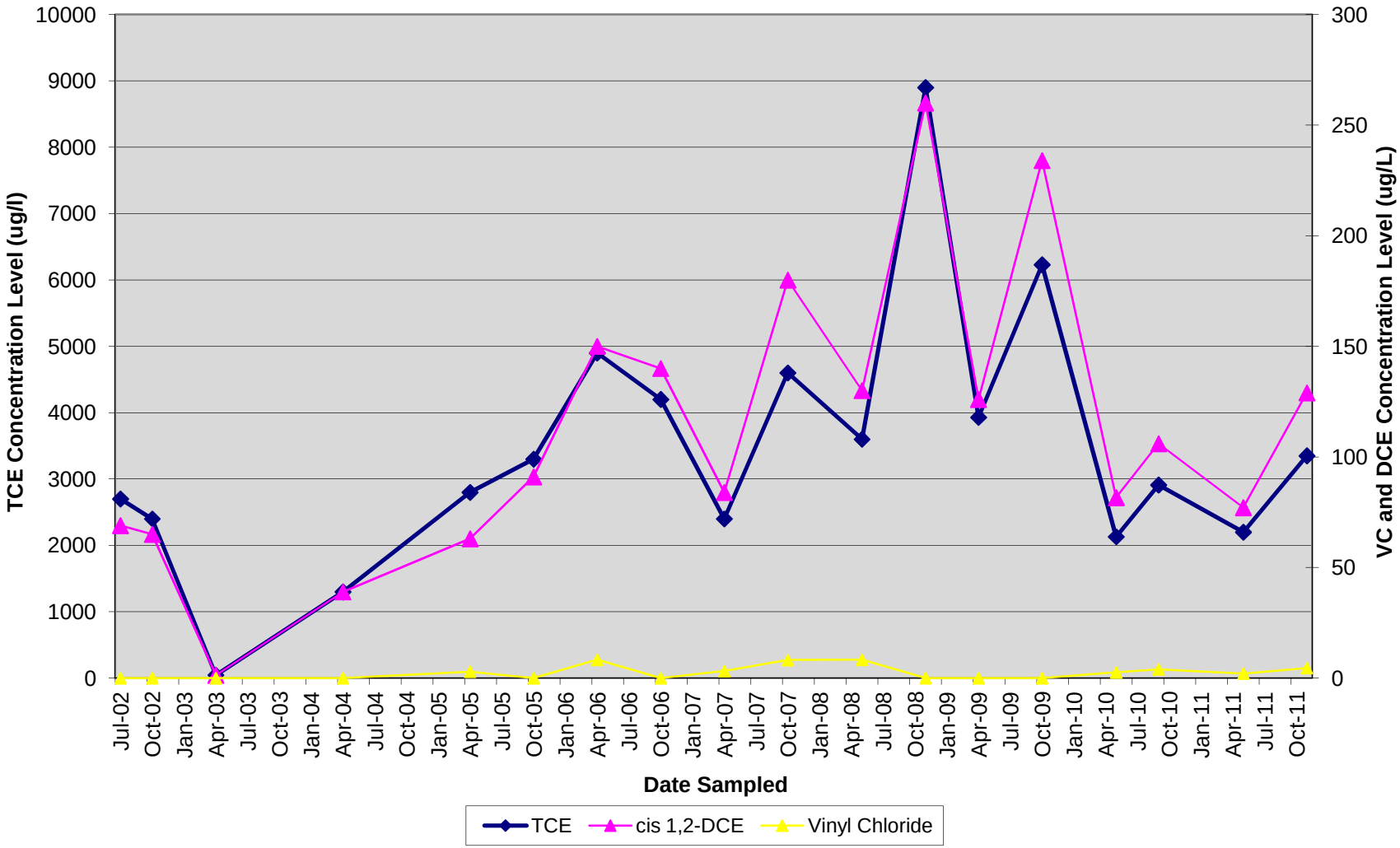
TITLE:

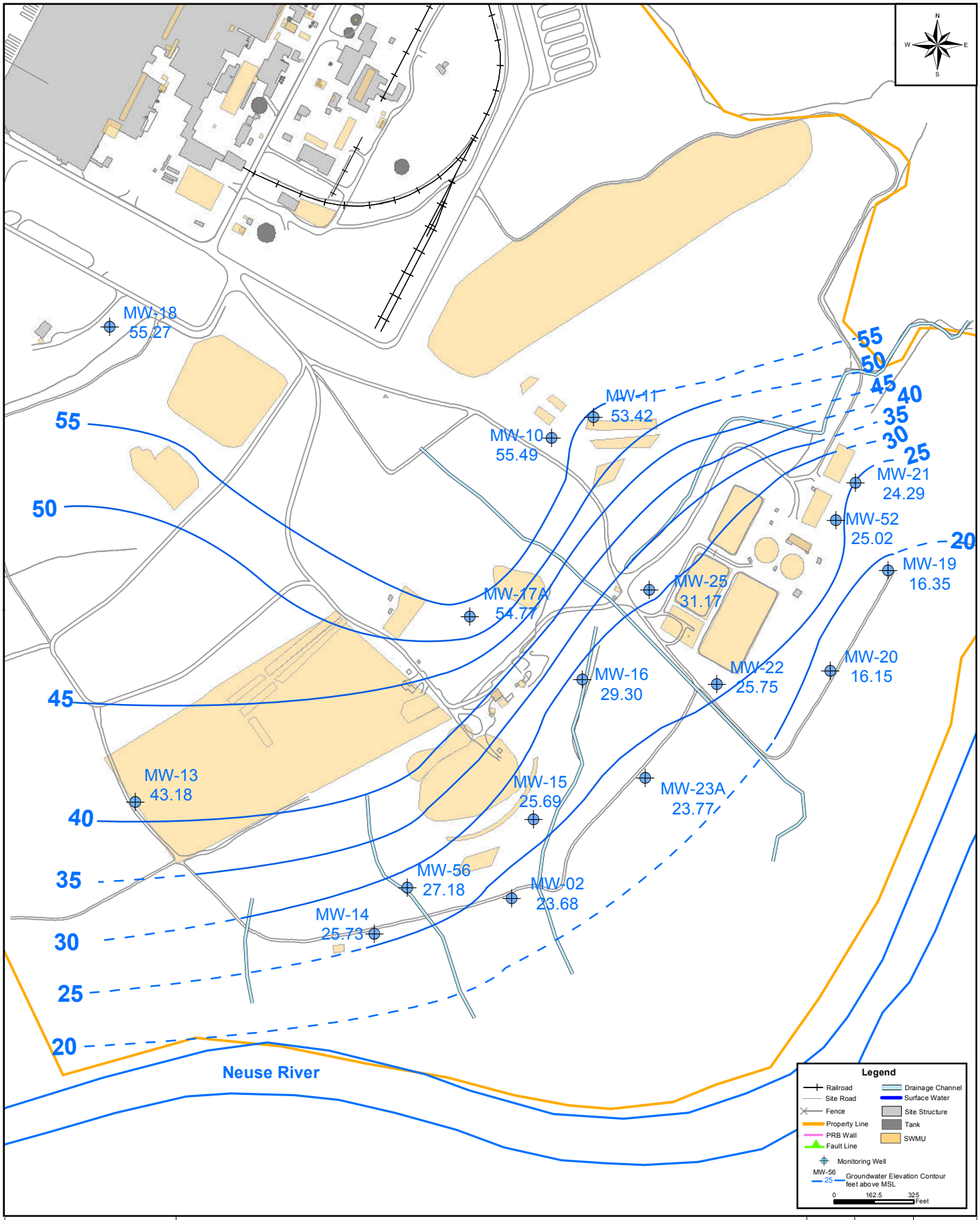
CIS 1,2-DCE Isoconcentration Contour Map (November 2011)
2011 Combined Annual Monitoring Report
DuPont Kinston Plant
Kinston, North Carolina

Drawn: C. Oneal	Date: 07/18/12	DuPont Project No: 4337
Revision:	Figure No: 1.8	Parsons Project No: 445334.02100

File Name:
G:/GIS/Kinston/Gis/Project_figures/TCE_Report/2012/Kin_CIS12DCE_11_2011.mxd

Figure 1.9: Historical Concentrations of TCE, DCE, and Vinyl Chloride in Groundwater at MW-30A





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4701 Hedgemore Dr.
Charlotte, NC 28209

TITLE: Potentiometric Surface Map: RFI Wells (May 2011)
2011 Combined Annual Monitoring Report
DuPont Kinston Plant
Kinston, North Carolina

Drawn: C. Oneal	Date: 7/20/2012	DuPont Project No.:
Revision:	Figure No.: 2.1	Parsons Project No.: 445334.02011

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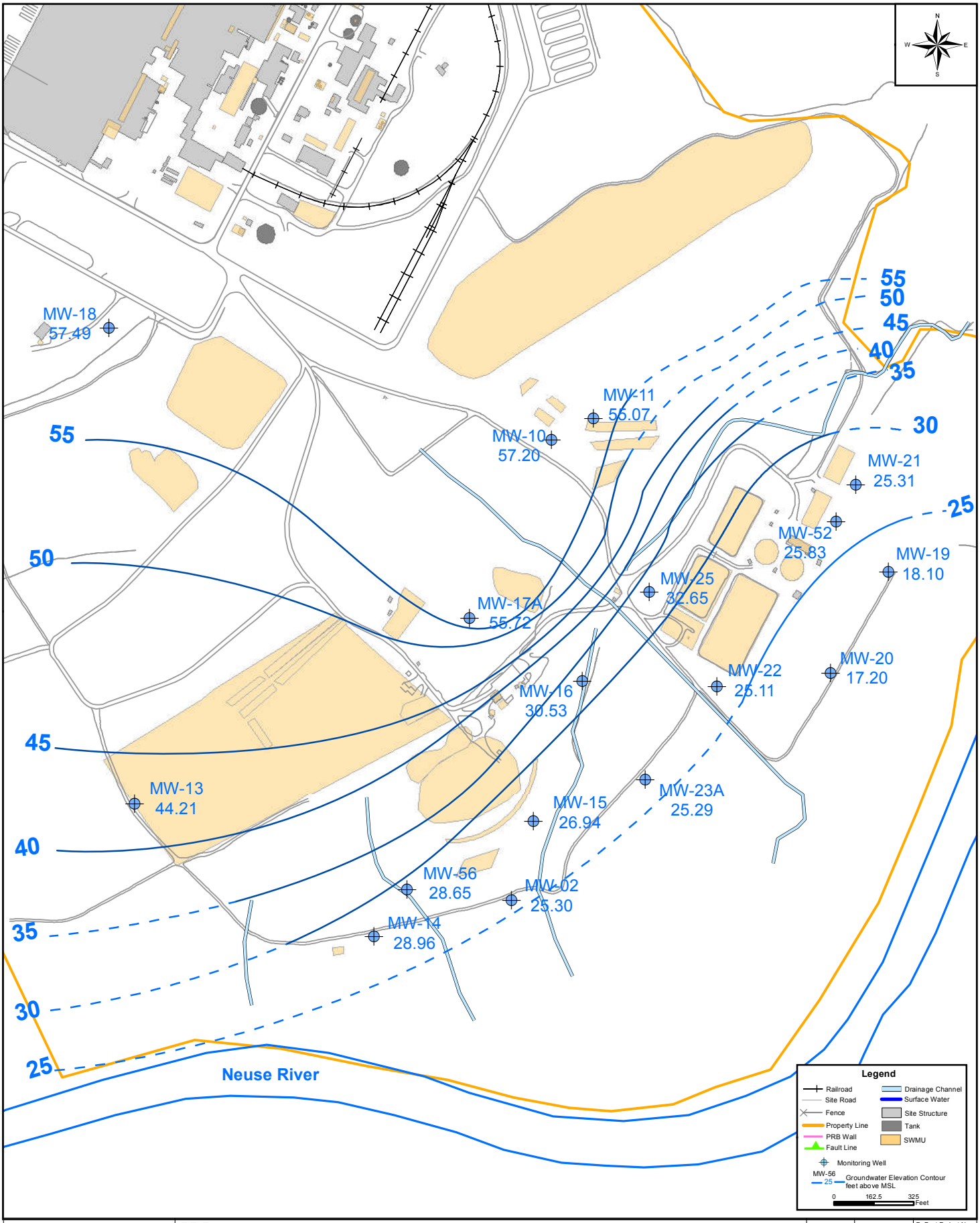

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4701 Hedgemore Dr.
Charlotte, NC 28209

TITLE: Potentiometric Surface Map: RFI Wells (November 2011)
2011 Combined Annual Monitoring Report
DuPont Kinston Plant
Kinston, North Carolina

Drawn: C. Oneal	Date: 7/20/2012	DuPont Project No.:
Revision:	Figure No.: 2.2	Parsons Project No.: 445334.02011

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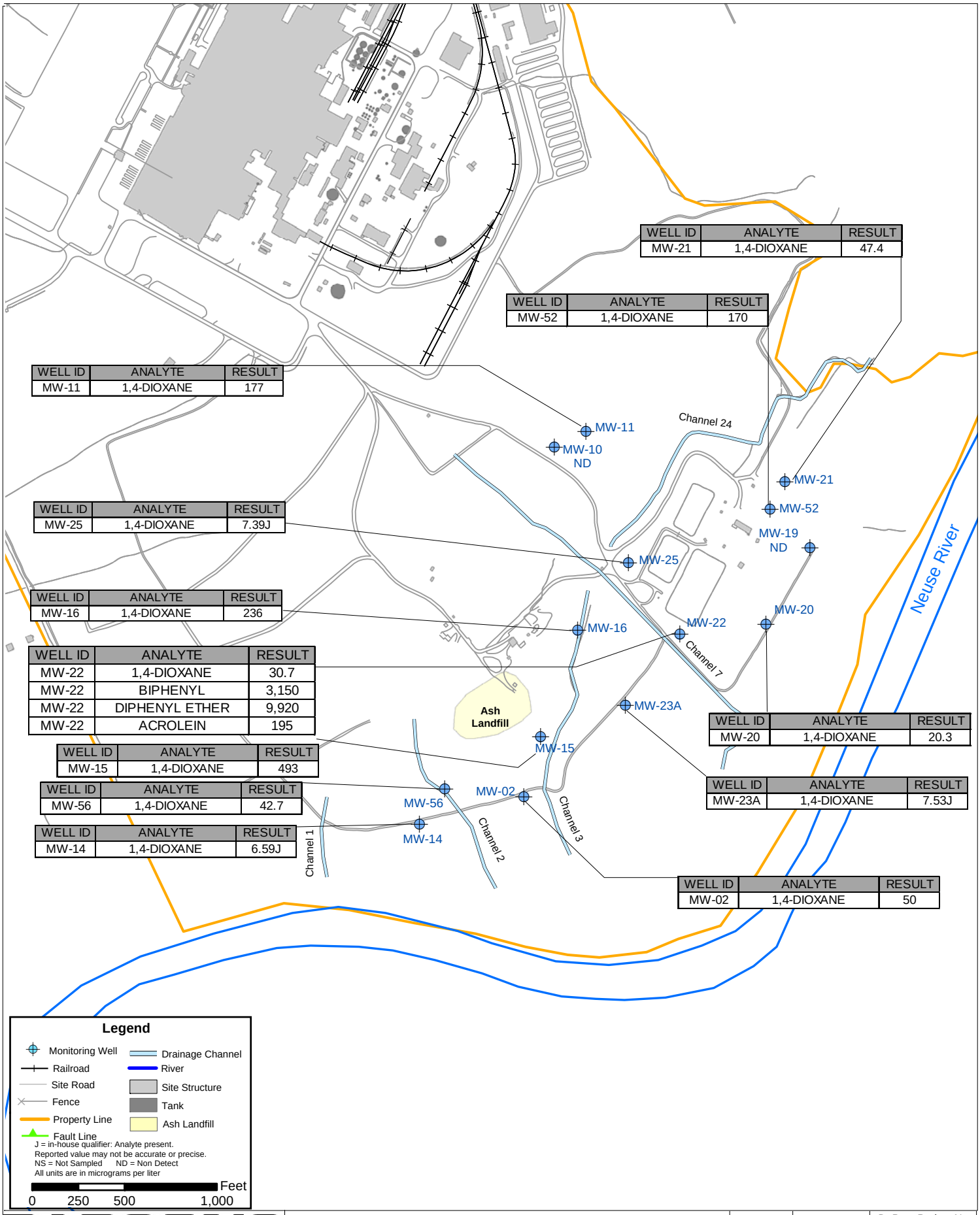

WELL ID	ANALYTE	RESULT
MW-21	1,4-DIOXANE	47.4

WELL ID	ANALYTE	RESULT
MW-52	1,4-DIOXANE	170

WELL ID	ANALYTE	RESULT
MW-11	1,4-DIOXANE	177

WELL ID	ANALYTE	RESULT
MW-25	1,4-DIOXANE	7.39J

WELL ID	ANALYTE	RESULT
MW-16	1,4-DIOXANE	236

WELL ID	ANALYTE	RESULT
MW-22	1,4-DIOXANE	30.7
MW-22	BIPHENYL	3,150
MW-22	DIPHENYL ETHER	9,920
MW-22	ACROLEIN	195

WELL ID	ANALYTE	RESULT
MW-20	1,4-DIOXANE	20.3

WELL ID	ANALYTE	RESULT
MW-15	1,4-DIOXANE	493

WELL ID	ANALYTE	RESULT
MW-23A	1,4-DIOXANE	7.53J

WELL ID	ANALYTE	RESULT
MW-56	1,4-DIOXANE	42.7

WELL ID	ANALYTE	RESULT
MW-14	1,4-DIOXANE	6.59J

WELL ID	ANALYTE	RESULT
MW-02	1,4-DIOXANE	50

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4701 Hedgemore Dr.
Charlotte, NC 28209

TITLE: Data Post Map - RFI Wells (May, 2011)
DuPont Kinston Plant
Kinston, North Carolina

Drawn: C. Oneal	Date: 07/05/2012	DuPont Project No.: 504337
Revision:	Figure No.: 2.3	Parsons Project No.: 445334.02012
File Name: Kin_data_post_05_2011		

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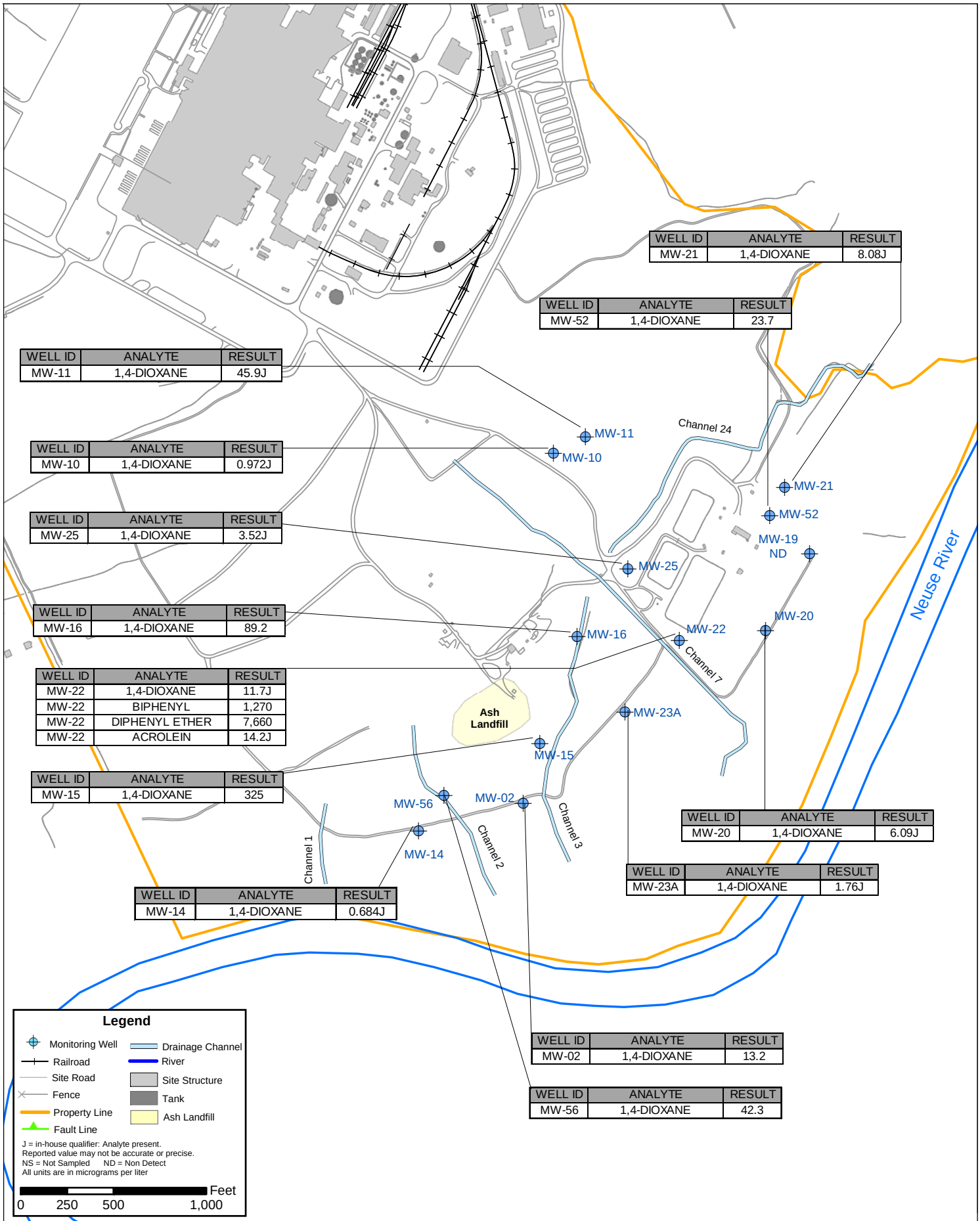

WELL ID	ANALYTE	RESULT
MW-21	1,4-DIOXANE	8.08J

WELL ID	ANALYTE	RESULT
MW-52	1,4-DIOXANE	23.7

WELL ID	ANALYTE	RESULT
MW-11	1,4-DIOXANE	45.9J

WELL ID	ANALYTE	RESULT
MW-10	1,4-DIOXANE	0.972J

WELL ID	ANALYTE	RESULT
MW-25	1,4-DIOXANE	3.52J

WELL ID	ANALYTE	RESULT
MW-16	1,4-DIOXANE	89.2

WELL ID	ANALYTE	RESULT
MW-22	1,4-DIOXANE	11.7J
MW-22	BIPHENYL	1,270
MW-22	DIPHENYL ETHER	7,660
MW-22	ACROLEIN	14.2J

WELL ID	ANALYTE	RESULT
MW-15	1,4-DIOXANE	325

WELL ID	ANALYTE	RESULT
MW-20	1,4-DIOXANE	6.09J

WELL ID	ANALYTE	RESULT
MW-23A	1,4-DIOXANE	1.76J

WELL ID	ANALYTE	RESULT
MW-14	1,4-DIOXANE	0.684J

WELL ID	ANALYTE	RESULT
MW-02	1,4-DIOXANE	13.2

WELL ID	ANALYTE	RESULT
MW-56	1,4-DIOXANE	42.3

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4701 Hedgemore Dr.
Charlotte, NC 28209

TITLE: Data Post Map - RFI Wells (November, 2011)
DuPont Kinston Plant
Kinston, North Carolina

Drawn: C. Oneal	Date: 07/05/2012	DuPont Project No.: 504337
Revision:	Figure No.: 2.4	Parsons Project No.: 445334.02012
File Name: Kin_data_post_09_2011		

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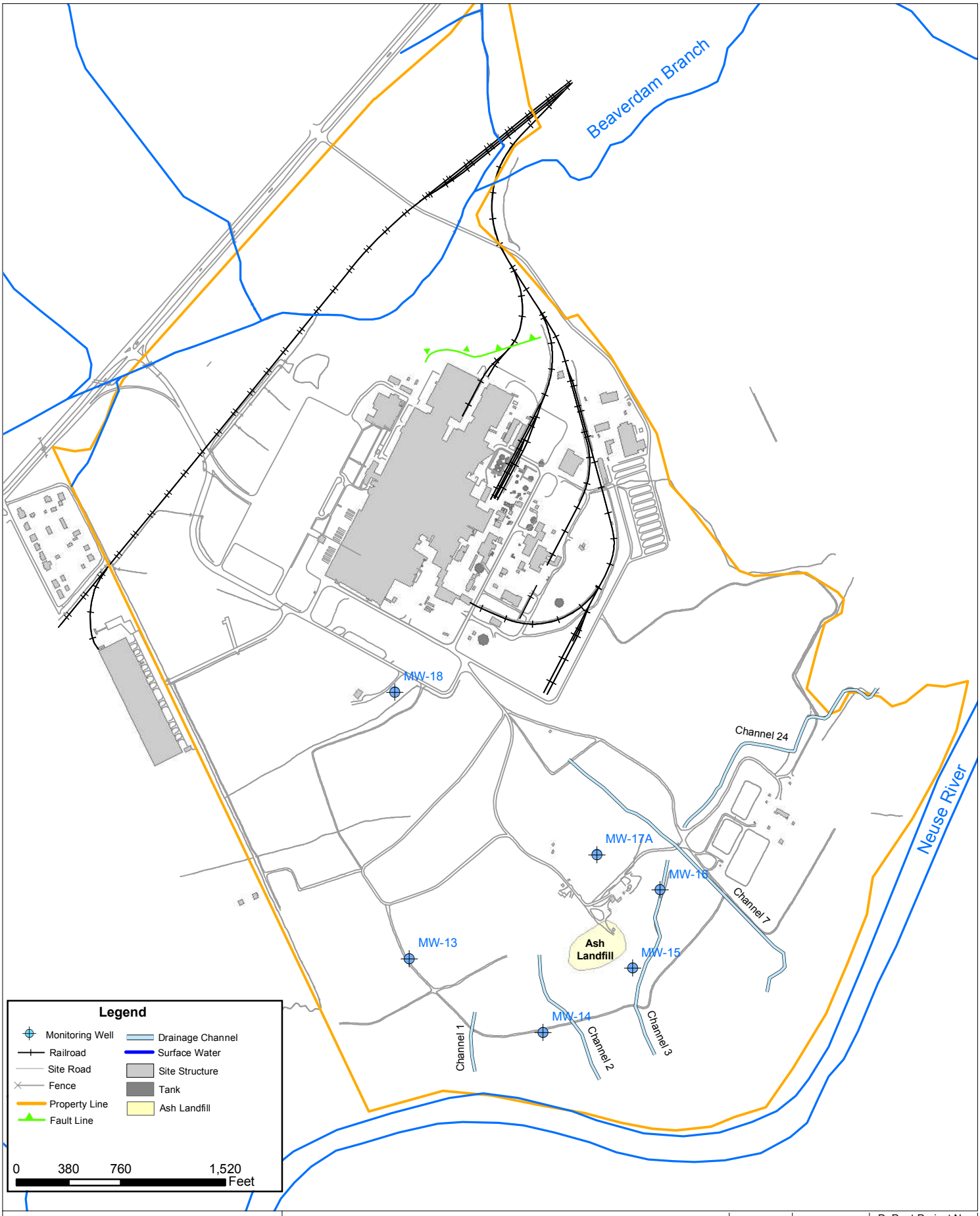

PARSONS

Parsons-Commercial Technology Group
4701 Hedgemore Dr.
Charlotte, NC 28209

TITLE:

Monitoring Well Location Map: Landfill Wells
2011 Combined Annual Monitoring Report
DuPont Kinston Plant
Kinston, North Carolina

Drawn: C. Oneal	Date: 7/20/2012	DuPont Project No.: 504337
Revision:	Figure No.: 3.1	Parsons Project No.: 445334.02011

File Name: G:/GIS/Kinston/Gis/Project_figures/LandfillReport_2010/Kin_MW_LOC_MAP.mxd

TABLES

Table 1.1
Groundwater Monitoring Program
DuPont Kinston Ash Landfill, RFI, and TCE Monitoring Wells
Kinston, North Carolina

Groundwater Sampling - May, 2011	
Ash Landfill Monitoring Wells	
Sample ID	**Target Analyte List**
MW-13, MW-14, MW-15, MW-16, MW-17A, MW-18	As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Zn, Hg, Alkalinity, Cl, F, Nitrate, Sulfate, TDS, TOC, TOX, COD
RFI Monitoring Wells	
MW-02, MW-10, MW-11, MW-14, MW-15, MW-16, MW-19, MW-20, MW-21, MW-23A, MW-25, MW-52, MW-56	1,4-Dioxane
MW-22	1,4-Dioxane, Acrolein, 1,1-Biphenyl, and Diphenyl Ether
TCE Monitoring Wells	
MW-27,MW-28, MW-29, MW-30A, MW-35, MW-36, MW-37, MW-38, MW-43, MW-44, MW-47, MW-57, MW-58, MW-59, MW-60, MW-61, BW-1, BW-2, BW-3, BW-4, BW-5	Trichloroethene, Vinyl Chloride, cis-1,2-Dichloroethene

Groundwater Sampling - November, 2011	
Ash Landfill Monitoring Wells	
Sample ID	**Target Analyte List**
MW-13, MW-14, MW-15, MW-16, MW-17A, MW-18	As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Zn, Hg, Alkalinity, Cl, F, Nitrate, Sulfate, TDS, TOC, TOX, COD
RFI Monitoring Wells	
MW-02, MW-10, MW-11, MW-14, MW-15, MW-16, MW-19, MW-20, MW-21, MW-22, MW-23A, MW-25, MW-52, MW-56	1,4-Dioxane
MW-22	1,4-Dioxane, Acrolein, 1,1-Biphenyl, and Diphenyl Ether
TCE Monitoring Wells	
MW-29, MW-30A, MW-35, MW-36, MW-37, MW-38, MW-43, MW-44, MW-47, MW-57, MW-58, MW-59, MW-60, MW-61	Trichloroethene, Vinyl Chloride, cis-1,2-Dichloroethene

Table 1.2
Water Quality Field Parameters: TCE Wells (May 2011)
DuPont Kinston TCE System
Kinston, North Carolina

SAMPLE (WELL ID)	DATE SAMPLED	TIME SAMPLED	WATER LEVEL (ft BTOC)	pH	TEMP (C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	REDOX (mV)	TURBIDITY (ntu)	Color	Odor
BW-01	5/20/2011	920	7.50	2.77	19.30	1.782	0.25	440.9	3.5	Clear	None
BW-02	5/20/2011	840	6.48	2.84	19.28	2.580	8.12	440.4	1.0	Clear	None
BW-03	5/20/2011	955	6.20	2.59	19.84	3.242	6.80	504.7	0.9	Clear	None
BW-04	5/20/2011	805	6.85	2.95	19.66	2.699	1.10	330.7	0.0	Clear	None
BW-05	5/20/2011	1050	6.45	2.46	20.37	3.402	3.88	541.1	0.0	Clear	None
MW-27	5/20/2011	1325	4.65	5.86	20.22	0.251	0.24	-68.6	5.6	Clear	None
MW-28	5/20/2011	1410	6.38	4.56	18.64	0.156	0.60	166.2	0.0	Clear	None
MW-29	5/20/2011	1510	4.15	5.13	20.24	0.293	1.30	106.9	0.0	Clear	None
MW-30A	5/19/2011	945	4.98	3.56	18.75	2.501	0.29	85.7	1.7	Clear	Chemical
MW-35	5/18/2011	1625	4.42	3.66	19.85	1.474	1.10	132.8	0.0	Clear	None
MW-36	5/19/2011	1630	17.95	4.31	15.98	0.196	2.27	75.9	0.5	Clear	None
MW-37	5/19/2011	1145	11.00	3.96	17.42	0.436	4.72	80.0	0.0	Clear	None
MW-38	5/19/2011	1512	28.20	3.79	19.10	0.212	5.99	131.7	2.1	Clear	None
MW-43	5/19/2011	1405	9.90	4.21	19.57	0.167	1.65	51.0	10.0	Clear	None
MW-44	5/19/2011	1435	9.82	5.34	19.85	0.214	7.01	61.1	1.1	Clear	None
MW-47	5/19/2011	1035	4.22	5.83	19.79	0.572	3.42	22.8	10.0	Clear	None
MW-57	5/19/2011	1550	12.38	5.69	18.35	0.277	1.64	40.7	0.0	Clear	None
MW-58	5/18/2011	1500	7.90	3.82	19.68	0.700	0.35	145.9	0.0	Clear	Metallic
MW-59	5/19/2011	835	7.78	3.80	18.74	1.878	0.27	79.2	0.3	Clear	None
MW-60	5/18/2011	1540	8.05	3.56	19.71	1.775	0.24	141.3	0.0	Clear	None
MW-61	5/19/2011	1110	11.95	4.23	17.47	0.376	1.53	54.5	0.0	Clear	None

Notes:

NM = not measured (DO meter did not function properly)

ft BTOC= feet below top of casing

C=degrees celsius

mS/cm=milliSiemens per centimeter; mg/l=milligrams per liter

mV=millivolts, ntu=national turbidity unit

Table 1.3
Water Quality Field Parameters: TCE Wells (November 2011)
DuPont Kinston TCE System
Kinston, North Carolina

SAMPLE (WELL ID)	DATE SAMPLED	TIME SAMPLED	WATER LEVEL (ft BTOC)	pH	TEMP (C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	REDOX (mV)	TURBIDITY (ntu)	Color	Odor
MW-29	11/8/2011	1330	3.79	5.45	22.84	0.246	1.36	144.5	6.1	clear	chemical
MW-30A	11/8/2011	940	4.28	4.03	21.22	2.045	0.91	161.0	43.2	clear	none
MW-35	11/8/2011	1620	3.35	4.03	22.03	1.162	0.82	423.6	7.5	clear	none
MW-36	11/10/2011	1515	17.31	4.63	19.37	0.174	1.57	38.1	13.1	clear	none
MW-37	11/9/2011	855	10.98	4.15	20.44	0.515	2.99	131.5	8.2	clear	none
MW-38	11/9/2011	1040	27.92	4.16	18.73	0.222	5.22	203.3	10.4	slightly cloudy	none
MW-43	11/9/2011	930	9.18	4.31	20.22	0.221	0.91	124.2	2.3	clear	none
MW-44	11/9/2011	1005	10.12	5.58	21.93	0.307	5.69	116.0	6.0	clear	none
MW-47	11/8/2011	1015	3.01	6.07	21.96	0.242	3.88	28.6	3.5	clear	none
MW-57	11/10/2011	1440	11.70	5.89	18.29	0.300	1.21	-9.5	7.9	clear	none
MW-58	11/8/2011	1240	7.36	4.31	21.60	0.718	0.43	318.9	6.5	clear	none
MW-59	11/8/2011	1420	7.24	4.04	22.51	1.849	0.20	255.9	5.9	clear	none
MW-60	11/8/2011	1505	7.52	3.88	22.77	1.707	0.21	304.2	9.2	clear	none
MW-61	11/9/2011	820	11.17	4.47	19.80	0.390	1.56	61.6	11.0	clear	none

Notes:
NM = not measured (DO meter did not function properly)
ft BTOC= feet below top of casing
C=degrees celsius
mS/cm=milliSiemens per centimeter; mg/l=milligrams per liter
mV=millivolts, ntu=national turbidity unit

Table 1.4
Monitoring Well Groundwater Elevation Data: TCE Wells (May 2011)
DuPont Kinston TCE System
Kinston, North Carolina

Monitor Well ID	Groundwater Elevation	TOC Elevation	Water Level
MW-27	58.76	63.41	4.65
MW-28	57.35	63.73	6.38
MW-29	58.56	62.71	4.15
MW-30A	60.18	65.16	4.98
MW-35	58.24	62.66	4.42
MW-36	29.27	47.22	17.95
MW-37	53.00	64.00	11.00
MW-38	28.94	57.14	28.20
MW-43	51.05	60.95	9.90
MW-44	50.72	60.54	9.82
MW-47	60.40	64.62	4.22
MW-57	28.22	40.60	12.38
MW-58	59.29	67.19	7.90
MW-59	59.35	67.13	7.78
MW-60	58.67	66.72	8.05
MW-61	54.51	66.46	11.95

Notes:
Water level is feet below TOC
All Elevations reference feet above mean sea level
TOC = Top of Casing

Table 1.5
Monitoring Well Groundwater Elevation Data: TCE Wells (November 2011)
DuPont Kinston TCE System
Kinston, North Carolina

Monitor Well ID	Groundwater Elevation	TOC Elevation	Water Level
MW-27	NM	63.41	NM
MW-28	NM	63.73	NM
MW-29	58.92	62.71	3.79
MW-30A	60.88	65.16	4.28
MW-35	59.31	62.66	3.35
MW-36	29.91	47.22	17.31
MW-37	53.02	64.00	10.98
MW-38	29.22	57.14	27.92
MW-43	51.77	60.95	9.18
MW-44	50.42	60.54	10.12
MW-47	61.61	64.62	3.01
MW-57	28.90	40.60	11.70
MW-58	59.83	67.19	7.36
MW-59	59.89	67.13	7.24
MW-60	59.20	66.72	7.52
MW-61	55.29	66.46	11.17

Notes:
Water level is feet below TOC
All Elevations reference feet above mean sea level
TOC = Top of Casing

Table 1.6
Summary of Analytical Results: TCE Wells
DuPont Kinston TCE System
Kinston, North Carolina

Monitor Well ID	Date	Analyte	Results (ug/L)
BW-1	5/20/2011	CIS-1,2 DICHLOROETHENE	217
		TRICHLOROETHENE	789
		VINYL CHLORIDE	<0.402
		IRON	17,800
BW-2	5/20/2011	CIS-1,2 DICHLOROETHENE	9.1
		TRICHLOROETHENE	83.4
		VINYL CHLORIDE	<0.402
		IRON	4,480
BW-3	5/20/2011	CIS-1,2 DICHLOROETHENE	21.1
		TRICHLOROETHENE	77.2
		VINYL CHLORIDE	<0.402
		IRON	16,300
BW-4	5/20/2011	CIS-1,2 DICHLOROETHENE	180
		TRICHLOROETHENE	2,480
		VINYL CHLORIDE	<0.402
		IRON	70,400
BW-5	5/20/2011	CIS-1,2 DICHLOROETHENE	<0.367
		TRICHLOROETHENE	2.46
		VINYL CHLORIDE	<0.402
		IRON	58,300
MW-27	5/20/2011	CIS-1,2 DICHLOROETHENE	<0.367
		TRICHLOROETHENE	<0.449
		VINYL CHLORIDE	<0.402
		IRON	49,300
MW-28	5/20/2011	CIS-1,2 DICHLOROETHENE	<0.367
		TRICHLOROETHENE	<0.449
		VINYL CHLORIDE	<0.402
		IRON	36.3
MW-29	5/20/2011	CIS-1,2 DICHLOROETHENE	4.46
		TRICHLOROETHENE	42.9
		VINYL CHLORIDE	<0.402
		IRON	6,690
	11/8/2011	CIS-1,2 DICHLOROETHENE	2.87
		TRICHLOROETHENE	18.8
		VINYL CHLORIDE	<0.537
MW-30A	5/19/2011	CIS-1,2 DICHLOROETHENE	77.1
		TRICHLOROETHENE	2,200
		VINYL CHLORIDE	2.07 J
		IRON	133,000
	11/8/2011	CIS-1,2 DICHLOROETHENE	129
		TRICHLOROETHENE	3,350
		VINYL CHLORIDE	4.57 J
MW-35	5/18/2011	CIS-1,2 DICHLOROETHENE	0.503 J
		TRICHLOROETHENE	4
		VINYL CHLORIDE	<0.402
		IRON	487 J
	11/8/2011	CIS-1,2 DICHLOROETHENE	0.554 J
		TRICHLOROETHENE	5.24
		VINYL CHLORIDE	<0.537

Table 1.6
Summary of Analytical Results: TCE Wells
DuPont Kinston TCE System
Kinston, North Carolina

Monitor Well ID	Date	Analyte	Results (ug/L)
MW-36	5/19/2011	CIS-1,2 DICHLOROETHENE	<0.367
		TRICHLOROETHENE	<0.449
		VINYL CHLORIDE	<0.402
		IRON	36.9 JB
	11/10/2011	CIS-1,2 DICHLOROETHENE	<0.367
		TRICHLOROETHENE	<0.449
		VINYL CHLORIDE	<0.537
MW-37	5/19/2011	CIS-1,2 DICHLOROETHENE	0.762 J
		TRICHLOROETHENE	5.93
		VINYL CHLORIDE	<0.402
		IRON	<9.4
	11/9/2011	CIS-1,2 DICHLOROETHENE	0.891 J
		TRICHLOROETHENE	7.79
		VINYL CHLORIDE	<0.537
MW-38	5/19/2011	CIS-1,2 DICHLOROETHENE	0.926 J
		TRICHLOROETHENE	1.82
		VINYL CHLORIDE	<0.402
		IRON	40.1 JB
	11/9/2011	CIS-1,2 DICHLOROETHENE	0.634 J
		TRICHLOROETHENE	1.79
		VINYL CHLORIDE	<0.537
MW-43	5/19/2011	CIS-1,2 DICHLOROETHENE	<0.367
		TRICHLOROETHENE	<0.449
		VINYL CHLORIDE	<0.402
		IRON	7,680
MW-44	5/19/2011	CIS-1,2 DICHLOROETHENE	<0.367
		TRICHLOROETHENE	<0.449
		VINYL CHLORIDE	<0.402
		IRON	<9.4
	11/9/2011	CIS-1,2 DICHLOROETHENE	<0.367
		TRICHLOROETHENE	<0.449
		VINYL CHLORIDE	<0.537
MW-47	5/19/2011	CIS-1,2 DICHLOROETHENE	24.5
		TRICHLOROETHENE	209
		VINYL CHLORIDE	<0.402
		IRON	43,400
	11/8/2011	CIS-1,2 DICHLOROETHENE	7.18
		TRICHLOROETHENE	51.5
		VINYL CHLORIDE	<0.537
MW-57	5/19/2011	CIS-1,2 DICHLOROETHENE	2.63
		TRICHLOROETHENE	3.4
		VINYL CHLORIDE	<0.402
		IRON	56.3 JB
	11/10/2011	CIS-1,2 DICHLOROETHENE	2.58
		TRICHLOROETHENE	2.96
		VINYL CHLORIDE	<0.537
MW-58	5/19/2011	CIS-1,2 DICHLOROETHENE	6.53
		TRICHLOROETHENE	57
		VINYL CHLORIDE	<0.402
		IRON	2,830

Table 1.6
Summary of Analytical Results: TCE Wells
DuPont Kinston TCE System
Kinston, North Carolina

Monitor Well ID	Date	Analyte	Results (ug/L)
MW-58	11/8/2011	CIS-1,2 DICHLOROETHENE	9.88
		TRICHLOROETHENE	81.4
		VINYL CHLORIDE	<0.537
MW-59	5/19/2011	CIS-1,2 DICHLOROETHENE	12.9
		TRICHLOROETHENE	84.1
		VINYL CHLORIDE	<0.402
		IRON	104,000
	11/8/2011	CIS-1,2 DICHLOROETHENE	10.7
		TRICHLOROETHENE	59.4
		VINYL CHLORIDE	<0.537
MW-60	5/18/2011	CIS-1,2 DICHLOROETHENE	7.56
		TRICHLOROETHENE	24.9
		VINYL CHLORIDE	0.804 J
		IRON	107,000 R
	11/8/2011	CIS-1,2 DICHLOROETHENE	9.44
		TRICHLOROETHENE	20.3
		VINYL CHLORIDE	1.11 J
MW-61	5/18/2011	CIS-1,2 DICHLOROETHENE	<0.367
		TRICHLOROETHENE	<0.449
		VINYL CHLORIDE	<0.402
		IRON	14.3 JB
	11/9/2011	CIS-1,2 DICHLOROETHENE	<0.367
		TRICHLOROETHENE	<0.449
		VINYL CHLORIDE	<0.537

Notes:
ug/L=micrograms per liter
mg/l=milligrams per liter
J = Analyte Present. Reported value may not be accurate or precise.
B = Analyte detected in blank sample
R = Unusable results. Analyte may or may note be present in the sample.
MW-27, MW-28, and BW-1 through BW-5 were not sampled in September as per CAP MOD.

Table 1.7
Historical TCE Concentrations
DuPont Kinston TCE System

Monitor Well ID	Jan-02	Apr-02	Jul-02	Oct-02	Apr-03	Oct-03	Apr-04	Oct-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	May-08	Nov-08	Apr-09	Oct-09	May-10	Sep-10	May-11	Nov-11
MW-27	<0.5	<0.5	<0.5	<0.5	<1.0	NS	<1.0	NS	<0.2	NS	<0.45	NS	<0.45	NS	<0.45	NS	NS	NS	ND	NS	< 0.449	NS
MW-28	NS	<0.5	NS	NS	0.6	NS	0.6	NS	1	NS	0.69 J	NS	1.1	NS	1.2	NS	NS	ND	ND	NS	< 0.449	NS
MW-29	17	17	NS	9.8	18	41	19	18	2.5	7.6	11	4.2	6.7	17	46	7.9	35.4	5.03	17.8	6.38	42.9	18.8
MW-30A	140	30	2700	2400	46	NS	1300	NS	2800	3300	4900	4200	2400	4600	3600	8900	3930	6230	2130	2910	2200	3350
MW-35	2	3.2	3.2	2.3	2.9	2.6	2.6	2.5	4.1	4.4	6.1	6.6	4.2	6	12	20	9.76	10.7	10.4	10.2	4.46	5.24
MW-36	NS	<0.5	NS	NS	<0.2	<0.2	1.1	0.3 J	<0.2	0.2 J	1.5	<0.45	1.8	1.5	<0.45	<0.45	NS	NS	ND	ND	< 0.449	< 0.449
MW-37	14	10	NS	21	6.6	7.9	7.6	12	8.1	9.9	11	8.4	10	7.9	3.6	8.3	6.09	9.21	3.97	8.21	5.93	7.79
MW-38	NS	2.9	NS	NS	4.3	2.4	3.1	1	1.9	1.7	3.7	1	4.4	1.9	2.6	0.78 J	1.74	ND	4.06	0.610 J	1.82	1.79
MW-43	NS	<0.5	NS	NS	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.45	<0.45	<0.45	NS	ND (0.45)	<0.45	NS	NS	ND	NS	< 0.449	< 0.449
MW-44	NS	<0.5	NS	NS	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	NS	NS	ND	ND	< 0.449	< 0.449
MW-47	280	560	NS	350	280	NS	1100	NS	1000	850	560	320	600	480	49	120	221	140	411	279	209	51.5
MW-57	7	7.6	NS	7.6	5.8	5.3	6.7	4	5.1	5.2	2.6	4.8	3.7	2.1	2.9	4.8	2.81	3.03	3.71	4.01	3.4	2.96
MW-58	NS	NS	NS	20	4.6	24	25	23	7.8	60	120	100	110	130	30	75	22.1	86.8	58.2	82.5	57	81.4
MW-59	NS	NS	NS	66	110	120	120	59	50	44	46	52	41	51	59	98	86.8	62.7	91.6	71.2	84.1	59.4
MW-60	NS	NS	NS	3.4	13	11	22	21	23	18	29	16	22	14	19	29	20.9	26.3	23.0	17.5	24.9	20.3
MW-61	NS	NS	NS	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.45	<0.45	<0.45	0.51 J	<0.45	<0.45	NS	NS	ND	ND	< 0.449	< 0.449
BW-1	8200	NS	NS	NS	5400	NS	2700	NS	3000	NS	1500	NS	1100	NS	1500	NS	569	2360	3050	NS	789	NS
BW-2	1300	NS	NS	NS	820	NS	410	NS	480	NS	720	NS	590	NS	600	NS	647	537	609	NS	83.4	NS
BW-3	920	NS	NS	NS	550	NS	550	NS	200	NS	130	NS	280	NS	68	NS	141	86.5	155	NS	77.2	NS
BW-4	6300	NS	NS	NS	NS	NS	5800	NS	2600	NS	3200	NS	3600	NS	2300	NS	711	3600	3770	NS	2480	NS
BW-5	5.4	NS	NS	NS	4.1	NS	4.7	NS	2.4	NS	2.1	NS	4.2	NS	2.6	NS	4.09	1.79	4.42	NS	2.46	NS

Notes:
NS = Not Sampled as per Corrective Action Plan (CAP)
Concentrations presented in micrograms per liter (ug/L)
< = concentration below indicated method detection limit (MDL)
J- Analyte Present. Reported value may not be accurate or precise.

checked by ____

Table 1.8
Historical cis 1,2-DCE Concentrations
DuPont Kinston TCE System
Kinston, North Carolina

Monitor Well ID	Jan-02	Apr-02	Apr-02	Jul-02	Oct-02	Apr-03	Oct-03	Apr-04	Oct-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	May-08	Nov-08	Apr-09	Oct-09	May-10	Sep-10	May-11	Nov-11
MW-27	<1	<1	NS	<1 U	<1 U	<1	NS	<1 UJ	NS	<0.2	NS	< 0.37	NS	< 0.37	NS	< 0.37	NS	NS	NS	ND	NS	< 0.367	NS
MW-28	NS	<1 U	NS	NS	NS	<0.2	NS	<0.2	NS	<0.2	NS	< 0.37	NS	< 0.37	NS	0.4 J	NS	NS	ND	ND	NS	< 0.367	NS
MW-29	1.3	<1 U	1.7	1.8	<1 U	1.5	4.5	2.1	1.8	<0.2	0.8	1.3	0.63 J	1.1	11	6.2	0.82 J	3.74	1.1	2.39	6.75	4.46	2.87
MW-30A	3.9	<1 U	NS	69	65	1.3	NS	39	NS	63	91	150	140	84	180	130	260	126	234	81.6	106	77.1	129
MW-35	<1 U	<1 U	NS	<1 U	<1 U	0.3	0.3 J	0.3 J	0.2 J	0.2 J	0.4 J	0.51 J	0.54 J	0.44 J	0.54 J	1.9	3.5	1.47	1.62	1.51	1.41	0.503 J	0.554 J
MW-36	2.6	<1 U	NS	<1 U	NS	<0.2	<0.2	0.4 J	<0.2	<0.2	0.1 J	0.53 J	< 0.37	1.4	1.4	< 0.37	< 0.37	NS	NS	ND	ND	< 0.367	<0.367
MW-37	1.4	1	1.1	1.7	2.4	0.8	1.1	1	1.4	0.9	1.2	1.7	1.2	1.8	0.99 J	0.57 J	1.3	0.886 J	1.39	0.557 J	0.941 J	0.762 J	0.891 J
MW-38	5.1	2.2	NS	1.8	NS	2.4	1.6	1.7	0.7 J	1.4	1.5	1.9	0.89 J	2.4	1.3	1.6	0.65 J	0.819	ND	1.90	0.372 J	0.926 J	0.634 J
MW-43	NS	<1 U	NS	NS	NS	<0.2	<0.2	<0.2	<0.2	<0.2	< 0.1)	< 0.37	< 0.37	< 0.37	NS	< 0.37	< 0.37	NS	NS	ND	NS	< 0.367	<0.367
MW-44	NS	<1 U	NS	NS	NS	<0.2	<0.2	<0.2 UJ	<0.2	<0.2	< 0.1)	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	NS	NS	ND	ND	< 0.367	<0.367
MW-47	NS	46	7	14	26	22	NS	83	NS	75	67	45	35	64	58	7.9	NS	27.4	20.7	65.2	46.5	34.5	7.18
MW-57	6.5	5.7	6.9	5.7	6.4	4.4	4.7	3.7 J	4.3	3.2	3.8	8.3	4.4	2.6	2.3	3.1	2.9	3.12	2.54	3.27	3.37	2.63	2.58
MW-58	NS	NS	NS	NS	NS	0.8	3.1	2.6 J	3.2	0.8	8.3	11	12	13	19	3.6	7.3	2.25	11	5.23	10.5	6.49	9.96
MW-59	NS	NS	NS	NS	NS	12	17	15 J	8.3	5.3	7.1	5	7.4	5.8	12	9.3	13	14.8	11	13.3	13.3	12.9	10.7
MW-60	NS	NS	NS	NS	1.6	2.3	2.8	3.6 J	8.2	16	16	14	19	16	19	14	8.6	14.4	9.98	10.9	8.66	7.56	9.44
MW-61	NS	NS	NS	NS	<1 U	<0.2	<0.2	<0.2 UJ	<0.2	<0.2	< 0.1)	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	NS	NS	ND	ND	< 0.367	<0.367
BW-1	970	NS	NS	NS	NS	1000	NS	610	NS	760	NS	350	NS	330	NS	490	NS	150	805	873	NS	217	NS
BW-2	110	NS	NS	NS	NS	82	NS	55	NS	53	NS	70	NS	81	NS	91	NS	94.1	86.8	96.5	NS	9.1	NS
BW-3	110	NS	NS	NS	NS	67	NS	65	NS	24	NS	19	NS	35	NS	15	NS	25.1	17.8	35.8	NS	21.1	NS
BW-4	330	NS	NS	NS	NS	NS	NS	350	NS	180	NS	210	NS	280	NS	180	NS	56.3	339	291	NS	180	NS
BW-5	<1 U	NS	NS	NS	NS	<0.2	NS	0.2 J	NS	<0.2	NS	< 0.37	NS	< 0.37	NS	< 0.37	NS	ND	ND	ND	NS	< 0.367	NS

Notes:
NS = Not Sampled as per Corrective Action Plan (CAP)
Concentrations presented in micrograms per liter (ug/L)
< = concentration below indicated method detection limit (MDL)
J- Analyte Present. Reported value may not be accurate or precise.

checked by ____

Table 1.9
Historical Vinyl Chloride Concentrations
DuPont Kinston TCE System
Kinston, North Carolina

Monitor Well ID	Jan-02	Apr-02	Apr-02	Jul-02	Oct-02	Apr-03	Oct-03	Apr-04	Oct-04	Apr-05	Oct-05	Apr-06	Oct-06	Apr-07	Oct-07	May-08	Nov-08	Apr-09	Oct-09	May-10	Sep-10	May-11	Nov-11
MW-27	< 1 U	< 1	NS	< 1 U	< 1 U	< 1	NS	< 1 UJ	NS	< 0.2	NS	ND (0.4)	NS	ND (0.4)	NS	ND (0.4)	NS	NS	NS	ND	NS	< 0.402	NS
MW-28	NS	< 1 U	NS	NS	NS	< 0.2	NS	< 0.2	< 0.2	< 0.2	NS	ND (0.4)	NS	ND (0.4)	NS	ND (0.4)	NS	NS	ND	ND	NS	< 0.402	NS
MW-29	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.1	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND	ND	ND	ND	< 0.402	< 0.537
MW-30A	< 1 U	< 1 U	NS	< 50 U	< 50 U	< 0.2	NS	< 4	NS	2.9	ND (10)	8.3	ND (20)	3.2	8.2	8.3	ND (100)	ND	ND	2.58	3.68 J	2.07 J	4.57 J
MW-35	< 1 U	< 1 U	NS	< 1 U	< 1 U	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.1	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	0.47 J	ND	ND	ND	ND	< 0.402	< 0.537
MW-36	< 1 U	< 1 U	NS	< 1 U	NS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.1	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	NS	NS	ND	ND	< 0.402	< 0.537
MW-37	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.1	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND	ND	ND	ND	< 0.402	< 0.537
MW-38	< 1 U	< 1 U	NS	< 1 U	NS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.1	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND	ND	ND	ND	< 0.402	< 0.537
MW-43	NS	< 1 U	NS	NS	NS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.1	ND (0.4)	ND (0.4)	ND (0.4)	NS	ND (0.4)	ND (0.4)	NS	NS	ND	NS	< 0.402	< 0.537
MW-44	NS	< 1 U	NS	NS	NS	< 0.2	< 0.2	< 0.2 UJ	< 0.2	< 0.2	< 0.1	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	NS	NS	ND	ND	< 0.402	< 0.537
MW-47	< 10 U	< 1 U	< 2 U	< 1 U	< 10 U	< 1	NS	< 4	NS	< 4	< 2	ND (4)	ND (4)	ND (4)	ND (4)	ND (0.4)	ND (0.8)	ND	ND	ND	ND	< 0.402	< 0.537
MW-57	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 0.2	< 0.2	< 0.2 UJ	< 0.2	< 0.2	< 0.1	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND	ND	ND	ND	< 0.402	< 0.537
MW-58	< 1 U	NS	NS	NS	NS	< 0.2	< 0.2	< 0.2 UJ	< 0.2	< 0.2	< 0.1	ND (0.8)	ND (0.8)	ND (0.8)	ND (2)	ND (0.4)	ND (0.4)	ND	ND	ND	ND	< 0.402	< 0.537
MW-59	< 1 U	NS	NS	NS	NS	< 0.2	< 0.2	< 0.2 UJ	< 0.2	< 0.2	< 0.1	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND	ND	ND	ND	< 0.402	< 0.537
MW-60	< 1 U	NS	NS	NS	NS	< 0.2	0.2 J	0.3 J	2	2.7	2.1	3	1.7 J	1.9 J	1.4 J	2	ND (0.4)	1.26 J	0.569 J	0.957 J	0.581 J	0.804 J	1.11 J
MW-61	< 1 U	NS	NS	NS	NS	< 0.2	< 0.2	< 0.2 UJ	< 0.2	< 0.2	< 0.1	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	NS	NS	ND	ND	< 0.402	< 0.537
BW-1	< 200 U	NS	NS	NS	NS	< 20	NS	12 J	NS	< 20	NS	ND (8)	NS	ND (8)	NS	5.4 J	NS	ND	ND	ND	NS	< 0.402	NS
BW-2	< 20 U	NS	NS	NS	NS	< 2	NS	< 2	NS	< 0.2	NS	ND (4)	NS	ND (4)	NS	ND (4)	NS	0.459 J	ND	ND	NS	< 0.402	NS
BW-3	< 20 U	NS	NS	NS	NS	< 2	NS	< 2	NS	< 1	NS	ND (0.8)	NS	ND (0.8)	NS	ND (0.8)	NS	ND	ND	ND	NS	< 0.402	NS
BW-4	< 100 U	NS	NS	NS	NS	NS	NS	< 20	NS	ND (10)	NS	< 20	NS	ND (20)	NS	ND (20)	NS	ND	20.2 J	ND	NS	< 20.1	NS
BW-5	< 1 U	NS	NS	NS	NS	< 0.2	NS	< 0.2	NS	< 0.2	NS	ND (0.4)	NS	ND (0.4)	NS	ND (0.4)	NS	ND	ND	ND	NS	< 0.402	NS

Notes:
NS = Not Sampled as per Corrective Action Plan (CAP)
Concentrations presented in micrograms per liter (ug/L)
< = concentration below indicated method detection limit (MDL)
J- Analyte Present. Reported value may not be accurate or precise.

checked by ____

Table 2.1
Water Quality Field Parameters: RFI Wells (May 2011)
DuPont Kinston RFI Monitoring Wells
Kinston, North Carolina

SAMPLE (WELL ID)	DATE SAMPLED	TIME SAMPLED	WATER LEVEL (ft BTOC)	pH	TEMP (C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	REDOX (mV)	TURBIDITY (ntu)	COLOR	ODOR
MW-2	5/18/2011	905	6.40	6.03	16.42	0.442	4.58	31.2	13.5	Clear	None
MW-10	5/17/2011	830	11.04	5.50	16.74	0.164	0.25	0.7	22.0	Clear	Slight Chemical
MW-11	5/17/2011	936	13.35	4.67	16.63	0.652	0.08	-6.0	7.3	Clear	Chemical
MW-14	5/16/2011	1550	6.95	5.72	16.04	0.303	1.08	6.3	2.7	Clear	Slight Chemical
MW-15	5/18/2011	950	5.75	6.55	16.88	1.603	0.22	-159.8	0.0	Clear	None
MW-16	5/18/2011	1220	6.65	5.95	15.29	0.514	0.20	-78.0	18.1	Clear	None
MW-19	5/17/2011	1050	5.70	5.48	15.94	0.206	0.42	38.2	83.4	Clear	None
MW-20	5/17/2011	1145	6.25	6.42	16.01	0.419	0.16	-71.4	51.2	Clear	None
MW-21	5/17/2011	1445	3.50	6.34	18.49	0.363	0.46	13.2	1.2	Clear	None
MW-22	5/18/2011	1050	6.10	6.73	15.98	0.656	0.18	-112.1	1.5	Clear	Chemical
MW-23A	5/17/2011	1710	7.30	5.24	16.23	0.174	0.58	7.0	0.5	Clear	Metallic
MW-25	5/17/2011	1525	4.75	5.21	19.80	0.159	5.33	73.1	0.8	Clear	None
MW-52	5/17/2011	1255	5.48	6.46	17.21	0.350	0.29	-23.2	0.1	Clear	None
MW-56	5/18/2011	847	4.80	6.06	16.03	0.383	0.25	-72.2	0.0	Clear	Slight Metallic

Notes:

ft BTOC= feet below top of casing
C=degrees celsius
mS/cm=millisiemens per centimeter; mg/l=milligra
ntu=national turbidity unit; mV= millivolts

Table 2.2
Water Quality Field Parameters: RFI Wells (November 2011)
DuPont Kinston RFI Monitoring Wells
Kinston, North Carolina

SAMPLE (WELL ID)	DATE SAMPLED	TIME SAMPLED	WATER LEVEL (ft BTOC)	pH	TEMP (C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	REDOX (mV)	TURBIDITY (ntu)	COLOR	ODOR
MW-2	11/10/2011	745	4.78	6.92	14.59	0.321	7.81	-16.3	10.3	clear	none
MW-10	11/10/2011	1355	9.33	5.74	19.79	0.223	0.21	-79.9	14.4	clear	strong
MW-11	11/10/2011	1315	11.70	4.90	19.71	0.732	0.15	-99.0	150.3	cloudy	strong
MW-14	11/7/2011	1550	3.72	6.31	17.55	0.251	0.35	-26.6	11.1	clear	none
MW-15	11/7/2011	1455	4.50	6.63	18.20	1.506	0.14	-143.4	20.7	clear	none
MW-16	11/8/2011	800	5.42	6.05	17.14	0.496	0.30	-90.6	31.4	clear	none
MW-19	11/10/2011	930	3.95	6.01	16.53	0.242	0.62	-64.8	62.6	clear	none
MW-20	11/10/2011	1015	5.20	6.68	17.26	0.467	0.21	-115.7	124.3	cloudy	strong
MW-21	11/9/2011	1255	2.48	6.59	16.87	0.520	0.51	-11.2	6.8	clear	Not Detected*
MW-22	11/9/2011	1440	5.94	6.82	18.90	0.806	0.24	-166.5	6.2	clear	Not Detected*
MW-23A	11/10/2011	840	5.98	5.43	16.89	0.145	0.83	-93.3	7.3	clear	none
MW-25	11/9/2011	1600	3.27	5.89	19.27	0.179	6.94	89.9	8.0	clear	none
MW-52	11/9/2011	1345	4.67	6.66	16.80	0.451	0.26	-50.8	10.0	clear	Not Detected*
MW-56	11/10/2011	1215	3.33	6.23	16.85	0.495	0.31	-89.5	32.6	clear	none

Notes:

ft BTOC= feet below top of casing
C=degrees celsius
mS/cm=millisiemens per centimeter; mg/l=milligrar
ntu=national turbidity unit; mV= millivolts
* Not detected because respirator was worn during sampling

Table 2.3
Monitoring Well Groundwater Elevation Data: RFI Wells (May 2011)
DuPont Kinston RFI Monitoring Wells
Kinston, North Carolina

Monitor Well ID	Groundwater Elevation	TOC Elevation	Depth to Water
MW-2	23.68	30.08	6.40
MW-10	55.49	66.53	11.04
MW-11	53.42	66.77	13.35
MW-14	25.73	32.68	6.95
MW-15	25.69	31.44	5.75
MW-16	29.30	35.95	6.65
MW-19	16.35	22.05	5.70
MW-20	16.15	22.40	6.25
MW-21	24.29	27.79	3.50
MW-22	25.75	31.85	6.10
MW-23A	23.97	31.27	7.30
MW-25	31.17	35.92	4.75
MW-52	25.02	30.50	5.48
MW-56	27.18	31.98	4.80

Notes:
Depth to water is feet below TOC
All elevations referenced in feet above mean sea level
TOC = Top of Casing

Table 2.4
Monitoring Well Groundwater Elevation Data: RFI Wells (November 2011)
DuPont Kinston RFI Monitoring Wells
Kinston, North Carolina

Monitor Well ID	Groundwater Elevation	TOC Elevation	Depth to Water
MW-2	25.30	30.08	4.78
MW-10	57.20	66.53	9.33
MW-11	55.07	66.77	11.70
MW-14	28.96	32.68	3.72
MW-15	26.94	31.44	4.50
MW-16	30.53	35.95	5.42
MW-19	18.10	22.05	3.95
MW-20	17.20	22.40	5.20
MW-21	25.31	27.79	2.48
MW-22	25.91	31.85	5.94
MW-23A	25.29	31.27	5.98
MW-25	32.65	35.92	3.27
MW-52	25.83	30.50	4.67
MW-56	28.65	31.98	3.33

Notes:
Depth to water is feet below TOC
All elevations referenced in feet above mean sea level
TOC = Top of Casing

Table 2.5
Summary of Analytical Results: RFI Wells (May, 2011)
DuPont Kinston RFI Monitoring Wells
Kinston, North Carolina

SAMPLE	DATE	ANALYTE	RESULT	NC 2L STD	UNIT	MDL	PQL	QUALIFIER
MW-02	5/18/2011	1,4-DIOXANE	50	3	UG/L	4.22	9.71	
MW-10	5/17/2011	1,4-DIOXANE	ND	3	UG/L	4.22	9.71	
MW-11	5/17/2011	1,4-DIOXANE	177	3	UG/L	21.1	48.5	
MW-14	5/16/2011	1,4-DIOXANE	6.59	3	UG/L	4.26	9.8	J
MW-15	5/18/2011	1,4-DIOXANE	493	3	UG/L	21.1	48.5	
MW-16	5/18/2011	1,4-DIOXANE	236	3	UG/L	41.8	96.2	
MW-19	5/17/2011	1,4-DIOXANE	ND	3	UG/L	4.18	9.62	
MW-20	5/17/2011	1,4-DIOXANE	20.3	3	UG/L	4.22	9.71	
MW-21	5/17/2011	1,4-DIOXANE	47.4	3	UG/L	4.22	9.71	
MW-22	5/18/2011	1,4-DIOXANE	30.7	3	UG/L	4.22	9.71	
		ACROLEIN	195	4*	UG/L	1.29	10	
		BIPHENYL	3,150	400	UG/L	60.7	485	
		DIPHENYL ETHER	9,920	100*	UG/L	81.2	971	
MW-23A	5/17/2011	1,4-DIOXANE	7.53	3	UG/L	4.22	9.71	J
MW-25	5/17/2011	1,4-DIOXANE	7.39	3	UG/L	4.22	9.71	J
MW-52	5/17/2011	1,4-DIOXANE	170	3	UG/L	8.37	19.2	
MW-56	5/18/2011	1,4-DIOXANE	42.7	3	UG/L	4.26	9.8	

Notes:
UG/L = Micrograms per Liter
ND = Non Detect
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
* Interim Maximum Allowable Concentration (IMAC)
J = Analyte present. Reported value may not be accurate or precise.

Table 2.6
Summary of Analytical Results: RFI Wells (November, 2011)
DuPont Kinston RFI Monitoring Wells
Kinston, North Carolina

SAMPLE	DATE	ANALYTE	RESULT	NC 2L STD	UNIT	MDL	PQL	QUALIFIER
MW-2	11/10/2011	1,4-DIOXANE	13.2	3	UG/L	0.344	9.62	
MW-10	11/10/2011	1,4-DIOXANE	0.972	3	UG/L	0.347	9.71	J
MW-11	11/10/2011	1,4-DIOXANE	45.9	3	UG/L	1.72	48.1	J
MW-14	11/7/2010	1,4-DIOXANE	0.684	3	UG/L	0.341	9.52	J
MW-15	11/7/2011	1,4-DIOXANE	325	3	UG/L	3.44	96.2	
MW-16	11/8/2010	1,4-DIOXANE	89.2	3	UG/L	1.72	48.1	
MW-19	11/10/2011	1,4-DIOXANE	ND	3	UG/L	0.344	9.62	
MW-20	11/10/2011	1,4-DIOXANE	6.09	3	UG/L	0.347	9.71	J
MW-21	11/9/2011	1,4-DIOXANE	8.08	3	UG/L	0.358	10	J
MW-22	11/9/2011	1,4-DIOXANE	11.7	3	UG/L	0.358	10	J
		ACROLEIN	14.2	4*	UG/L	3.78	10	J
		BIPHENYL	1,270	400	UG/L	24.4	100	
		DIPHENYL ETHER	7,660	100*	UG/L	273	1000	
MW-23A	11/10/2011	1,4-DIOXANE	1.76	3	UG/L	0.344	9.62	J
MW-25	11/9/2011	1,4-DIOXANE	3.52	3	UG/L	0.358	10	J
MW-52	11/9/2011	1,4-DIOXANE	23.7	3	UG/L	0.716	20	
MW-56	11/10/2011	1,4-DIOXANE	42.3	3	UG/L	0.688	19.2	

Notes:
UG/L = Micrograms per Liter
ND = Non Detect
NS = Not Sampled
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
* Interim Maximum Allowable Concentration (IMAC)
J = Analyte present. Reported value may not be accurate or precise.

Table 2.7
Summary of Historical 1,4-Dioxane Analytical Results: RFI Wells (January 2002 to November 2011)
DuPont Kinston RFI Monitoring Wells
Kinston, North Carolina

Sample Date	MW-02	MW-10	MW-11	MW-14	MW-15	MW-16	MW-19	MW-20	MW-21	MW-22	MW-23A	MW-25	MW-52	MW-56	Units
Jan-02	NS	7	470	82	86	NS	<5 [U]	9	NS	740	28	NS	NS	18	UG/L
Apr-02	NS	12	46	8	160	NS	<5 [U]	11	NS	1800	10	NS	NS	5	UG/L
Jul-02	NS	NS	160	24	190	NS	<5 [U]	11	NS	860	16	NS	NS	79	UG/L
Apr-03	7	4	18	<1	110	38	<1	5	NS	810	3	NS	NS	7	UG/L
Oct-03	6	5	160 J	4 J	210	50	2 J	6	NS	1800	5	NS	NS	13	UG/L
Apr-04	21	6	230	<1	280	82	9	37	NS	1700	4 J	7	NS	7	UG/L
Oct-04	9	5	160	7	300	85	6	20	NS	1300	2 J	7	NS	55	UG/L
Apr-05	11	2 J	150	5	150	86	6	65	NS	1700	2 J	6	NS	4 J	UG/L
Oct-05	<1	3 J	140	2 J	200	95	3 J	13	100	760	2 J	6	120	72	UG/L
Apr-06	11	3.8 J	200	1.6 J	310	110	6.2 J	20	240	2100	3 J	7.8 J	270	16	UG/L
Oct-06	<2	1.9 J	67 J	<1.6	430	120	2.7 J	25	240	1000	2 J	6.9 J	120	55	UG/L
Apr-07	17	2.8 J	<1500	2.1 J	350	110	8.4 J	61	210	3000	3 J	7.6 J	170	67	UG/L
Oct-07	NS	3.7 J	130 J	13 J	410	340	<1.3	16	150	1200	3.5 J	5.3 J	250	21	UG/L
May-08	12	3.5 J	230	2.5 J	400	92	2.2 J	21	150	230	3.6 J	11	220	58	UG/L
Nov-08	2.3 J	4.1 J	280	6.2 J	500 J	220 J	2 J	7.5 J	75	85	1.7 J	10	110	39	UG/L
Apr-09	27.9	5.54 J	476	6.83 J	386	140	4.59 J	19.7	76.1	69.4	6.21 J	10.1 J	335	49	UG/L
Oct-09	6.95 J	4.02 J	221	9.85	438	268	12.7	7.26 J	42.4	45.7 J	3.08 J	5.9 J	144	35.4	UG/L
May-10	88.8	1.33 J	96.6	NS	423	82.2	4.64 J	24	51.5	29.4	<0.624	6.47 J	142	113	UG/L
Sep-10	NS	8.22 J	31.2	NS	346	568	12	13.6	19	33	<4.31	6.27 J	104	52.2	UG/L
May-11	50	<4.22	177	6.59 J	493	236	<4.18	21.2	47.4	30.7	7.53 J	7.39 J	170	42.7	UG/L
Nov-11	13.2	0.972 J	45.9 J	0.684 J	325	89.2	<0.344	6.09 J	8.08 J	10.7	1.76 J	3.52 J	23.7	42.3	UG/L

Notes: UG/L = Micrograms per Liter
NS = Not Samples

Table 3.1
Water Quality Field Parameters: Landfill Wells (May 2011)
DuPont Kinston Landfill Sampling
Kinston, North Carolina

SAMPLE (WELL ID)	DATE SAMPLED	TIME SAMPLED	WATER LEVEL (ft BTOC)	pH	TEMP (C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	Redox (mV)	TURBIDITY (NTU)	Color	Odor
MW-13	5/16/2011	1325	6.63	5.36	17.63	0.463	0.39	77.0	1.3	Clear	Slight
MW-14	5/16/2011	1550	6.95	5.72	16.04	0.303	1.08	6.3	2.7	Clear	Slight Chemical
MW-15	5/18/2011	950	5.75	6.55	16.88	1.603	0.22	-159.8	0.0	Clear	None
MW-16	5/18/2011	1220	6.65	5.95	15.29	0.514	0.20	-78.0	18.1	Clear	None
MW-17A	5/16/2011	950	19.58	5.61	18.18	0.461	0.16	-80.8	0.0	Clear	Chemical
MW-18	5/16/2011	1425	5.63	5.06	15.80	0.117	0.92	95.7	1.5	Clear	None

Notes:

ft BTOC= feet below top of casing
C=degrees celsius
umhos/cm=micromhos per centimeter; mg/l=milligrams per liter
NTU=national turbidity unit; mV=millivolts

Table 3.2
Water Quality Field Parameters: Landfill Wells (November 2011)
DuPont Kinston Landfill Sampling
Kinston, North Carolina

SAMPLE (WELL ID)	DATE SAMPLED	TIME SAMPLED	WATER LEVEL (ft BTOC)	pH	TEMP (C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	Redox (mV)	TURBIDITY (NTU)	Color	Odor
MW-13	11/7/2011	1255	5.60	5.73	19.15	0.464	0.42	129.4	5.7	clear	none
MW-14	11/7/2011	1550	3.72	6.31	17.55	0.251	0.35	-26.6	11.1	clear	none
MW-15	11/7/2011	1455	4.50	6.63	18.20	1.506	0.14	-143.4	20.7	clear	none
MW-16	11/8/2011	800	5.42	6.05	17.14	0.496	0.30	-90.6	31.4	clear	none
MW-17A	11/7/2011	1210	10.73	6.07	21.43	0.536	0.08	-123.8	2.8	clear	strong
MW-18	11/7/2011	1345	3.42	5.13	18.52	0.181	2.39	170.0	7.5	clear	none

Notes:

ft BTOC= feet below top of casing
C=degrees celsius
umhos/cm=micromhos per centimeter; mg/l=milligrams per liter
NTU=national turbidity unit; mV=millivolts

Table 3.3
Monitoring Well Groundwater Elevation Data: Landfill Wells (May 2011)
DuPont Kinston Landfill Sampling
Kinston, North Carolina

Monitor Well ID	Groundwater Elevation	TOC Elevation	Depth to Water
MW-13	43.18	49.81	6.63
MW-14	25.73	32.68	6.95
MW-15	25.69	31.44	5.75
MW-16	29.30	35.95	6.65
MW-17A	54.87	66.45	11.58
MW-18	55.27	60.90	5.63

Notes:
Depth to water is feet below TOC
All elevations referenced in feet above mean sea level
TOC = Top of Casing

Table 3.4
Monitoring Well Groundwater Elevation Data: Landfill Wells (November 2011)
DuPont Kinston Landfill Sampling
Kinston, North Carolina

Monitor Well ID	Groundwater Elevation	TOC Elevation	Depth to Water
MW-13	44.21	49.81	5.60
MW-14	28.96	32.68	3.72
MW-15	26.94	31.44	4.50
MW-16	30.53	35.95	5.42
MW-17A	55.72	66.45	10.73
MW-18	57.48	60.90	3.42

Notes:
Depth to water is feet below TOC
All elevations referenced in feet above mean sea level
TOC = Top of Casing

Table 3.5
Analytical Detections (May, 2011)
DuPont Kinston Landfill Sampling
Kinston, North Carolina

DATE	WELL ID	ANALYTE	RESULT	QUALIFIER	UNIT
16-May-11	MW-13	ALKALINITY, TOTAL	155,000		UG/L
		CHEMICAL OXYGEN DEMAND (COD)	33,500		UG/L
		CHLORIDE	15,400		UG/L
		FLUORIDE	257	J	UG/L
		IRON	15.2	J	UG/L
		MANGANESE	32		UG/L
		NITRATE	104	J	UG/L
		TOTAL DISSOLVED SOLIDS	324,000		UG/L
		TOTAL ORGANIC CARBON	13,700		UG/L
		TOTAL ORGANIC HALOGEN	32.9	J	UG/L
16-May-11	MW-14	ALKALINITY, TOTAL	69100		UG/L
		CHLORIDE	14700		UG/L
		FLUORIDE	294	J	UG/L
		IRON	6100		UG/L
		MANGANESE	113		UG/L
		TOTAL DISSOLVED SOLIDS	186000		UG/L
		TOTAL ORGANIC CARBON	3730		UG/L
18-May-11	MW-15	1,4-DIOXANE	493		UG/L
		ALKALINITY, TOTAL	600,000		UG/L
		ARSENIC	16.3	J	UG/L
		BARIUM	34.9	J	UG/L
		CHEMICAL OXYGEN DEMAND (COD)	53,500		UG/L
		CHLORIDE	41,600		UG/L
		FLUORIDE	346	J	UG/L
		IRON	92,200		UG/L
		MANGANESE	335		UG/L
		MERCURY	0.0859	J	UG/L
		NITRATE	816		UG/L
		SULFATE	1820		UG/L
		TOTAL DISSOLVED SOLIDS	793,000		UG/L
		TOTAL ORGANIC CARBON	16,300		UG/L
		TOTAL ORGANIC HALOGEN	43.9	J	UG/L
18-May-11	MW-16	1,4-DIOXANE	236		UG/L
		ALKALINITY, TOTAL	120,000		UG/L
		ARSENIC	16.6	J	UG/L
		BARIUM	5.66	J	UG/L
		CHEMICAL OXYGEN DEMAND (COD)	20,200		UG/L
		CHLORIDE	15,600		UG/L
		FLUORIDE	372	J	UG/L
		IRON	60,300		UG/L
		MANGANESE	279		UG/L
		SULFATE	29,700		UG/L
		TOTAL DISSOLVED SOLIDS	287,000		UG/L
		TOTAL ORGANIC CARBON	8,110		UG/L
16-May-11	MW-17A	ALKALINITY, TOTAL	173,000		UG/L
		CHLORIDE	27,100		UG/L
		FLUORIDE	151	J	UG/L
		IRON	99,200		UG/L
		MANGANESE	209		UG/L
		MERCURY	0.077	J	UG/L
		TOTAL DISSOLVED SOLIDS	300,000		UG/L
		TOTAL ORGANIC CARBON	69,700		UG/L
		TOTAL ORGANIC HALOGEN	493	J	UG/L
16-May-11	MW-18	ALKALINITY, TOTAL	13,600	J	UG/L
		BARIUM	15.6	J	UG/L
		CHLORIDE	4010		UG/L
		FLUORIDE	336	J	UG/L
		MANGANESE	25.1		UG/L
		NITRATE	2010		UG/L
		TOTAL DISSOLVED SOLIDS	83,000		UG/L
		TOTAL ORGANIC CARBON	722	J	UG/L

Notes:
MG/L = milligrams per liter; UG/L = micrograms per liter
MDL = method detection limit; PQL = practical quantitation limit
J = in-house qualifier: Analyte present. Reported value may not be accurate or precise.
B = in-house qualifier: Not detected substantially above the level reported in the laboratory or field blanks.

Table 3.6
Analytical Detections (November, 2011)
DuPont Kinston Landfill Sampling
Kinston, North Carolina

DATE	WELL ID	ANALYTE	RESULT	QUALIFIER	UNIT
07-Nov-11	MW-13	ALKALINITY, TOTAL	125,000		UG/L
		BARIUM	10.1	J	UG/L
		CHEMICAL OXYGEN DEMAND (COD)	28,200	J	UG/L
		CHLORIDE	13,000	J	UG/L
		COPPER	2.13	J	UG/L
		FLUORIDE	277	J	UG/L
		MANGANESE	21.8		UG/L
		NITRATE	392	J	UG/L
		SILVER	2.11	J	UG/L
		SULFATE	56,000		UG/L
		TOTAL DISSOLVED SOLIDS	270,000		UG/L
		TOTAL ORGANIC CARBON	11,100		UG/L
		TOTAL ORGANIC HALOGEN	70.8		UG/L
11/7/2011	MW-14	ALKALINITY, TOTAL	59,400		UG/L
		ARSENIC	4.27	J	UG/L
		BARIUM	5.12	J	UG/L
		CHEMICAL OXYGEN DEMAND (COD)	2,480	J	UG/L
		CHLORIDE	7,900	J	UG/L
		COPPER	2.34	J	UG/L
		FLUORIDE	355	J	UG/L
		IRON	4,450		UG/L
		MANGANESE	105		UG/L
		NITRATE	335	J	UG/L
		SILVER	1.66	J	UG/L
		SULFATE	22,800		UG/L
		TOTAL DISSOLVED SOLIDS	135,000		UG/L
		TOTAL ORGANIC CARBON	3,790		UG/L
11/7/2011	MW-15	ALKALINITY, TOTAL	573,000		UG/L
		ARSENIC	16.5	J	UG/L
		BARIUM	60.6	J	UG/L
		CHEMICAL OXYGEN DEMAND (COD)	49,600	J	UG/L
		CHLORIDE	26,200	J	UG/L
		COPPER	1.87	J	UG/L
		FLUORIDE	352	J	UG/L
		IRON	82,800		UG/L
		MANGANESE	352		UG/L
		SILVER	1.84	J	UG/L
		SULFATE	2,070		UG/L
		TOTAL DISSOLVED SOLIDS	726,000		UG/L
		TOTAL ORGANIC CARBON	15,900		UG/L
		TOTAL ORGANIC HALOGEN	53.6		UG/L
11/8/2011	MW-16	ALKALINITY, TOTAL	95,200		UG/L
		ARSENIC	21.3		UG/L
		BARIUM	4.47	J	UG/L
		CHLORIDE	16,300	J	UG/L
		FLUORIDE	356	J	UG/L
		IRON	40,000		UG/L
		MANGANESE	329		UG/L
		SULFATE	54,100		UG/L
		TOTAL DISSOLVED SOLIDS	238,000		UG/L
		TOTAL ORGANIC CARBON	8,810		UG/L
		TOTAL ORGANIC HALOGEN	23.9	J	UG/L
07-Nov-11	MW-17A	ALKALINITY, TOTAL	165,000		UG/L
		ARSENIC	8.61	J	UG/L
		BARIUM	12.3	J	UG/L
		CHEMICAL OXYGEN DEMAND (COD)	134,000	J	UG/L
		CHLORIDE	27,000	J	UG/L
		COPPER	2.95	J	UG/L
		FLUORIDE	2,660	J	UG/L
		IRON	108,000		UG/L
		MANGANESE	252		UG/L
		SILVER	1.35	J	UG/L
		SULFATE	1,060		UG/L
		TOTAL DISSOLVED SOLIDS	295,000		UG/L
		TOTAL ORGANIC CARBON	53,400		UG/L
		TOTAL ORGANIC HALOGEN	734		UG/L
		ZINC	6.03	J	UG/L
07-Nov-11	MW-18	ARSENIC	4.18	J	UG/L
		BARIUM	25.6	J	UG/L
		CHLORIDE	3,630	J	UG/L
		FLUORIDE	360	J	UG/L
		MANGANESE	40		UG/L
		NITRATE	2,930		UG/L
		SILVER	2.16	J	UG/L
		SULFATE	40,200		UG/L
		TOTAL DISSOLVED SOLIDS	82,000		UG/L
		TOTAL ORGANIC CARBON	1,300		UG/L

Notes:
MG/L = milligrams per liter; UG/L = micrograms per liter
MDL = method detection limit; PQL = practical quantitation limit
J = in-house qualifier: Analyte present. Reported value may not be accurate or precise.
B = in-house qualifier: Not detected substantially above the level reported in the laboratory or field blanks.

Table 3.7
Summary of Historical Data: Landfill Wells (2002 to 2011)
DuPont Kinston Landfill Sampling
Kinston, North Carolina

WELL	SAMPLE DATE	ALKALINITY, TOTAL	COD	ARSENIC	BARIUM	CADMIUM	CHLORIDE	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MANGANESE	MERCURY	NITRATE	SELENIUM	SILVER	SULFATE	TDS	TOC	TOX	ZINC	UNITS
MW-13	16-Apr-02	NS	31.6 [J]	<0.0049 [U]	0.0266	<0.00094 [U]	21.3	<0.002 [U]	<0.0026 [U]	0.17	<0.035 [U]	<0.0089 [U]	0.0294	0.00013 [J]	0.2	<0.0048 [U]	<0.0014 [U]	67	175	7.6	0.072	0.0134 [J]	MG/L
MW-13	07-Oct-02	NS	42 [J]	<0.0049 [U]	0.0127	<0.00094 [U]	23.5	<0.002 [U]	<0.0026 [U]	0.21	<0.0349 [U]	<0.0089 [U]	0.0155	0.00015 [J]	0.042 [J]	<0.0048 [U]	<0.0014 [U]	42	185	11.1	0.048	0.0061 [J]	MG/L
MW-13	15-Apr-03	NS	20.5	<0.0049	0.0213	<0.00094	15	<0.002	<0.0026	0.15	<0.0349	<0.0089	0.0257	<0.000079	0.5 J	<0.0048	<0.0018	57.9	167	6.4	0.0645 J	0.0085	MG/L
MW-13	21-Oct-03	NS	34.8 J	<0.0049	0.016	<0.00087	17.7	<0.0022	<0.0021	0.16	<0.0453	<0.0093	0.0237	<0.00016	0.93	<0.0047	<0.0018	62.6	179	8.7 J	0.05 J	0.0055 J	MG/L
MW-13	05-Apr-04	NS	43.4 J	<0.0049	0.0173	<0.00087	18.9	<0.0022	<0.0021	0.16	<0.0453	<0.0093	0.029	<0.00016	0.5	<0.0047	<0.0018	61.9	197	9.1	<0.035	0.0066 B	MG/L
MW-13	11-Oct-04	NS	44.4 J	<0.0047	0.0116 B	<0.00076	22.7	<0.0025	<0.0027	0.16	<0.0495	<0.01	0.0186 B	0.000097 J	0.23 J	<0.0059	<0.002	58.9	231	12.1	0.047 J	<0.0048	MG/L
MW-13	04-Apr-05	NS	33.2 J	<0.0047	0.0214	<0.00076	18.7	<0.0025	<0.0027	0.14	<0.0495	<0.01	0.02	0.000065 B	0.28 J	<0.0059	<0.002	62.3	189	9.5	<0.035	0.0053 J	MG/L
MW-13	13-Oct-05	NS	37.7 J	<0.0093	0.0236	<0.00097	17.6	<0.0048	<0.0018	0.16 J	<0.0378	<0.0084	0.0214	<0.000062	0.35	<0.0094	0.0023 J	51.6	179	10.4	0.0487 B	0.0144 B	MG/L
MW-13	18-Apr-06	NS	35.1 J	<0.0027 R	0.011 J	<0.00022 R	19.3	<0.00094 R	0.0016 B	0.28 J	0.041 B	<0.0014 R	0.03 J	<0.000054	0.65	<0.0026 R	0.0023 B	60.1	236	11.7	0.048 J	0.014 B	MG/L
MW-13	18-Oct-06	NS	52.4	<0.0027	0.013 J	<0.00022	21.2	<0.00094	<0.00094	0.37 J	0.064 B	<0.0014	0.03	0.000091 B	0.48 J	<0.0026	<0.0022	55.7	269	13.9	0.046 J	0.013 B	MG/L
MW-13	18-Apr-07	NS	34.4 B	<0.0027	0.02 J	<0.00022	15.1 J	<0.00094	<0.00094	0.21 B	0.026 B	<0.0014	0.035	0.00012 J	0.82	<0.0026	<0.0022	31	198	9.2	0.0946	0.0075 B	MG/L
MW-13	23-Oct-07	NS	39.2 J	<0.0027	0.014 B	<0.00022	20.9 J	<0.00094	<0.00094	0.37 J	0.15 B	<0.0014	0.027	0.00023 B	<0.015	<0.0026	<0.0022	48.9 J	301	18.5	0.044 B	0.0095 J	MG/L
MW-13	13-May-08	NS	52.7	0.003 J	0.0079 J	<0.00022	17.8 J	<0.00094	<0.00094	0.29 J	<0.021	<0.0014	0.033	<0.00006	0.42 J	0.0036 J	<0.0022	41.1 J	246	15.6	0.05	0.011 B	MG/L
MW-13	05-Nov-08	NS	43.6 B	<0.0027	0.0029 J	<0.00022	15.6	<0.00094	0.0023 B	0.33 B	0.099 J	<0.0014	0.03	<0.000086	<0.015 UJ	<0.0026	<0.0022	51.1	291	13.6	0.065 B	0.0096 B	MG/L
MW-13	22-Apr-09	117	46.4	<0.00267	0.0081 J	0.0003 J	18.4 B	<0.000944	<0.000939	0.316 B	<0.0212	<0.0014	0.0317	<0.0000856	<0.0958	0.0029 J	<0.00218	56 J	252	14.7	0.057	0.0082 B	MG/L
MW-13	06-Oct-09	143	45.1	<0.00267	0.00808 J	<0.000224	17.1	<0.000944	<0.000939	0.423 B	<0.0212	<0.0014	0.0332	<0.000062	<0.0958	<0.00261	<0.00218	57	333	15.3	0.053 J	0.00169 J	MG/L
MW-13	19-May-10	150	48.5	<0.00267	0.00794 J	0.00026 J	15.7	0.00679 J	<0.000939	0.34 B	0.0262 J	<0.0014	0.046	0.0000991 J	<0.0958	<0.00261	<0.00218	53.4	303	14.8	0.0931	0.00233 J	MG/L
MW-13	14-Sep-10	204	55.3	0.0039 B	0.00814 J	0.00037 B	16.4 J	<0.000944	0.00219 B	0.373 B	0.0864 J	<0.0014	0.0364	<0.000062	<0.0958 UJ	0.00285 J	<0.00218	44.5 J	370	16.6	0.0663	0.00314 J	MG/L
MW-13	16-May-11	155	33.5	<0.0029	0.00677 B	<0.0016	15.4	<0.0029	<0.0018	0.257 J	0.0152 J	<0.0026	0.032	<0.000062	0.104 J	<0.00261	<0.0012	54.3 B	324	13.7	0.0329 J	<0.0029	MG/L
MW-13	07-Nov-11	125	28.2 J	<0.0029	0.0101 J	<0.0016	13 J	<0.0029	0.00213 J	0.277 J	<0.0094	<0.0026	0.0218	<0.000062	0.392 J	<0.00261	0.00211 J	56	270	11.1	0.0708	<0.0029	MG/L
MW-14	16-Apr-02	NS	27.2 [J]	<0.0049 [U]	0.0118	<0.00094 [U]	25.3	<0.002 [U]	<0.0026 [U]	0.11	<0.035 [U]	<0.0089 [U]	0.0045	<0.000079 [U]	<0.04 [U]	<0.0048 [U]	<0.0014 [U]	100	305	5.1	0.031 [J]	0.006 [J]	MG/L
MW-14	07-Oct-02	NS	18.1 [J]	<0.0049 [U]	0.0148	0.0013 [J]	16.1	<0.002 [U]	0.0069	0.22	3.45	<0.0089 [U]	0.139	<0.000079 [U]	<0.04 [U]	<0.0048 [U]	0.0014 [J]	102	398	4.6	0.11	0.0216	MG/L
MW-14	15-Apr-03	NS	13.9	<0.0049	0.0133	<0.00094	22.1	<0.002	<0.0026	0.084	0.232	<0.0089	0.0084	<0.000079	0.076	<0.0048	<0.0018	107	306	4	0.0155 J	0.0077	MG/L
MW-14	21-Oct-03	NS	18.5 J	<0.0049	0.01	<0.00087	19.8	<0.0022	<0.0021	0.14	4	<0.0093	0.0244	<0.00016	<0.2	<0.0047	<0.0018	74.8	265	4.5 B	<0.035	<0.0041	MG/L
MW-14	05-Apr-04	NS	16.6 J	<0.0049	0.0086	<0.00087	12.8	<0.0022	<0.0021	0.1	2.07	<0.0093	0.0118	<0.00016	<0.04	<0.0047	0.002 J	98.6	235	4	<0.035	<0.0041	MG/L
MW-14	11-Oct-04	NS	13.4 J	0.0056 J	0.0118 B	<0.00076	8.4	0.0026 J	0.0143 B	0.2	21.2	<0.01	0.134	<0.000028	<0.04	<0.0059	<0.002	68.2	278	3.5	<0.035	0.0278	MG/L
MW-14	04-Apr-05	NS	11.4 J	<0.0047	0.0092	<0.00076	15	<0.0025	<0.0027	0.085 J	0.231 B	<0.01	0.0071	0.000091 B	<0.04 UJ	<0.0059	<0.002	84.5	233	4 B	<0.035	<0.0048	MG/L
MW-14	13-Oct-05	NS	23 J	<0.0093	0.0169	<0.00097	27.5	<0.0048	<0.0018	0.061 J	<0.0378	<0.0084	0.021	<0.000062	<0.04	<0.0094	0.0027 J	146	341	6.2	0.0462 B	<0.0053	MG/L
MW-14	18-Apr-06	NS	15.6 J	0.0033 B	0.0036 J	<0.00022 R	13.8	<0.00094 R	0.0012 B	0.26 J	0.19 B	<0.0014 R	0.0075 J	<0.000027	0.26 J	<0.0026 R	0.0022 B	67.3	191	3	<0.0154	0.007 B	MG/L
MW-14	17-Oct-06	NS	9.8 B	<0.0027	0.0058 J	<0.00022	6.7 J	<0.00094	<0.00094	0.24 J	0.084 J	<0.0014	0.013 J	0.000097 B	0.45 J	<0.0026	<0.0022	54.7	174	2.6	<0.0154	0.015 B	MG/L
MW-14	18-Apr-07	NS	10.3 B	<0.0027	0.0067 B	<0.00022	11.6 J	<0.00094	<0.00094	0.23 B	0.057 B	<0.0014	0.0062 J	<0.00006	0.15 J	<0.0026	<0.0022	58.6	172	2.9	0.0149 J	0.004 B	MG/L
MW-14	24-Oct-07	NS	14.5 B	0.004 J	0.02 B	<0.00022	NS	0.0015 J	0.0012 J	NS	3.1	<0.0014	0.16	<0.00006	NS	<0.0026	<0.0022	NS	NS	4.4	<0.0154	0.01 J	MG/L
MW-14	13-May-08	NS	6.1 J	<0.0027	<0.0005	<0.00022	17.7 J	<0.00094	<0.00094	0.24 J	<0.021	<0.0014	<0.0002	<0.00006	0.31 J	<0.0026	<0.0022	69.5 J	214	3.6	0.023 J	<0.0016	MG/L
MW-14	05-Nov-08	NS	10.7 B	0.0027 J	0.0093 J	<0.00022	9.7 J	<0.00094	0.0022 B	0.46 B	1.8	<0.0014	0.3	<0.000086	0.29 J	<0.0026	<0.0022	41.5	243	3.6	0.024 B	0.012 B	MG/L
MW-14	21-Apr-09	78.4	13.5	<0.00267	0.0066 J	<0.000224	19.3	<0.000944	<0.000939	0.385 B	0.714	<0.0014	0.0607	<0.0000856	<0.0958	<0.00261	<0.00218	64.4 J	207	3.55	<0.0077	0.003 J	MG/L
MW-14	06-Oct-09	203	4.22 B	0.00535 J	0.0118 J	0.00023 J	14.8	<0.000944	0.00112 J	0.438 B	1.84	<0.0014	0.197	<0.000062	<0.0958	<0.00261	<0.00218	76.3	358	4.29	0.047 J	<0.00156	MG/L
MW-14	19-May-10	66.3	8.99 B	<0.00267	0.00747 J	<0.000224	23.6	<0.000944	<0.000939	0.341 B	0.396	<0.0014	0.0621	<0.000062	0.181 J	<0.00261	<0.00218	92.8	168	3.15	0.0189 J	<0.00156	MG/L
MW-14	14-Sep-10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0185 J	NS	MG/L
MW-14	16-May-11	69.1	5.02 B	0.00449 B	0.00388 B	<0.0016	14.7	<0.0029	<0.0018	0.294 J	6.1	<0.0026	0.113	<0.000062	<0.0958	<0.00261	<0.0012	47.8 B	186	3.73	<0.017 R	<0.0029	MG/L
MW-14	07-Nov-11	59.4	2.48 J	0.00427 J	0.00512 J	<0.0016	7.9 J	<0.0029	0.00234 J	0.355 J	4.45	<0.0026	0.105	<0.000062	0.335 J	<0.00261	0.00166 J	22.8	135	3.79	<0.018	<0.0029	MG/L
MW-15	16-Apr-02	NS	58	0.0213	0.0183	<0.00094 [U]	26.6	0.002 [J]	<0.0026 [U]	0.23	61.3	<0.0089 [U]	0.291	<0.000079 [U]	<0.04 [U]	<0.0048 [U]	<0.0014 [U]	<6 [U]	578	15.1	0.097	<0.0049 [U]	MG/L
MW-15	07-Oct-02	NS	53	0.012	0.0319	<0.00094 [U]	28	<0.002 [U]	<0.0026 [U]	0.22	39.9	<0.0089 [U]	0.429	<0.000079 [U]	<0.04 [U]	<0.0048 [U]	0.0017 [J]	<7.5 [U]	708	14.8	0.094	0.0057 [J]	MG/L
MW-15	15-Apr-03	NS	50.9	0.0147	0.02	<0.00094	17.9	<0.002	<0.0026	0.23	59.5	<0.0089	0.293	<0.000079	<0.04 R	<0.0048	<0.0018	<7.5	527	11.9	0.0219 J	<0.0049	MG/L
MW-15	21-Oct-03	NS	51.1 J	0.0103	0.012	<0.00087	32.7	<0.0022	<0.0021	0.21	39.2	<0.0093	0.237	<0.00016	<0.4	<0.0047	<0.0018	<6	640	10.7 J	0.08 J	<0.0041	MG/L
MW-15	05-Apr-04	NS	65.4	0.0067 J	0.0174	<0.00087	33.7	<0.0022	<0.0021	0.21	62.8	<0.0093	0.326	<0.00016	<0.04	<0.0047	<0.0018	<3	669	13.5	<0.035	<0.0041	MG/L
MW-15	11-Oct-04	NS	54	0.0593	0.0337	<0.00076	31.1	<0.0025	<0.0027	0.28	48.3	<0.01	0.443	<0.000028	<0.04	<0.0059	<0.002	<15	690	14.1	<0.035	<0.0048	MG/L
MW-15	04-Apr-05	NS	47.8 J	<0.0047	0.014	<0.00076	21.2	<0.0025	<0.0027	0.17	41.1	<0.01	0.241	0.000091 B	<0.04 UJ	<0.0059	<0.002	<7.5	606	12.2	0.0581 J	<0.0048	MG/L
MW-15	13-Oct-05	NS	54.7	<0.0093	0.0332	<0.00097	42.3	<0.0048	0.0057 J	0.25 J	19.4	0.0103 J	0.267	<0.000062	0.12 J	<0.0094	0.0045 J	<3	651	13.8	0.0831 B	0.011 B	MG/L
MW-15	18-Apr-06	NS	37.5 J	0.01 B	0.023 J	<0.00022 R	34.2	0.0014 J	0.0016 B	0.19 J	43.2 J	<0.0014 R	0.29 J	<0.000054	<0.027	<0.0026 R	0.0027 B	3.6	673	12.7	0.029 J	0.0016 B	MG/L
MW-15	17-Oct-06	NS	45	0.014 J	0.047 J	<0.00022	33.1 J	<0.00094	<0.00094	0.61 J	52.9	<0.0014	0.54	0.000062 B	<0.015	<0.0026	<0.0022	1.1	742	13.2	NS	0.02 B	MG/L
MW-15	18-Apr-07	NS	48.5 B	0.0086 J	0.026 J	<0.00022	32.6 J	<0.00094	<0.00094	<0.078	53.1	<0.0014	0.3	<0.00006	<0.015	<0.0026	<0.0022	3.2	734	12.1	0.0214 J	0.0044 B	MG/L
MW-15	24-Oct-07	NS	35.8 B	0.027	0.07 J	0.0017 J	31.3	0.015	0.017 J	<0.078	87	<0.0014	0.52	0.000094 J	<0.015 UJ	<0.0026	<0.0022	<0.13	703	13.2	0.026 J	0.038 J	MG/L
MW-15	13-May-08	NS	32.5	0.031	0.027 J	<0.00022	24.4 J	<0.00094	<0.00094	0.21 J	43.6	<0.0014	0.27	<0.00006	<0.015 UJ	0.0063 J	<0.0022	5.6	627	12.6	0.039	0.0058 B	MG/L
MW-15	05-Nov-08	NS	37.1 B	0.01 J	0.032 J	<0.00022	29.7	0.0016 J	0.002 B	0.4 B	26.4	0.0016 B	0.29	<0.000086	0.43 J	<0.0026	0.0038 B	2.4 J	740	11.1	0.034 B	0.0073 B	MG/L
MW-15	21-Apr-09	661	49.5	0.011 J	0.058 J	0.0011 J	41.4	<0.000944	<0.000939	0.57 B	56	<0.0014	0.402	<0.0000856	<0.0958	<0.00261	<0.00218	18.9 J	730	14.7	0.031	0.0066 J	MG/L
MW-15	06-Oct-09	676	49.9	0.0152 J	0.0685 J	0.00076 J	33.2	0.00712 J	0.00174 J	0.665 B	65.4	0.00158 J	0.467	<0.000062	<0.0958	<0.00261	<0.00218	3.83	715	14.9	0.034 J	0.00327 J	MG/L
MW-15	19-May-10	528	51.3	0.0142 J	0.0425 J	<0.000224	34.5	<0.000944	<0.000939	0.401 B	77.4	<0.0014	0.402	<0.000062	<0.0958	<0.00261	<0.00218	2.95	594	14.6	0.125	<0.00156	MG/L
MW-15	14-Sep-10	492	27.3	0.0477	0.0455 J	0.00028 B	29.1 J	0.0118	0.00258 B	0.342 B	30.4	<0.0014	0.219	<0.000062	<0.0958 UJ	<0.00261	<0.00218	2.17	622	10.7	0.0493	0.0128 J	MG/L
MW-15	18-May-11	600	53.5	0.0163 J	0.0349 J	<0.0016	41.6	<0.0029	<0.0018	0.346 J	92.2	<0.0026	0.335	0.0000859 J	0.816	<0.00261	<0.0012	1.82	793	16.3	0.0439 J	<0.0029	MG/L
MW-15	07-Nov-11	573	49.6 J	0.0165 J	0.0606 J	<0.0016	26.2 J	<0.0029	0.00187 J	0.352 J	82.8	<0.0026	0.352	<0.000062	<0.107	<0.00261	0.00184 J	2.07	726	15.9	0.0536	<0.0029	MG/L
MW-16	16-Apr-02	NS	46.8 [J]	0.0332	0.009	<0.00094 [U]	15.2	<0.002 [U]	<0.0026 [U]	0.2	59.2	<0.0089 [U]	0.188	<0.000079 [U]	<0.04 [U]	<0.0048 [U]	<0.0014 [U]	21	303	9.2	0.06	0.0709	MG/L
MW-16	07-Oct-02	NS	51	0.0193	0.01	<0.00094 [U]	15.9	<0.002 [U]	<0.0026 [U]	0.21	66.6	<0.0089 [U]	0.398	<0.000079 [U]	<0.04 [U]	<0.0048 [U]	0.0014 [J]	<7.5 [U]	236	12.7	0.052	<0.0049 [U]	MG/L
MW-16	15-Apr-03	NS	27	0.0394	0.0218	<0.00094	14.7	<0.002	<0.0026	0.22	68.2	<0.0089	0.215	<0.000079	<0.04 R	<0.0048	0.0035	37.5	238	7.1	0.0273	<0.0049	MG/L

Table 3.7
Summary of Historical Data: Landfill Wells (2002 to 2011)
DuPont Kinston Landfill Sampling
Kinston, North Carolina

WELL	SAMPLE DATE	ALKALINITY, TOTAL	COD	ARSENIC	BARIUM	CADMIUM	CHLORIDE	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MANGANESE	MERCURY	NITRATE	SELENIUM	SILVER	SULFATE	TDS	TOC	TOX	ZINC	UNITS
MW-16	21-Oct-03	NS	34.8 J	0.0407	0.0188	<0.00087	12.8	<0.0022	<0.0021	0.21	74.5	<0.0093	0.247	<0.00016	<2	<0.0047	<0.0018	33.8	262	8.5 J	<0.035	<0.0041	MG/L
MW-16	05-Apr-04	NS	48.3 J	0.0264	0.0126	<0.00087	11	<0.0022	<0.0021	0.21	73.7	<0.0093	0.247	<0.00016	<0.04	<0.0047	<0.0018	17	287	9.4	<0.035	<0.0041	MG/L
MW-16	11-Oct-04	NS	39.6 J	0.0408	0.0092 B	<0.00076	10.3	<0.0025	<0.0027	0.22	54.3	<0.01	0.211	0.000062 J	<0.04	<0.0059	<0.002	<7.5	299	9.5	<0.035	<0.0048	MG/L
MW-16	04-Apr-05	NS	35.6 J	0.019	0.0101	0.0011 J	13	<0.0025	<0.0027	0.17	5.98	<0.01	0.216	0.000091 B	<0.04 UJ	<0.0059	<0.002	<7.5	298	8.7	0.0431 J	<0.0048	MG/L
MW-16	13-Oct-05	NS	37.7 J	0.0297	0.005 B	<0.00097	10.5	<0.0048	<0.0018	0.24 J	49.5	<0.0084	0.177	<0.000062	<0.04 UJ	<0.0094	0.0037 J	<3	248	9.8	0.0594 B	0.0267 B	MG/L
MW-16	18-Apr-06	NS	19.1 J	0.027 J	0.013 J	<0.00022 R	16.8	0.0013 J	0.0018 B	0.33 J	59.6 J	<0.0014 R	0.2 J	<0.000027 UJ	<0.027	<0.0026 R	0.0033 B	21.8	245	7.4	0.018 J	<0.0016 R	MG/L
MW-16	17-Oct-06	NS	29.2	0.033	0.0057 J	<0.00022	10.5 J	<0.00094	<0.00094	0.32 J	56.8	<0.0014	0.2	0.000075 B	<0.015	0.0046 J	<0.0022	7.1	276	7.7	0.022 J	0.011 B	MG/L
MW-16	18-Apr-07	NS	48.5 B	0.026	0.011 B	<0.00022	13.4 J	<0.00094	<0.00094	0.23 B	63.7	<0.0014	0.23	<0.00006	<0.015	<0.0026	<0.0022	16.9	260	7.3	0.028 J	0.0042 B	MG/L
MW-16	23-Oct-07	NS	27.7 B	0.019 J	0.022 B	<0.00022	12.4 J	<0.00094	<0.00094	0.4 J	59.4	<0.0014	0.21	0.0001 B	<0.015	<0.0026	<0.0022	16.6 J	292	11	0.033 B	0.008 B	MG/L
MW-16	13-May-08	NS	24.7	0.053	0.0066 J	<0.00022	16.6 J	0.0011 J	<0.00094	0.33 J	57	<0.0014	0.22	0.000066 J	<0.015 UJ	0.0052 J	<0.0022	48.8 J	327	8	0.02 J	0.0039 B	MG/L
MW-16	05-Nov-08	NS	31.5 B	0.015 J	0.0027 J	<0.00022	16.9	<0.00094	0.0015 B	0.42 B	55.7	0.0044 B	0.34	<0.000086	0.62 J	<0.0026	<0.0022	35.6	285	8.3	0.032 B	0.0086 B	MG/L
MW-16	21-Apr-09	82.7	29.8	0.0261	0.0136 J	0.001 J	30.1	<0.000944	<0.000939	0.273 B	66.2	<0.0014	0.315	<0.0000856	<0.0958	<0.00261	<0.00218	95.3 J	305	8.2	0.033	0.006 J	MG/L
MW-16	06-Oct-09	156	30.8	0.0134 J	0.0136 J	0.00045 J	18.6	0.00365 J	<0.000939	0.459 B	54	<0.0014	0.231	<0.000062	<0.0958	<0.00261	<0.00218	22.4	240	9.54	0.027 J	<0.00156	MG/L
MW-16	19-May-10	108	30.8 B	0.0247	0.0197 J	<0.000224	16.7	0.00114 J	<0.000939	0.335 B	57.1	<0.0014	0.282	<0.000062	<0.0958	<0.00261	<0.00218	56.1	218	8.14	0.0701	<0.00156	MG/L
MW-16	14-Sep-10	154	46	0.0232	0.0364 J	<0.000224	16.1 J	0.00171 J	0.00152 B	0.35 B	89.8	<0.0014	0.322	<0.000062	<0.0958 UJ	<0.00261	<0.00218	3.52	220	11.4	0.0748	<0.00156	MG/L
MW-16	18-May-11	120	20.2	0.0166 J	0.00566 J	<0.0016	15.6	<0.0029	<0.0018	0.372 J	60.3	<0.0026	0.279	<0.000062	<0.107	<0.00261	<0.0012	29.7	287	8.11	<0.017 R	<0.0029	MG/L
MW-16	08-Nov-11	95.2	20.5 B	0.0213	0.00447 J	<0.0016	16.3 J	<0.0029	<0.0018	0.356 J	40	<0.0026	0.329	<0.000062	<0.107	<0.00261	0.00208 B	54.1	238	8.81	0.0239 J	<0.0029	MG/L
MW-17A	16-Apr-02	NS	1210	0.0144	0.0548	<0.00094 [U]	50	0.0033 [J]	0.0032 [J]	0.081 [J]	198	<0.0089 [U]	0.303	<0.000079 [U]	<0.04 [U]	0.0079 [J]	<0.0014 [U]	<3 [U]	654	330	103	0.0174 [J]	MG/L
MW-17A	07-Oct-02	NS	5310	0.0292	0.0794	<0.00094 [U]	76	0.0151	0.0091	0.063 [J]	572	<0.0089 [U]	0.777	<0.000079 [U]	<0.04 [U]	0.0299	<0.0014 [U]	<7.5 [U]	1380	159 [J]	1.68	0.0299	MG/L
MW-17A	15-Apr-03	NS	1340	0.0102	0.0375	0.0012	54.7	0.0036	<0.0026	0.064	185	<0.0089	0.339	<0.000079	<0.04 R	<0.0048	<0.0018	<3	711	286	73.6	0.0118	MG/L
MW-17A	21-Oct-03	NS	891 J	0.0156	0.0331	0.002 J	82.3	0.006	<0.0021	0.06 J	185	<0.0093	0.28	<0.00016	<2	<0.0047	<0.0018	17.6	649	213 J	1.1	0.005 J	MG/L
MW-17A	05-Apr-04	NS	1670	0.0084 J	0.0293	<0.00087	80.8	0.0083	<0.0021	0.084 J	227	<0.0093	0.467	<0.00016	<0.04	0.0064 J	<0.0018	10.5	794	484	58.1 J	<0.0041	MG/L
MW-17A	11-Oct-04	NS	806	0.015	0.0225	<0.00076	63.7	0.003 J	<0.0027	0.062 J	147	<0.01	0.29	<0.000028	<0.04	<0.0059	<0.002	1.8 J	433	209	4.57	0.0115 J	MG/L
MW-17A	04-Apr-05	NS	977 J	0.0166	0.0101	0.0027 J	55.4	0.0039 J	<0.0027	0.062 J	17.2	<0.01	0.346	0.00012 B	<0.04 UJ	<0.0059	<0.002	10.5	550	326	49.9	<0.0048	MG/L
MW-17A	13-Oct-05	NS	990	0.0114 J	0.0218	<0.00097	38.7	0.0075 J	<0.0018	0.081 J	181	<0.0084	0.311	<0.000062	<0.04 UJ	<0.0094	0.0029 J	<3	467	291	0.922 J	<0.0053	MG/L
MW-17A	19-Apr-06	NS	280 J	0.01 J	0.004 J	<0.00022 UJ	43.5	0.0023 B	0.028 J	6.7	95.3 J	<0.0014 UJ	0.18 J	<0.000027	0.25 J	0.0032 B	0.0027 B	3.8	316	82.4	0.678	0.12 B	MG/L
MW-17A	18-Oct-06	NS	81.9	0.0058 J	0.006 B	<0.00022	18.2	0.001 J	0.0035 J	2.2 J	83.7	<0.0014	0.17	0.00012 B	<0.015 UJ	0.004 J	<0.0022	11.1	271	43.6	0.292	0.036 B	MG/L
MW-17A	18-Apr-07	NS	2060 B	0.01 J	0.01 B	<0.00022	99.3 J	0.0046 J	0.0053 J	18.5 J	209	<0.0014	0.44	0.000087 J	<0.015	0.0061 J	<0.0022	0.58 J	730	386	28.8 J	0.043 J	MG/L
MW-17A	23-Oct-07	NS	2010 J	0.024	0.026 J	0.0022 J	170	0.0096 J	0.007 J	45.2	343	<0.0014	0.6	<0.00006	0.17 B	<0.0026	<0.0022	1.6	1010	719	4.19	0.18	MG/L
MW-17A	13-May-08	NS	440	0.087	0.035 J	<0.00022	49.9 J	0.0041 J	0.0043 J	9.1 J	133	0.0037 J	0.28	0.00016 J	<0.015 UJ	0.014 J	<0.0022	10.9	520	165	1.48	<0.0016	MG/L
MW-17A	05-Nov-08	NS	2040 J	0.024	0.025 J	<0.00022	60.2	0.0067 J	0.0034 B	<0.78	309	0.016	0.56	<0.000086	0.44 J	0.0045 J	0.0085 B	4.5 J	811	619	3.25 B	0.011 B	MG/L
MW-17A	22-Apr-09	104	200	0.0055 J	0.0076 J	0.0021 J	18.1 J	<0.000944	0.0047 J	3.4 J	97.7	<0.0014	0.173	<0.0000856	<0.0958	<0.00261	<0.00218	4.56 J	246	43.3	0.38	0.0271 J	MG/L
MW-17A	06-Oct-09	228	767	0.0169 J	0.0206 J	0.00143 J	39.4	0.0134	0.00206 J	16.4	158	0.00357 J	0.28	<0.000062	<0.0958	0.00407 J	<0.00218	13.2	463	247	1.5	<0.00156	MG/L
MW-17A	19-May-10	167	290 B	0.00904 J	0.0158 J	<0.000224	43.8	0.0023 J	0.00221 J	9.54	134	<0.0014	0.248	0.000112 J	<0.0958	<0.00261	<0.00218	1.81	422	104	1.52	0.00328 J	MG/L
MW-17A	14-Sep-10	229	746	0.0177 B	0.0338 J	<0.000224	45.4 J	0.00511 J	0.0158 J	11.4	170	0.0024 J	0.33	<0.000062	<0.0958 UJ	<0.00261	<0.00218	2.49 J	466	204	0.805	0.0685	MG/L
MW-17A	16-May-11	173	301 B	0.00494 B	0.00794 B	<0.0016	27.1	<0.0029	<0.0018	0.151 J	99.2	<0.0026	0.209	0.000077 J	<0.0958	<0.00261	<0.0012	2.1 B	300	69.7	0.493 J	<0.0029	MG/L
MW-17A	07-Nov-11	165	134 J	0.00861 J	0.0123 J	<0.0016	27 J	<0.0029	0.00295 J	2.66 J	108	<0.0026	0.252	<0.000062	<0.107	<0.00261	0.00135 J	1.06	295	53.4	0.734	0.00603 J	MG/L
MW-18	16-Apr-02	NS	16.3 [J]	<0.0049 [U]	0.0191	<0.00094 [U]	4.5	<0.002 [U]	<0.0026 [U]	0.16	<0.035 [U]	<0.0089 [U]	0.0358	<0.000079 [U]	2.76	<0.0048 [U]	<0.0014 [U]	46	114	3.2	0.111	0.035	MG/L
MW-18	08-Oct-02	NS	<8.8 [U]	<0.0049 [U]	0.0138	<0.00094 [U]	3.7	0.0024 [J]	<0.0026 [U]	0.36	<0.0349 [U]	<0.0089 [U]	0.025	<0.000079 [U]	2.69	<0.0048 [U]	<0.0014 [U]	22.6	93	0.95 [J]	<0.014 [U]	0.0086 [J]	MG/L
MW-18	15-Apr-03	NS	<8.8	<0.0049	0.0173	<0.00094	4.4	<0.002	<0.0026	0.21	<0.0349	<0.0089	0.028	<0.000079	2.5 J	<0.0048	<0.0018	31.4	99	1.4	<0.007	0.0128	MG/L
MW-18	21-Oct-03	NS	<8.2	<0.0049	0.0108	<0.00087	4.1	<0.0022	<0.0021	0.4	<0.0453	<0.0093	0.0241	<0.00016	1.3	<0.0047	<0.0018	23.8	78	4.5 B	<0.035	0.0067 J	MG/L
MW-18	05-Apr-04	NS	<8.2	<0.0049	0.0157	<0.00087	4	<0.0022	0.0106	0.28	<0.0453	<0.0093	0.0296	<0.00016	2.6 J	<0.0047	<0.0018	25.1	82.5	1.3 B	<0.035	0.0043 B	MG/L
MW-18	11-Oct-04	NS	<9.7	<0.0047	0.016	<0.00076	4.1	<0.0025	<0.0027	0.36	<0.0495	<0.01	0.0307 B	<0.000028	2.4 J	0.0059 J	<0.002	27	97	0.52 J	<0.035	0.0061 J	MG/L
MW-18	04-Apr-05	NS	<9.7	<0.0047	0.0253	<0.00076	4.9	<0.0025	<0.0027	0.13	<0.0495	<0.01	0.0279	0.000091 B	1.8 J	<0.0059	<0.002	48.2	124	3.2 B	<0.035	<0.0048	MG/L
MW-18	13-Oct-05	NS	<12.8	<0.0093	0.0403	<0.00097	4.6	<0.0048	<0.0018	0.25 J	<0.0378	<0.0084	0.0635	<0.000062	3.3 J	<0.0094	<0.002	49.3	115	2.4	<0.035	0.0055 B	MG/L
MW-18	19-Apr-06	NS	5.7 J	<0.0027 UJ	0.016 J	<0.00022 UJ	3.9	<0.00094 UJ	0.0011 B	0.34 B	0.14 B	<0.0014 UJ	0.036 J	0.000036 J	2.4	<0.0026 UJ	0.0023 B	30.2	81	0.8 J	<0.0154 UJ	0.004 B	MG/L
MW-18	18-Oct-06	NS	8.1 B	<0.0027	0.02 J	<0.00022	3.9 J	<0.00094	<0.00094	0.5 J	0.068 B	<0.0014	0.039	0.000078 B	2.3 J	<0.0026	<0.0022	24.6	103	0.5 J	<0.0154	0.021 B	MG/L
MW-18	18-Apr-07	NS	5.4 B	<0.0027	0.044 J	<0.00022	3.6	<0.00094	<0.00094	0.3 B	0.087 B	<0.0014	0.093	0.000061 J	5	<0.0026	<0.0022	49.1	117	1.3	<0.0154	0.0091 B	MG/L
MW-18	23-Oct-07	NS	4.7 B	<0.0027	0.026 J	<0.00022	3.7	<0.00094	<0.00094	0.41 J	0.47	<0.0014	0.049	<0.00006	2.3	0.003 J	<0.0022	32.7 J	94	0.79 J	<0.0385	0.0085 B	MG/L
MW-18	13-May-08	NS	<1.7	0.0042 J	0.019 J	<0.00022	3.6 J	<0.00094	<0.00094	0.36 J	0.067 J	<0.0014	0.029	<0.00006	2.2 J	<0.0026	<0.0022	24 J	74	0.76 B	<0.0077	0.018 J	MG/L
MW-18	05-Nov-08	NS	<1.7 UJ	0.0028 J	0.013 J	<0.00022	3.6 J	<0.00094	0.0022 B	0.56 B	<0.021	<0.0014	0.029	<0.000086	2 J	<0.0026	<0.0022	22.3	90	0.42 J	<0.0154	0.012 B	MG/L
MW-18	22-Apr-09	13.6	5.65 J	<0.00267	0.0201 J	<0.000224	4.24 J	<0.000944	<0.000939	0.288 B	0.0217 J	<0.0014	0.0324	<0.0000856	2.73 J	<0.00261	<0.00218	32.1 J	82	0.648 J	<0.0077	0.0108 J	MG/L
MW-18	06-Oct-09	20.8	6.27 B	0.0032 J	0.028 J	0.00056 J	3.43	<0.000944	<0.000939	0.303 B	0.0261 J	<0.0014	0.0445	<0.000062	2.36	0.00287 J	<0.00218	49.6	128	2.36	<0.015	<0.00156	MG/L
MW-18	19-May-10	10.1 B	6.27 B	<0.00267	0.0287 J	<0.000224	3.12	<0.000944	<0.000939	0.38 B	0.0657 J	<0.0014	0.059	<0.000062	2.6	<0.00261	<0.00218	46.5	79	0.916 J	0.0213 J	0.00199 J	MG/L
MW-18	14-Sep-10	9.65 B	13.4 B	0.00278 B	0.0489 J	0.00028 B	3.65 J	<0.000944	0.00183 B	0.302 B	0.0432 J	<0.0014	0.0679	<0.000062	2.34 J	<0.00261	<0.00218	48.7 J	97	1.13	<0.017	0.00191 J	MG/L
MW-18	16-May-11	13.6 J	<2.46	<0.0029	0.0156 J	<0.0016	4.01	<0.0029	<0.0018	0.336 J	<0.0094	<0.0026	0.0251	<0.000062	2.01	<0.00261	<0.0012	24.4 B	83	0.722 J	<0.017 R	<0.0029	MG/L
MW-18	07-Nov-11	<20	<2.46	0.00418 J	0.0256 J	<0.0016	3.63 J	<0.0029	<0.0018	0.36 J	<0.0094	<0.0026	0.04	<0.000062	2.93	<0.00261	0.00216 J	40.2	82	1.3	<0.018	<0.0029	MG/L

Notes:
MG/L = milligrams per liter
J = in-house qualifier: Analyte present. Reported value may not be accurate or precise.
B = in-house qualifier: Not detected substantially above the level reported in the laboratory or field blanks

APPENDIX A
LABORATORY ANALYTICAL DATA

(MAY AND NOVEMBER 2011)