Fourth Five-Year Review Report
Charles Macon Lagoon and Drum Storage Site
Cordova, Richmond County, North Carolina
US EPA ID: NCD 980840409

Prepared for
United States Environmental Protection Agency
Region 4
Atlanta, Georgia
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Prepared by the
State of North Carolina
Department of Environment & Natural Resources

Approved by:

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4/28/15
Date

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LIST OF ACRONYMS

AOC	Administrative Order on Consent
ARAR	Applicable or Relevant and Appropriate Requirement
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
COC	Contaminant of Concern
CRQL	Contract Required Quantitation Limit
CWA	Clean Water Act
DCE	Dichloroethene
ESD	Explanation of Significant Difference
FS	Feasibility Study
FYR	Five-Year Review
IC	Institutional Control
MCL	Maximum Contaminant Level
MDSG	Macon Dockery Site Group
MW	Monitoring Well
NC 2L	North Carolina Classifications and Water Quality Standards, Subchapter 2L
NCAC	North Carolina Administrative Code
NC DENR	North Carolina Department of Environment and Natural Resources
NCP	National Contingency Plan
NCDWA	North Carolina Drinking Water Act
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
O&M	Operation and Maintenance
OU	Operable Unit

PAH	Polycyclic Aromatic Hydrocarbon
PCE	Tetrachloroethene
PCOR	Preliminary Close-Out Report
ppb	Parts per Billion
ppm	Parts per Million
PRP	Potentially Responsible Party
RAO	Remedial Action Objective
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RG	Remediation Goal
RI	Remedial Investigation
ROD	Record of Decision
RPM	Remedial Project Manager
SOW	Statement of Work
SR	State Road
SVE	Soil Vapor Extraction
TBC	To Be Considered
TCE	Trichloroethene
UAO	Unilateral Administrative Order
USC	United States Code
µg/L	Microgram per Liter or ppb
US EPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

The Charles Macon Lagoon and Drum Storage Site (the Site) operated as a waste oil recycling and antifreeze manufacturing facility from 1979 to 1982. The Site is located in Cordova, Richmond County, North Carolina. The Site is comprised of two non-contiguous, independently owned parcels of land: a tract owned by relatives and heirs of Charles Macon and a tract owned by relatives and heirs of John Dockery.

From 1979 to 1982, Mr. Charles Macon operated a waste oil reclamation and antifreeze manufacturing facility at the Macon property. Waste oils were collected in eleven unlined lagoons, nine above ground tanks, and two tankers on the Macon property and in one unlined lagoon on the Dockery property. During a 1980 Site Inspection, drums were discovered on both properties in various stages of deterioration.

The United States Environmental Protection Agency initiated a removal at the Macon property in November 1983. Drummed waste, reusable oil and calcium hydroxide flare charges were removed from the property. Oil and hydrocarbon sludges remaining in the lagoons were solidified, removed, and properly disposed off-site. The lagoons were then filled, graded, and seeded with grass. All lagoons were excavated and backfilled with the exception of Lagoon 10. Lagoon 10 received five truckloads of solidified sludge from Lagoon 7, boiler fly ash, crushed empty drums, and other miscellaneous debris. Lagoon 10 was then capped with a synthetic liner and a three-foot thick clay cover. Removal operations on the Dockery property began in January 1984. Hazardous materials in this portion of the property were stored in one unlined surface impoundment and in 55-gallon drums. Immediate removal activities at both properties were completed January 17, 1984.

The EPA completed an investigation at the Site between February and March 1985. Based on the results of this investigative effort, the Site was finalized on the National Priorities List (NPL) on July 22, 1987. In April 1988, the EPA entered into an Administrative Order on Consent (AOC) with the Potentially Responsible Parties (PRPs). The Remedial Investigation/Feasibility Study (RI/FS) was started in April 1988 and completed in September 1991. Sampling revealed volatile organic compounds (VOCs) and inorganic compounds in both the soil and groundwater.

The Record of Decision (ROD) for the Site was signed on September 30, 1991, and amended on June 1, 1994. The remedial actions for the Charles Macon Lagoon and Drum Storage Site are: soil vapor extraction (SVE) of soils in Lagoon 7; off-site disposal of Lagoon 10 contents (as stated in the ROD amendment); dismantling of the vessels (tanks, tankers, vats, etc.) and off-site disposal of vessel contents; and groundwater extraction, treatment (via air stripping and filtration), and discharge (to Solomon's Creek or an infiltration gallery). The 1991 ROD stated that contaminated soil in Lagoon 10 would be remediated through bioremediation. However, based on data gathered regarding the nature of the waste within Lagoon 10, the ROD was amended in June 1994 to provide for excavation and off-site disposal of Lagoon 10 waste materials. Remedial activities at Lagoon 10 began in June 1994 and were completed in November 1994. The SVE system installed in the area of Lagoon 7 was to remediate vadose zone soils beneath the former lagoon. The SVE system became fully operational in February 1996. Four separate systems to remediate the groundwater were constructed for the following areas: Macon Source Area; Upper/Lower Macon; Upper Dockery; and, Lower Dockery. All four of the

groundwater treatment systems became fully operational in February 1996. An Explanation of Significant Differences (ESD) was signed on December 17, 2009 to document a final decision to include institutional controls (ICs) in the form of groundwater use restrictions as part of the groundwater remedy for the Site.

This is the fourth Five-Year Review for the Charles Macon Lagoon and Drum Storage Site. The triggering action for this review is the signing date of the previous Five-Year Review report, May 11, 2010. The Five-Year Review for the Site is a policy review. A policy review is conducted when "upon completion of the remedial action, no hazardous substances, pollutants, or contaminants will remain on-site above levels that allow for unlimited use and unrestricted exposure, but requires more than five years to complete" (US EPA Comprehensive Five-Year Review Guidance, June 2001, Section 1.2.2). According to documents, the Site Inspection and interviews with the EPA, the exposure pathways to contaminated soil and groundwater have been mitigated. The remedies at the Charles Macon Lagoon and Drum Site are currently protective of human health and the environment in the short-term because soil contamination was remediated through source removal and soil vapor extraction, and groundwater contamination is being remediated by extraction, treatment, and discharge to infiltration galleries. Currently, no human exposure pathways exist to contaminated groundwater. However, in order for the remedies to be protective in the long-term, institutional controls are required to ensure long-term protectiveness.

FIVE-YEAR REVIEW SUMMARY FORM

SITE IDENTIFICATION		
Site Name: Charles Macon Lagoon and Drum Storage Site		
EPA ID: NCD **980840409**		
Region: 4	**State:** NC	**City/County:** Cordova, Richmond County

SITE STATUS	
NPL Status: Final	
Multiple OUs? No	**Has the site achieved construction completion?** 11 / 06 / 1996

REVIEW STATUS
Lead agency: US EPA **If "Other Federal Agency" was selected above, enter Agency name:**
Author name (Federal or State Project Manager): David Mattison / Stephanie Grubbs
Author affiliation: NC DENR
Review period: 11 / 1 / 2014 – 5 / 11 / 2015
Date of site inspection: 12 / 2 / 2014
Type of review: Policy
Review number: 4 (fourth)
Triggering action date: 5 / 11 / 2010
Due date *(five years after triggering action date)*: 5 / 11 / 2015

Five-Year Review Summary Form (continued)

Issues/Recommendations				
OU(s) without Issues/Recommendations Identified in the Five-Year Review:				
None				
Issues and Recommendations Identified in the Five-Year Review:				
OU(s): 01	**Issue Category:** Institutional Controls			
	Issue: Institutional Controls have not been implemented.			
	Recommendation: Implement permanent land use restrictions or other appropriate institutional controls at the Site.			
Affect Current Protectiveness	**Affect Future Protectiveness**	**Implementing Party**	**Oversight Party**	**Milestone Date**
No	Yes	EPA/State	EPA	05/11/16

Sitewide Protectiveness Statement

Protectiveness Determination:	*Addendum Due Date:*
Short-Term Protective	Not Applicable

Protectiveness Statement:
The remedies at the Charles Macon Lagoon and Drum Site are currently protective of human health and the environment in the short-term because soil contamination was remediated through source removal and soil vapor extraction, and groundwater contamination is being remediated by extraction, treatment, and discharge to infiltration galleries. Currently, no human exposure pathways exist to contaminated groundwater. However, in order for the remedies to be protective in the long-term, institutional controls are required to ensure long-term protectiveness.

Environmental Indicators

- Current human exposures at the Site are under control.
- Current groundwater migration is under control.

Are Necessary Institutional Controls in Place?

☐All ☐Some ☒None

Has EPA Designated the Site as Sitewide Ready for Anticipated Use?

☐Yes ☒No

Has the Site Been Put into Reuse?

☐Yes ☒No

1.0 Introduction

The purpose of conducting a Five-Year Review (FYR) is to determine whether the remedy implemented at a Site is protective of human health and the environment. The methods, findings, and conclusions of this review are documented in the FYR report. In addition, FYR reports identify issues found during the review, if any, and identify recommendations to address them.

The EPA prepares FYRs pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Section 121 and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). CERCLA Section 121 states:

If the President selects a remedial action that results in any hazardous substances, pollutants, or contaminants remaining at the site, the President shall review such remedial action no less often than each five years after the initiation of such remedial action to assure that human health and the environment are being protected by the remedial action being implemented. In addition, if upon such review it is the judgment of the President that action is appropriate at such site in accordance with section [104] or [106], the President shall take or require such action. The President shall report to the Congress a list of facilities for which such review is required, the results of all such reviews, and any actions taken as a result of such reviews.

The EPA interpreted this requirement further in the National Oil and Hazardous Substances Pollution Contingency Plan (NCP); Title 40 Code of Federal Regulations (CFR) §300.430(f)(4)(ii) states:

If a remedial action is selected that results in hazardous substances, pollutants, or contaminants remaining at the site above levels that allow for unlimited use and unrestricted exposure, the lead agency shall review such action no less often than every five years after the initiation of the selected remedial action.

The North Carolina Department of Environment and Natural Resources (NC DENR), Division of Waste Management, Superfund Section, on behalf of the EPA, has conducted a FYR of the Potentially Responsible Party (PRP)-financed cleanup implemented at the Charles Macon Lagoon and Drum Storage Site (Macon Dockery Site or Site) (US EPA ID# NCD 980840409). The review was conducted from November 2014 through May 2015, and the methods, findings, conclusions, and significant issues found during the review are documented in this FYR report. This FYR was performed in a manner consistent with the latest EPA Comprehensive FYR Guidance (US EPA, 2001).

The Site consists of one operable unit (OU). The remedial action provides remediation of contaminated groundwater and contaminated soil. As stated in the 1991 Record of Decision (ROD) and as amended in the 1994 ROD Amendment, the remedy for soil and groundwater contamination consisted of soil vapor extraction (SVE) of soils in Lagoon 7; off-site disposal of soils in Lagoon 10; dismantling of the vessels (tanks, tankers, vats, etc.) and off-site disposal of vessel contents; and groundwater extraction, treatment (via air stripping and filtration), and discharge (to Solomon's Creek or an infiltration gallery).

The purpose of this FYR is to evaluate the remedy at the Site and to determine if the action remains protective of human health and the environment. More specifically, the purpose is:

- To confirm that the remedies, as specified in the 1991 ROD and subsequent 1994 ROD Amendment, remain effective at protecting human health and the environment (i.e., the remedies are operating and functioning as designed);
- To evaluate whether the clean-up levels specified in the RODs remain protective of human health and the environment; and
- To determine if any other information has come to light that could call into question the protectiveness of the remedy.

The triggering action for this policy review is the signing date of the Third FYR Report, May 11, 2010. As stated in the 1991 ROD, "The goal of this remedial action is to restore groundwater to its beneficial use as a drinking water source. Based on information obtained during the Remedial Investigation (RI) and on a careful analysis of all remedial alternatives, the EPA and the State of North Carolina believe that the selected remedy will achieve this goal."

The next FYR for the Charles Macon Lagoon and Drum Storage Site will be due within five years of the signature/approval date of this FYR.

2.0 Site Chronology

Table 1 lists the site chronology for selected events for the Site.

Table 1: Site Chronology

Event	Date
Initial discovery of the Site	November 1, 1983
US EPA conducted initial soil removal at the Macon property	November 23, 1983
US EPA conducted a removal of hazardous materials at the Dockery property	January 9, 1984
Preliminary assessment completed	March 27, 1985
Site inspection completed	March 31, 1986
US EPA proposed the Site for inclusion on the National Priorities List (NPL)	January 22, 1987
Site finalized on the NPL	July 22, 1987
Administrative Order on Consent signed	April 13, 1988
Removal Assessment completed	September 30, 1991
Combined Remedial Investigation and Feasibility Study (RI/FS) completed	September 30, 1991
Record of Decision (ROD) signed	September 30, 1991
US EPA issued an Unilateral Administrative Order (UAO)	June 22, 1992
Remedial Design completed	June 28, 1994
ROD Amendment signed	June 1, 1994
On-site construction initiated (RA start)	June 28, 1994
Remedial Action construction finished. System operational	February 1996
Superfund Preliminary Close-Out Report (PCOR) complete	November 6, 1996
First FYR completed	September 26, 2000
SVE system suspended	December 2, 2002
Lower Dockery Groundwater System suspended	March 19, 2004
Second FYR Completed	September 28, 2005
ESD signed to document a final decision to include institutional controls (ICs) as part of the groundwater remedy for the Site	December 17, 2009
Lower Macon Groundwater Remediation System Suspension Request	May 6, 2010
Third FYR completed	May 11, 2010
EPA Approval - Lower Macon Groundwater Remediation System Suspension Request	May 24, 2010
Final Post Active Remediation Report for the Lower Macon Area	January 23, 2012

3.0 Background

3.1 Site Description

As stated in the EPA guidance, the term "site"

> *is best defined as that portion of a facility that includes the location of a release (or releases) of hazardous substances and wherever hazardous substances have come to be located. As such, the extent of a site is not limited by property boundaries, and does not include clean areas within a facility's property boundaries.*

U.S. Environmental Protection Agency, *Clarifying the Definition of "Site" Under the National Priorities List*, Publication 9320.2-10FS, PB95-963320, EPA 540/F-95/033, May 1996.

The Site does not include the entire area of either the Macon or Dockery property. Therefore, for purposes of referencing within this FYR, the Macon and Dockery properties are the actual property boundaries, which include both clean and contaminated areas. The portions of the Macon and Dockery properties in which contamination has been found and remediation has taken place or is occurring, will be referred to as the Macon Site and the Dockery Site, respectively. It should also be noted that within the Macon Site, there are three distinct identified locations: the Macon Source Area, the Upper Macon Site and the Lower Macon Site. Within the Dockery Site, there are two distinct identified areas: the Upper Dockery Site and the Lower Dockery Site. For purposes of the FYR, references to the Macon Dockery Site or the Site connote the entire Charles Macon Lagoon and Drum Storage Site.

The Macon Dockery Site operated as a waste oil recycling and antifreeze manufacturing facility from 1979 to 1982. The Site is located approximately 1 mile east of the Pee Dee River and 1.6 miles southwest of Cordova, Richmond County, North Carolina on State Road (SR) 1103. The Site is comprised of two non-contiguous, independently owned parcels of land: a 40-acre tract owned by relatives and heirs of Charles Macon and a one-acre tract owned by relatives and heirs of John Dockery. The Dockery property is located approximately 2,640 feet north of the Macon property entrance on the west side of SR 1103. The coordinates for the Macon Site are 34° 53' 30" North latitude, 79° 50'18" West longitude. The coordinates for the Dockery Site are 34° 53' 52" North latitude and 79° 50'18" West longitude. Figure 1a is a topographic site map of the Macon and Dockery properties.

The Macon property is primarily wooded with several cleared areas. The cleared areas contained drum storage, three unlined surface impoundments, and eleven waste oil lagoons. Figures 2 through 4 show the locations of Lagoons 1 through 9 in the Upper Macon Site and Lagoons 10 and 11 located on the southwest portion of the property or the Lower Macon Site. Three empty and unused surface impoundments were located on the northern portion of the Lower Macon Site. Several abandoned buildings remain on the Upper Macon Site where the majority of the oil reclamation and antifreeze manufacturing activities occurred.

The Dockery Site contained one unlined waste oil lagoon, as well as several drum disposal areas. The lagoon was located approximately 2,400 feet west of SR 1103 in a small clearing that forms the Lower Dockery Site. Drum storage on wooden pallets primarily occurred at the cleared area that is the Upper Dockery Site, Figures 2 and 3.

3.2 Site Topography, Geology, and Hydrogeology

The Site is located in the western margin of the Sandhills Region of the Inner Coastal Plain Physiographic Province. The Sandhills region is characterized by deep sandy soil, rolling topography, and the highest elevations in the coastal plain. Four distinct hydrogeologic units were encountered at the Site. These units are distinguished primarily by differences in lithology and also by differences in relative permeabilities. In order of descending depth, these units include: a perched water table; a shallow saprolite aquifer; a transition zone of partially weathered rock; and a bedrock aquifer. The groundwater flow direction is to the west-northwest.

The Site lies on the Piedmont-Coastal Plain soil province boundary. The soils in the area are the Cecil and Iredell soils. The Cecil soils present at the Site are a gravely loam, sandy loam and clay. The Iredell soils consist of loam underlain with sticky clay. The layer of residual soil and saprolite on competent bedrock at the Site is 30 to 95 feet thick. Residual soils are thickest in the area of the Upper Macon and Dockery Sites and thin westward with increasing proximity to the Pee Dee River. The unsaturated or vadose zone of soil ranges from 25 to 35 feet thick. The bedrock is granite or gneiss.

Surface water runoff on the Macon Site primarily drains to the west in the direction of Solomon's Creek. Water from the northern portion of the Macon Site enters either a small pond located in the western portion of the Lower Macon Site or an unnamed tributary to Solomon's Creek. Solomon's Creek enters the Pee Dee River approximately two miles downstream from the Site.

Surface water from the Dockery Site moves via numerous gullies and intermittent streams. Water leaving the northern portion of the Dockery Site enters a westward flowing unnamed tributary. This tributary enters the Pee Dee River approximately one mile west of the Site.

3.3 Land and Resource Use

The former and current land use of the Site and surrounding area has been and continues to be primarily agricultural with limited residential use along SR 1103. Residential use increases northeast of the Site toward Cordova, located 1.6 miles northeast of the Site. In addition to residential use, the Site is also used for recreational purposes such as hunting and fishing. The land use for the Site and the surrounding area is not expected to change in the foreseeable future.

The primary source of drinking water in the area is private water supply wells. Based on information from the EPA Remedial Project Manager (RPM), all private drinking water wells are upgradient of the Site. No private drinking water wells are located in the interpreted downgradient direction of the groundwater contaminant plume.

3.4 History of Contamination

From 1979 to 1982, Mr. Charles Macon operated a waste oil reclamation and antifreeze manufacturing facility at the Macon property. Waste oils were collected in eleven unlined lagoons, nine above-ground tanks, and two tankers on the property, and in one unlined lagoon on the Dockery property. Drums containing waste paints, solvents, acids and bases were also received and stored on the Macon and Dockery properties. Operations at the Site were terminated following the death of Mr. Macon in 1982.

A 1980 inspection of the Site found the waste oil stored in twelve unlined lagoons, which were overflowing and contaminating the surrounding ground. Inspectors also discovered 175 55-gallon drums in various stages of deterioration, many of which were broken or leaking. The drums contained waste such as methanol, toluene, vinyl thinners, epoxy, enamels, lacquers, ethyl acetate, caustic soda, and methylene chloride. Oil and sludge in the lagoons contained concentrations of lead, chromium, and barium in excess of Resource Conservation and Recovery Act (RCRA) thresholds.

3.5 Initial Response

The EPA initiated a removal at the Macon property in November 1983. During the removal, a total of 3,123 tons of waste and 137,000 gallons of oil were removed from the Site. Reusable oil was taken to an oil reclamation facility and the Explosive Ordinance Disposal Unit of the US Army removed 246 calcium hydroxide flare charges. Oil and hydrocarbon sludges remaining in the lagoons were solidified, removed, and disposed off-site in a South Carolina RCRA-permitted hazardous waste facility. The lagoons were then filled, graded, and seeded with grass. All lagoons were excavated and backfilled with the exception of Lagoon 10. Lagoon 10 received five truckloads of solidified sludge from Lagoon 7, two truckloads of boiler fly ash, 43 crushed empty drums, and miscellaneous debris from the Site. Lagoon 10 was then capped with a synthetic liner and a three-foot thick clay cover.

Removal operations on the Dockery property began in January 1984. Hazardous materials at this portion of the Site were stored in one unlined surface impoundment and in approximately 230 55-gallon drums. A total of 709 tons of waste was removed from this area in an operation similar to that conducted on the Macon property.

Immediate removal activities at both properties were completed January 17, 1984. The EPA completed a geological and sampling investigation at the Site between February 1985 and March 1985. Based on the results of this investigative effort, the Site was proposed for the National Priorities List (NPL) on January 22, 1987, and was finalized on the NPL on July 22, 1987. The NPL is a list of priority releases for long-term evaluation and remedial response, and was promulgated pursuant to section 105 of the CERCLA, and Liability Act (CERCLA) of 1980, as amended. The NPL is found in the NCP (Appendix B of 40 CFR part 300).

3.6 Basis for Taking Action

On April 14, 1988, the EPA entered into an Administrative Order on Consent (AOC) with two PRPs (Clark Equipment Company and Crown, Cork, and Seal Company), which were responsible for over 50 percent of the volume of waste at the Site. The AOC outlined the terms under which the EPA would allow the PRPs to conduct the Remedial Investigation/Feasibility Study (RI/FS). The RI/FS was started in April 1988 and completed in September 1991. The RI field investigation was conducted in two phases. Phase I was conducted from September 1989 to January 1990, and Phase II from July 1990 to October 1990. The RI involved the installation of 34 boreholes and 19 monitoring wells and the collection of more than 100 surface soil, sediment, surface water, groundwater, and waste samples. Sampling indicated both volatile organic compound (VOC) and inorganic contamination in both the soil and groundwater. The contaminants of concern (COCs) for the Site are tetrachloroethene (PCE), trichloroethene (TCE), vinyl chloride, trichloroethane, dichloroethene, dichloroethane, manganese, chromium, lead, and polycyclic aromatic hydrocarbons (PAHs).

4.0 Remedial Actions

In accordance with CERCLA and the NCP, the overriding goals for any remedial action are protection of human health and the environment and compliance with Applicable or Relevant and Appropriate Requirements (ARARs). A number of remedial alternatives were considered for the Site, and final selection was made based on an evaluation of each alternative against nine evaluation criteria that are specified in Section 300.430(f)(5)(i) of the NCP. The nine criteria include:

1. Overall Protectiveness of Human Health and the Environment
2. Compliance with ARARs
3. Long-Term Effectiveness and Permanence
4. Reduction of Toxicity, Mobility or Volume of Contaminants through Treatment
5. Short-term Effectiveness
6. Implementability
7. Cost
8. State Acceptance
9. Community Acceptance

The Assessment of the Site in the 1991 ROD, states, *"The intent of this remedial action presented in this ROD is to reduce future risks at this Site. This remedial action will remove the threat posed by contaminated water and source soil contamination, and remove the threat posed by vessel contents at the Site. Remediating residual and source soil contamination will prevent contamination from adversely impacting groundwater and decrease the future risk associated with the Site soils."* The Remedial Action Objectives (RAOs) as stated in the 1991 ROD are:

- Prevent or mitigate the continued release of hazardous substances, pollutants and contaminants from the Site;
- Eliminate or reduce the risks to human health associated with ingestion, inhalation, and/or direct contact with hazardous substances, pollutants or contaminants in the groundwater, surface water, and sediment;
- Eliminate or minimize the threat posed to public health and the environment from current and/or potential migration of hazardous substances in the groundwater;
- Reduce concentrations of hazardous substances, pollutants, or contaminants in soils and groundwater within the Site to levels specified by the performance standards; and,
- Reduce the mobility, toxicity and/or volume of hazardous substances, pollutants, or contaminants at the Site.

As noted in the ROD, the goal of the selected groundwater remedy is to restore the groundwater to its beneficial use. Because this remedy resulted in hazardous substances, pollutants, or contaminants remaining on-site above health-based levels that allow unlimited use and unrestricted exposure --i.e., contaminated groundwater remains on Site-- FYRs will be conducted after commencement of the remedial action to ensure that the remedy continues to provide adequate protection of human health and the environment.

4.1 Remedy Selection

4.1.1 1991 Record of Decision

The ROD issued September 30, 1991, provided for remediation of contaminated groundwater and contaminated soil.

Soil.

As stated in the 1991 ROD, the remedial action for soil included the following:

- A soil vapor extraction (SVE) system to treat VOCs and SVOCs in-situ through a network of air withdrawal (or vacuum) wells installed vertically in the unsaturated zone to the water table. SVE was designated for use at Lagoon 7 for the removal of Tetrachloroethene (PCE), identified as the only compound in Site soils with the potential to cause groundwater to exceed groundwater remediation levels.
- Bioremediation of Lagoon 10, preceded by a Treatability Study to determine if the indigenous microbial population is capable of degrading PAHs in Lagoon 10.
- Vessel Remediation, including dismantling the vessels and appropriate disposition of vessels and contents: hazardous vessel contents to be taken to a RCRA-approved facility for disposal; and non-hazardous vessel contents and the vessel pieces to be recycled or sent to an industrial landfill for disposal.

Groundwater.

The remedial action for groundwater included groundwater extraction, treatment and overall monitoring program for the Site, including the following:

- Groundwater contaminated above the remediation levels indicated in the ROD to be extracted across the entire Site.
- Treatment of groundwater by means of an air-stripping tower to remove VOCs
- Discharge of treated groundwater either to surface water (Solomon's Creek) or to an infiltration gallery, with any reduction in metals concentrations necessary to meet National Pollutant Discharge Elimination System (NPDES) requirements through filtration/coagulation or some other cost effective method.
- Contingent measures, should the EPA determine that any portions of the aquifer cannot be restored to their beneficial use, including
    - modification of engineered controls such as physical barriers or containment measures;
    - waiver of chemical-specific ARARs for those portions of the aquifer based on the technical impracticability of achieving further contaminant reduction;
    - Institutional controls (ICs) to restrict access to portions of the aquifer contaminated above health-based goals, since this aquifer is classified as a potential drinking water source;
    - Continued monitoring of specified wells; and
    - Periodic re-evaluation of remedial technologies for groundwater restoration.

Table 2 lists the groundwater remediation goals as specified in the 1991 ROD.

Table 2: Groundwater Remediation Goals as Specified in the 1991 ROD

Contaminant	Remediation Goal (µg/L)
Tetrachloroethene	1
Trichloroethene	2.8
1,1-Dichloroethene	7
1,2-Dichloroethene	70
Vinyl chloride	1
Benzene	1
1,1,1-Trichloroethane	200
Manganese	50

4.1.2 1994 ROD Amendment

The ROD and Statement of Work (SOW) required that a bioremediation treatability evaluation of waste materials from Lagoon 10 be performed using indigenous microbial populations to degrade carcinogenic PAHs to a performance standard of 2 micrograms per Liter (µg/L) total PAHs. However, based on the treatability study results and additional information regarding the nature of the waste obtained from sampling efforts within Lagoon 10, the EPA amended the remedy.

On June 1, 1994, the EPA signed a ROD Amendment to modify the soil remedy at the Site by deleting the requirement for bioremediation and providing for the excavation and off-site disposal of Lagoon 10 waste material. In addition, the groundwater remediation levels for three contaminants were changed: chloroform changed from 0.19 µg/L to 1 µg/L; tetrachloroethene was changed from 0.7 µg/L to 1 µg/L; and vinyl chloride was changed from 0.015 µg/L to 1 µg/L.

4.1.3 2009 Explanation of Significant Difference

Since the ROD finalization date, issues concerning institutional controls (ICs) have been identified at the Site. The Remedial Action (RA) in the ROD provided that ICs, among other contingency measures, may be implemented and maintained to restrict access to those portions of the aquifer which remain above health-based goals if the extraction and treatment system is unable to accomplish the required reductions in contamination. The RA at the Site has not yet reduced contamination in the groundwater to acceptable levels. However, the EPA has not determined that the selected remedy cannot achieve remedial goals.

Because the ICs are needed not as a contingency contemplated in the ROD but for interim protectiveness, the EPA issued an Explanation of Significant Difference (ESD) on December 17, 2009. The ESD documents a final decision to include ICs to restrict drilling of any groundwater wells and extraction from the aquifer except in conjunction with the RA, until remedial goals are met. These ICs may include deed restrictions or covenants.

4.2 Remedy Implementation

Soil.

The Remedial Design (RD) for the Site was started in October 1992 and was completed by the PRPs in June 1994. The RA commenced June 28, 1994. Contaminated soil in Lagoon 10 was to be remediated through bioremediation of waste materials using indigenous microbial populations to degrade carcinogenic PAHs to a performance standard of 2 ppm total PAHs. However, based on the treatability study results and additional information regarding the nature of the waste obtained from sampling efforts within Lagoon 10, the EPA amended the ROD in June 1994 to provide for excavation and off-site disposal of Lagoon 10 waste materials. Hazardous materials remaining in tanks and vats were also to be transported to an appropriate off-site facility for disposal. RA activities included removal and off-site disposal of wastes from Lagoon 10, wastes from various vessels associated with facility operations, and

wastes generated during previous investigation activities. Remedial activities were completed at Lagoon 10 in November 1994.

The SVE system installed in the area of Lagoon 7 was constructed to remediate vadose zone soils beneath the former lagoon. The SVE system consisted of a series of wells used for vacuum extraction and soil venting. Remediation of Lagoon 7 was initiated on February 22, 1996. Air samples were collected from extraction well points and the exhaust side of the SVE system on a quarterly and semi-annual basis, respectively.

During the first FYR for the Site in 2000, a data review of the historical SVE system effluent results indicated that air samples collected from the individual SVE points and the SVE exhaust had been below the laboratory detection limits for VOCs since November 1997. In January 2000, the EPA requested sampling to determine if soils beneath Lagoon 7 had been remediated to the performance standard. Soil samples collected during this sampling event indicated that PCE concentrations were below the performance standard of 2 µg/L established for the Site. Based on this sampling data, in October 2000 the EPA and NC DENR approved decommissioning the SVE system, as well as abandoning the observation and extraction wells associated with this system. On December 27, 2002, well abandonment and decommissioning activities were completed for the SVE system.

Groundwater.

The groundwater recovery system consists of a series of groundwater extraction wells located in strategic positions to provide hydraulic containment of the groundwater within Site boundaries. Four separate remediation systems were constructed for the following areas: Macon Source Area; Upper/Lower Macon; Upper Dockery; and Lower Dockery. The EPA and NC DENR conducted a pre-final inspection of the four groundwater treatment systems on December 18, 1995, and a final inspection on January 26, 1996. All four of the systems became fully operational on February 12, 1996. Groundwater treatment at all four areas consists of utilizing an air stripper to remove VOCs. The treated groundwater is then pumped through a filter for further cleansing before being discharged to an infiltration gallery on-site.

A total of seventeen groundwater extraction wells were placed on the Upper and Lower Macon Sites and piped to two separate treatment systems. The Upper Macon Source Area treatment system consists of five extraction wells in the former source area, which are provided with submersible pumps to remove contaminated water with the highest concentration of contaminants. The Lower Macon treatment system utilizes twelve jet pump extraction wells to contain and capture contaminated water and prevent further migration from the Site.

Eight extraction wells on the Upper Dockery Site are piped to a centrally located treatment system in that area. An electrical submersible pump collection system is used to extract the groundwater in the Upper Dockery Site. The Lower Dockery Site has five extraction wells utilizing the jet pump system, which pumps the extracted water to an independent treatment system in that area of the property. See Figures 1 through 4 for monitoring and extraction well locations.

In February 1995, the EPA and NC DENR approved discharge of treated groundwater from the air stripper directly to the infiltration gallery without treatment for metals.

On February 12, 2004, a request was made to suspend the operation of the Lower Dockery groundwater extraction and treatment system. VOCs in the associated groundwater wells (MW-16 and MW-24) had not exceeded the performance standards since 2001 and 1999, respectively. On March 19, 2004, use of the Lower Dockery extraction and treatment system was suspended, and quarterly monitoring of the two monitoring wells was conducted using low-flow sampling techniques in an effort to reduce turbidity and suspended solids. Based on review of historical data, the manganese concentrations observed in MW-24 appeared to be declining with time. It was speculated that the high manganese concentrations might be suspended solids within the formation or that the manganese concentration may be the process of reductive dechlorination. Based upon these potential explanations, information and data collected, and discussions with the EPA, no additional sampling or remediation is planned for the Lower Dockery Site.

Data collected indicated that the Lower Macon remediation system had achieved performance standards except for occasional exceedances of inorganic parameters (particularly manganese). The EPA approved a request to suspend operation of the Lower Macon system and a proposal for post-remediation monitoring. On May 20, 2010, the Lower Macon Remediation System was turned off.

As of January 2014, the remaining remediation systems are functioning and operating as designed.

4.3 System Operation/Operation and Maintenance

Operation and Maintenance (O&M)

The Macon/Dockery Site Group (MDSG) submits Annual Summary Status Reports in accordance with Section XV- Progress Report of the Unilateral Administrative Order dated June 30, 1992. The primary activities associated with Operations and Maintenance (O&M) include:

- Weekly operation and maintenance of the systems;
- Semi-annual sampling of remediation system influents;
- Annual effluent and air quality sampling; and,
- Annual groundwater elevation measurements and groundwater sampling.

The most recent O&M information is reported in the Annual Summary Status Reports, data from the most recent sampling events in 2013 and 2014, and the 2012 Final Post Active Remediation Report for the Lower Dockery. These reports include evaluations of total gallons removed, average flow rate, mass VOC removal, total VOC removal since start-up, and percent operation for the period. Any issues associated with the operations and system maintenance and the resolutions of the issues are also included in these reports. The issues that affected the operation of the remedial systems (as reported in the most recent annual report) within the past year were frozen effluent lines, system shutdowns due to tripped circuit breakers, malfunctions of a fan motor (subsequently removed and replaced), leaking

effluent pipe, and a damaged shear element. Appendix D is a copy of the Annual Summary Status Report- June 1, 2013 – June 1, 2014.

O&M costs at the Site have fluctuated over the last five years. The O&M cost breakdown is as follows:

2010 - $123,000
2011 - $69,000 *($99,500)
2012 - $130,000 *($99,500)
2013 - $79,000
2014 - $64,000

The costs for 2010 were consistent with the previous five years of operation. However, with the suspension of the active remediation of the Lower Macon system in 2010, followed by four quarters of Post Active Remediation Monitoring and reporting in 2011, the costs for 2011 and 2012 should be averaged to more accurately convey O&M costs for those 2 years. The notation by 2011 and 2012 costs indicates the averaged cost of O&M from 2011 and 2012.

5.0 Progress Since Last Five-Year Review

This is the Fourth FYR. The Protectiveness Statement for the Third FYR in 2010 indicated the Site was protective of human health and the environment. The protectiveness statement in the 2010 report stated:

> *The remedies at the Charles Macon Lagoon and Drum Storage Site are currently protective of human health and the environment in the short-term because soil contamination was remediated through source removal and soil vapor extraction, and groundwater contamination is being remediated by extraction, treatment, and discharge to infiltration galleries. Currently no human exposure pathways exist to contaminated groundwater. However, in order for the remedies to be protective in the long-term, the following action needs to be taken to ensure long-term protectiveness: Implement institutional controls.*

Table 3 includes a summary of progress on recommendations from the Third FYR in 2010.

Table 3: Progress on Recommendations from 2010 Third FYR

Recommendation	Party Responsible	Milestone Date	Action Taken and Outcome	Date of Action (if applicable)
Implement Institutional controls and review implementation in next two years	US EPA, State, & PRPs	April 30, 2012	Not completed to date; however, the EPA and the State of NC have been in communication with the PRPs about ICs at the Site and have begun the process to implement deed restrictions on groundwater use on the entire Macon property and the affected acreage on the Dockery property.	NA

6.0 Five-Year Review Process

6.1 Administrative Components

The NC DENR Superfund Section conducted the FYR for the Charles Macon Lagoon and Drum Storage Site on behalf of the EPA. David Mattison (Environmental Engineer, NC DENR) and Stephanie Grubbs (Hydrogeologist, NC DENR Contractor) were responsible for gathering and reviewing data for this review and compiling all the information into the FYR Report for the EPA. Telephone and/or email discussions/interviews with Giezelle Bennett, the EPA RPM and Melissa Heath, the EPA Site Attorney were conducted. Other activities conducted for this review include document review (see Appendix A); completion of a Site Inspection Checklist (see Appendix B); community interview documentation and public notice submitted to the local newspaper (see Appendix C) by the community involvement coordinator, Angela Miller; and the FYR Report preparation.

6.2 Community Involvement

The EPA conducts all community involvement activities regarding the remedial activities for the Site. On February 10, 2015, the EPA published a public notice in the *Richmond Daily Journal* announcing the commencement of the FYR process for the Site. A copy of the public notice is included in Appendix C.

The EPA will make the final FYR Report available to the public. Upon completion of the FYR, the EPA will publish a public notice in the *Richmond County Journal* announcing the release of the final FYR Report. Copies of the FYR Report will be placed for the public to view at: the EPA Record Center, 11th Floor, 61 Forsyth Street, SW, Atlanta, GA 30303; the information repository located at the Leath Memorial Library, 412 East Franklin Street, Rockingham, North Carolina 28739; and, on the EPA website (http://www.epa.gov/superfund/index.htm).

6.3 Document Review

This FYR consisted of a review of relevant documents including but not limited to the signed ROD (1991); ROD Amendment (1994); Third FYR Report (2010); Annual Summary Status Report-June 1, 2012 to June 1, 2013; Annual Summary Status Report-June 1, 2013 to June 1, 2014; and Final Post Active Remediation Report for the Lower Macon Area (2012), Applicable groundwater clean-up standards and other ARARs, as listed in the ROD, were also reviewed and checked for updates. See Attachment 1 for a complete list of documents reviewed.

6.4 ARAR Review

CERCLA Section 121 (d) (2) (A) requires that Superfund remedial actions attain "a degree of cleanup of hazardous substance, pollutants, and contaminants released into the environment and of control of further release at a minimum which assures protection of human health and the environment." CERCLA § 121(d)(1), 42 U.S.C § 9621(d)(1). The RA must achieve a level of cleanup that at least

attains those requirements that are legally applicable or relevant and appropriate (ARARs). CERCLA § 121(d)(2)(A), 42 U.S.C § 9621(d)(2)(A).

Applicable requirements are those cleanup standards, standards of control, and other substantive requirements, criteria, or limitations promulgated under federal environmental or state environmental or facility siting laws that specifically address a hazardous substance, RA, location, or other circumstance found at a CERCLA site. 40 C.F.R. § 300.5.

Relevant and appropriate requirements are those standards that, while not "applicable", address problems or situations sufficiently similar to those encountered at the CERCLA site that their use is well suited to the particular site. 40 C.F.R. § 300.5. Only those state standards that are more stringent than federal requirements may be applicable or relevant and appropriate.

To-Be-Considered (TBC) criteria are non-promulgated advisories and guidance that are not legally binding, but should be considered in determining the necessary RA. For example, TBCs may be particularly useful in determining health-based levels where no ARARs exist or in developing the appropriate method for conducting a RA.

Chemical-specific ARARs are health- or risk-based numerical values or methodologies which, when applied to site-specific conditions, result in the establishment of numeric values. These values establish an acceptable amount of concentration of a chemical that may remain in, or be discharged to, the ambient environment. Examples of chemical-specific ARARs include maximum contaminant levels (MCLs) under the Federal Safe Drinking Water Act and ambient water quality criteria enumerated under the Federal Clean Water Act.

Action-specific ARARs are technology- or activity-based requirements or limits on actions taken with respect to a particular hazardous substance. These requirements are triggered by a particular remedial activity, such as discharge of contaminated groundwater or in-situ remediation.

Location-specific ARARs are restrictions on hazardous substances or the conduct of the response activities solely based on their location in a special geographic area. Examples include restrictions on activities in wetlands, sensitive habitats, and historic places.

RAs are required to comply with the chemical-specific ARARs identified in the ROD. In performing the FYR for compliance with ARARs, only those ARARs that address the protectiveness of the remedy are reviewed. Because the remedy at the Site currently addresses groundwater contamination, this FYR will discuss compliance with chemical-specific groundwater ARARs only.

6.4.1 Original ARARs from the 1991 ROD

The 1991 ROD identified the following Federal and State chemical-specific ARARs:

Federal ARARs

- 40 CFR Parts 261, 263, 264, 265, and 268 promulgated under the authority of RCRA and RCRA as amended (40 USC Section 6901, 6905, 6912, 6924, 6925 et. seq.)
- Clean Water Act (CWA 33 USC Sections 1251-1376, 40 CFR Parts 121, 122, 125, and 131)
- Occupational Safety and Health Administration (29 CFR 1910, Part 120)
- Safe Drinking Water Act (40 USC Section 300; 40 CFR Part 141, 143)
- Clean Air Act (40 CFR Part 50, Part 60, Subpart A and Subpart B, and Part 61, USC 1857)

State ARARs

- Regulations for the Management of Hazardous Waste promulgated under the authority of the NC Waste Management Act (North Carolina Administrative Code (NCAC) Title 15A, Chapter 13A)
- NC Drinking Water and Groundwater Standards; Groundwater Classifications and Standards (NCAC Title 15 Chapter 2L)
- NC Surface Water Quality Standards (NCSWQS) Classification and Water Quality Standards (NCAC Title 15A Chapter 2B)
- NCSWQS Technology-Based Effluent Limitations (NCAC Title 15A Chapter 2, Subchapter 2B.0400)
- NC Drinking Water Act (NCDWA) (General Statutes Chapter 130A, NCAC 311-327)
- NC Air Pollution Control Regulations (NCAC Title 15A Chapter 2D and 2Q)

6.4.2 Current Applicable ARARs

It is the EPA's policy that ARARs are generally "frozen" at the time of the ROD signature unless a "new or modified requirement calls into question the protectiveness of the selected remedy". 55 Fed. Reg. 8757 (March 8, 1990). The NC Classifications and Water Quality Standards Applicable to the Groundwater of North Carolina, NCAC Title 15A Subchapter 2L (NC 2L Standards), on which several of the remedial goals are based, were last amended on April 1, 2013. Two of the chemical-specific ARARs have changed for the COCs, trichloroethene and 1,1-dichloroethene, since the remediation goals assigned in the ROD. However, the NC 2L has become less stringent for both trichloroethene and 1,1-dichloroethene, currently 3 µg/L and 350 µg/L, compared with the remediation goals of 2.8 µg/L and 7 µg/L, respectively. Table 4 is a summary of previous and current ARARs for the groundwater COCs.

As stated previously, new standards do not indicate that the present standards are not protective. The EPA has indicated that the remediation goals set in the ROD are protective of human health and the environment. Since the remediation for soil contamination has been completed, ARARs relevant to remediation levels for soil were not discussed in this report.

Table 4: Comparison of 1991 ROD Groundwater Remediation Goals to Current ARARs

COC	1991 ROD groundwater remediation goal	Current NC 2L (As of April 1, 2013)	Current Federal CRQL	Current Federal MCLs	ARAR change?
		µg/L			
Tetrachloroethene	1[a]	0.7	0.5	5	No
Trichloroethene	2.8[b]	**3**	0.5	5	Yes
1,1-dichloroethene	7[b]	**350**	0.5	7	Yes
1,2-dichloroethene	70[b]	70	0.5	5	No
Vinyl Chloride	1[a]	0.03	0.5	2	No
1,1,1-Trichloroethane	200[b]	200	0.5	200	No
Benzene	1[b]	1	0.5	5	No
Manganese	50[b]	50	NA	NA	No

Notes:
[a] US EPA CRQL - US EPA CRQL for volatile compounds
[b] NC 2L - North Carolina Administrative Code, Title 15A, Subchapter 2L, Classifications and Water Quality Standards Applicable to the Groundwater of North Carolina.
[c] NA – No Federal standard (MCL and/or CRQL) exists for this compound

6.5 Data Review

Soil.

In October 2000, the EPA and NC DENR approved decommissioning the SVE system, as well as abandoning the observation and extraction wells associated with this system. On December 27, 2002, well abandonment and decommissioning activities were completed for the SVE system.

Groundwater.

The data review for the groundwater monitoring included an evaluation of the data collected since the previous FYR. The data reviewed is supplied in the Annual Summary Status Reports.

As stated in the Annual Summary Status Report - June 1, 2013 to June 1, 2014, sampling and analysis are conducted by Irminger Consulting, Inc., the environmental consultant retained by the MDSG. Groundwater elevation measurements and groundwater samples were collected once during the most current reporting period ending August 2014. Remediation system influent samples were collected on a semi-annual basis during the same reporting period. Air samples from the air exhaust stacks of the groundwater remediation systems and from ambient air at the property line, as well as effluent water samples from the remediation systems, were collected quarterly during the reporting period. The frequencies of groundwater sampling and groundwater elevation measurements have decreased from semi-annual to annual, based on a recommendation from the previous FYR. The effluent and air quality

sampling still remains quarterly, and the influent sampling has been conducted semi-annually since 2000. Mass removal estimates are calculated for each of the remedial systems on a quarterly basis. The estimates are based on quarterly flow volume and semi-annual influent concentration data. All data can be found in the Tables within Appendix D, Annual Summary Status Report - June 1, 2013 to June 1, 2014.

Influent/Effluent

A measure of the system performance can be made based on the system's ability to reduce influent concentrations to remedial performance standards. Because system effluent is directed to an infiltration gallery, effluent concentrations are designed to be less than the remediation goals established for groundwater at the Site.

Based on the analytical reports of samples collected from the system effluent ports, there have been no exceedances of VOCs in the system effluent within the previous five years for the Upper Dockery, the Macon Source Area, and the Upper/Lower Macon. Effluent samples for inorganic compounds have been below the performance standard concentrations except for exceedances of manganese. Manganese concentrations in the Macon Source Area effluent have exceeded the 50 µg/L performance standard two times in the last five years (September 2013 and January 2014); however, manganese is not site related, and the effluent is not being discharged to surface water but is in a closed loop system with respect to the infiltration gallery. The State of North Carolina and the EPA agreed to waive the criteria for manganese. A summary of the effluent sampling analytical results is included in Appendix D (Table 3).

Water samples are collected from the influent ports of the remedial systems on a semi-annual basis. A summary of the influent sampling analytical results is included in Appendix D (Table 4).

Air Quality

Air samples from the air exhaust stacks of the groundwater remediation systems and from the ambient air at the property line, as well as water effluent samples from the remediation systems, were collected quarterly during the reporting period. Within the previous five-years, all air analytical sample results are below requirements for the contaminants chloroform, 1,2-dichloroethene, trichloroethene, and toluene. A summary of the air quality sampling can be found in Attachment 4 (Table 13).

Groundwater

Groundwater samples were collected semi-annually in 2005 and annually thereafter. Two wells in the Upper Dockery and four wells each in the Macon Source Area and the Upper/Lower Macon have been sampled.

Upper Dockery

Since 2010, the Upper Dockery has one well with exceedances in VOCs.

- MW-15 exceeded the 1,1-Dichloroethene (1,1-DCE) remediation goal (RG) of 7 µg/L in 2011 (18 µg/L), 2013 (160 µg/L), and 2014 (1,500 µg/L). The trichloroethene remediation

goal of 7 µg/L was exceeded in 2014 (12 µg/L). Exceedances were also observed in chromium, manganese, and lead.

Macon Source Area

The Upper Macon Source Area has three wells with VOC exceedances.

- MW-2A has exceeded the remediation goals of 1,1-DCE, PCE and TCE since 2010. The levels have fluctuated, but the overall trend for MW-2A is a decline in the VOCs.
- MW-9 has exceeded the RGs for 1,1-DCE, PCE, TCE, and vinyl chloride. The overall trends of VOCs are fluctuating. 1,1-DCE results in 2011 were 29 µg/L, in 2012 levels increased to 93 µg/L but declined in 2014 to non-detect. PCE increased from 5.0 µg/L in 2010 to 22 µg/L in 2012 then decreased to 1.9 µg/L in 2014. TCE fluctuated from 3 µg/L in 2010 to 15 µg/L in 2011 and then decreased to 1.1 µg/L in 2014. Vinyl chloride has fluctuated between 3.2 µg/L in 2011 to non-detect in 2012 and to 1.5 µg/L in 2014. Barium, beryllium, chromium, manganese, nickel, vanadium and cadmium have also been above the RGs within the past five years.
- MW-11 had 2 exceedances of inorganics, barium and manganese in 2011 and 2012.
- MW-19 had exceedances in PCE. PCE declined from 3.7 µg/L in 2011 to 1.3 µg/L in 2014. Exceedances of chromium, beryllium, magnesium, nickel, and vanadium were also reported.

Upper/Lower Macon

The Upper/Lower Macon has two wells with VOC exceedances and one well with inorganic exceedances. Groundwater samples from the Upper Macon are collected from wells MW-21 and MW-23 and from the Lower Macon from wells MW-13 and MW-22.

- MW-21 exceeded the RGs for 1,1-DCE, PCE, and TCE. 1,1-DCE results in 2010 were 46 µg/L, decreased in 2011 to 1.2 µg/L but increased to 60 µg/L in 2013, with a decrease in 2014 to 16 µg/L. The PCE concentrations have decreased since 2010, decreasing from 12 µg/L in 2010 to 4.7 in 2014. TCE has fluctuated within the past five sampling events from 5.4 µg/L in 2010 to 1.3 µg/L in 2014.
- MW-23 had two VOC exceedances. 1,1-DCE increased from a level of 7 µg/L in 2011 to the current 53 µg/L in 2014. PCE has fluctuated with 5.0 µg/L in 2010, 1.8 µg/L in 20011 and 2012 and 10 µg/L in 2014. Manganese was also above the RG from 2010 to present.
- MW-13 had no VOC detected and chromium, beryllium, manganese, and nickel as the only inorganic contaminants.
- MW-22 had no VOC detected and no exceedance of inorganic contaminants. However, the wells in the Lower Macon were only sampled in 2010 and 2011 after the suspension of the system on May 20, 2010.

During the FYR scoping meeting with the EPA, the RPM stated the plume is contained and the boundaries of the groundwater plume are known. A complete summary of the groundwater analytical results can be found in Appendix D (Table 12).

6.6 Site Inspection

The Site inspection of the Macon Dockery Site was conducted on December 2, 2014. Attending the Site inspection were David Mattison (Environmental Engineer, NC DENR Superfund Section), Kenny Gulledge (Technical Committee Chairman, MDSG), and Steve Irminger (Irminger Consulting, Inc.). During the inspection, fencing surrounding the individual treatment systems was undamaged and in good condition, and all groundwater treatment system monitoring records were noted as readily available and up-to-date. The treatment system was noted as being in good condition, all chemicals and equipment properly stored, and the system is operating and functioning as designed. However, it was also noted that as the groundwater extraction and treatment system ages, a variety of components may fail unexpectedly. The monitoring wells were properly secured, locked, functioning and in good condition, and all wells were easily located. See Appendix B for the completed site inspection checklist.

6.7 Interviews

The EPA is responsible for contacting and interviewing the community surrounding the Site for concerns, comments, and/or questions regarding the remediation at the Site for the FYR. In the previous reviews, the owners of the property were interviewed, but in 2010 the sole owner of the Macon property passed away. No interviews were conducted for this FYR. A public notice was placed in the local newspaper informing the community of this review. The public notice is included in Appendix C.

7.0 Technical Assessment

7.1 Question A: Is the remedy functioning as intended by the decision documents?

Yes, the RA continues to operate as designed. The groundwater remedy is functioning as designed. The plume is contained and the boundaries have been defined. However, institutional controls have not been implemented to date.

In order to be protective of human health and to preserve the effectiveness of the remedy, ICs must be implemented and maintained until remedial goals are met. Therefore, the EPA is requiring placement of ICs on both parcels of the Site to restrict drilling of any groundwater wells and extraction of groundwater from the aquifer, except in conjunction with the Remedial Action. These ICs may include, but not be limited to, deed restrictions or covenants. An ESD was needed because ICs are not being instituted as the contingency contemplated in the ROD, but to provide additional protection of the public during continuing remedy implementation. The new restrictions will become part of the groundwater remedy for the Site.

Table 5 is a summary of the institutional controls evaluation.

Table 5: Institutional Controls Evaluation Summary

Media	ICs Needed	ICs Called for in the Decision Documents	IC Objective	Instrument in Place	Notes
Ground Water	Yes	Yes	ICs may include, but not be limited to, deed restrictions or covenants.	None	None
Soils	No	No	NA	NA	None

7.2 Question B: Are the exposure assumptions, toxicity data, clean-up levels and remedial action objectives (RAOs) used at the time of the remedy still valid?

Yes. The NC Classifications and Water Quality Standards Applicable to the Groundwater of North Carolina, NCAC Title 15A Subchapter 2L (NC 2L Standards), on which several of the remedial goals are based, were last amended on April 2013. Two of the chemical-specific ARARs have changed for the COCs since the remediation goals assigned in the ROD. However, the new NC 2L remedial goals are less stringent than the current ROD remediation goals. The EPA has indicated that the remediation goals set in the ROD are protective of human health and the environment.

There have been no changes in the physical conditions of the Site that would affect the protectiveness of the remedy. The exposure assumptions, toxicity data, clean-up levels, and RAOs used at the time of the remedy are still protective of human health and the environment.

7.3 Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

No additional information has come to light that could call into question the protectiveness of the remedy.

7.4 Technical Assessment Summary

According to documents, the site inspection, and interviews with the EPA, the exposure pathway to contaminated soil and groundwater has been mitigated. There are no known current exposure routes to contaminated soil or groundwater. Permanent land use restrictions or other appropriate institutional controls need to be implemented at the Site for long-term protectiveness until the RGs are achieved.

8.0 Issues, Recommendations and Follow-Up Actions

Table 6 summarizes the site issue, recommendations and the follow-up actions.

Table 6: Recommendations and Follow-Up Actions

OU(s): 01	**Issue Category:** Institutional Controls			
	Issue: Institutional Controls have not been implemented.			
	Recommendation: Implement permanent land use restrictions or other appropriate institutional controls at the Site.			
Affect Current Protectiveness	**Affect Future Protectiveness**	**Implementing Party**	**Oversight Party**	**Milestone Date**
No	Yes	EPA/State	EPA	05/11/16

9.0 Protectiveness Statement

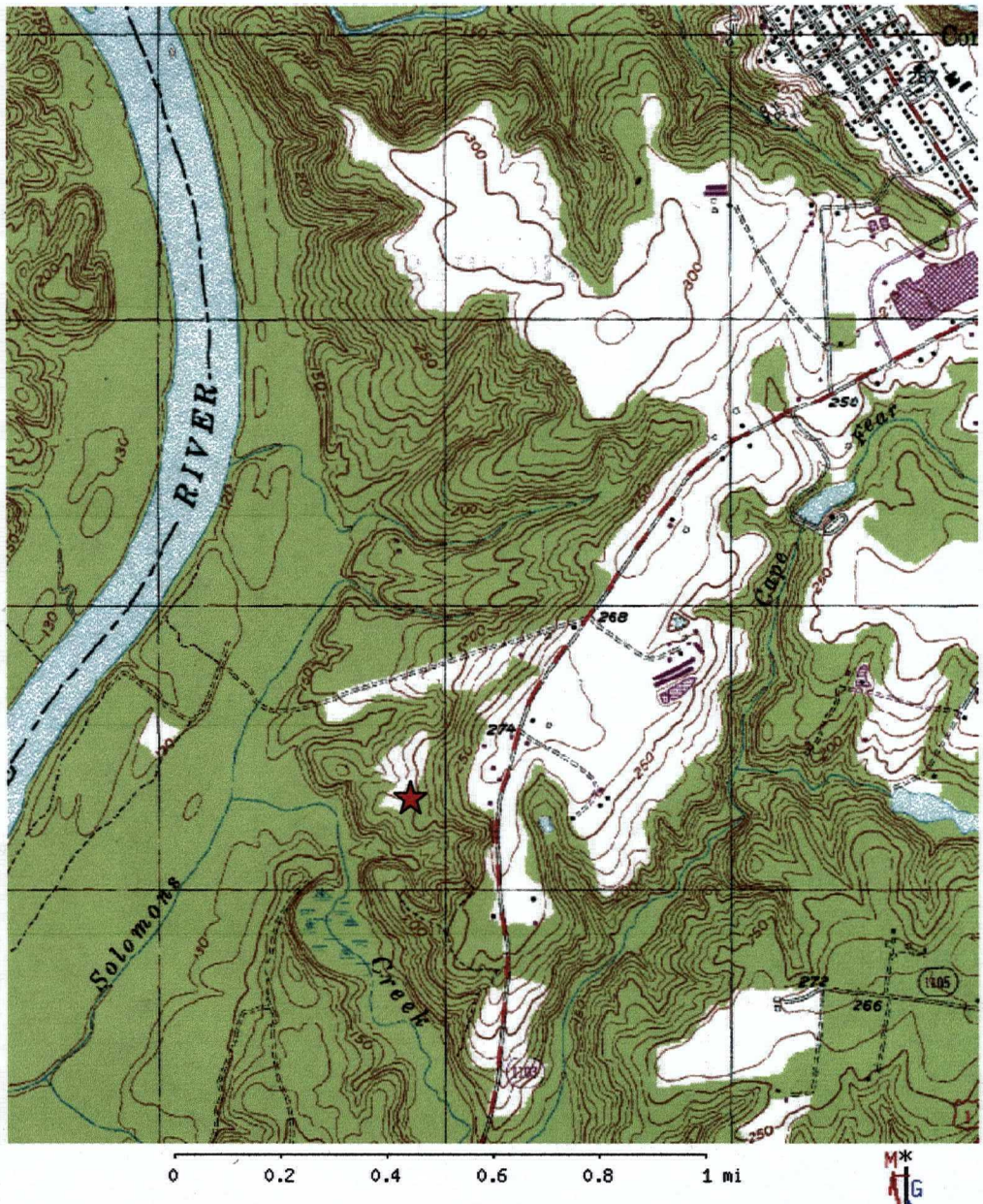
The remedies at the Charles Macon Lagoon and Drum Storage Site are currently protective of human health and the environment in the short-term because soil contamination was remediated through source removal and soil vapor extraction, and groundwater contamination is being remediated by extraction, treatment, and discharge to infiltration galleries. Currently, no human exposure pathways exist to contaminated groundwater. However, in order for the remedies to be protective in the long-term, institutional controls are required to ensure protectiveness.

10.0 Next Review

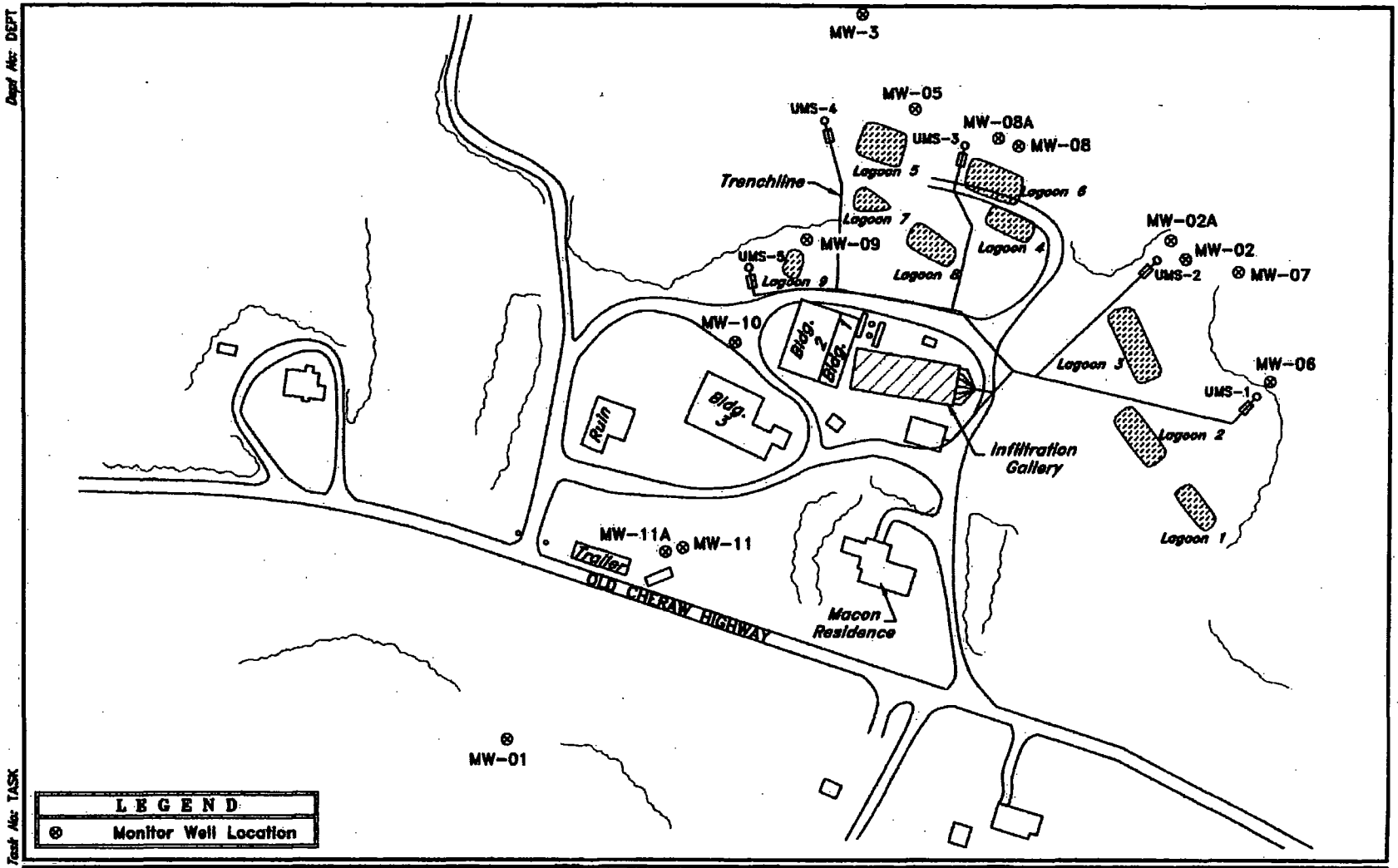
The next FYR for the Charles Macon Lagoon and Drum Storage Site will be due within five years of the signature/approval date of this FYR.

FIGURES

FIGURE 1 A
Topographic Location Map
Macon Dockery Site – Cordova, North Carolina



Map center is UTM 17 606188E 3862309N (WGS84/NAD83)
Rockingham quadrangle - TopoZone Pro elevation display
Projection is UTM Zone 17 NAD83 Datum



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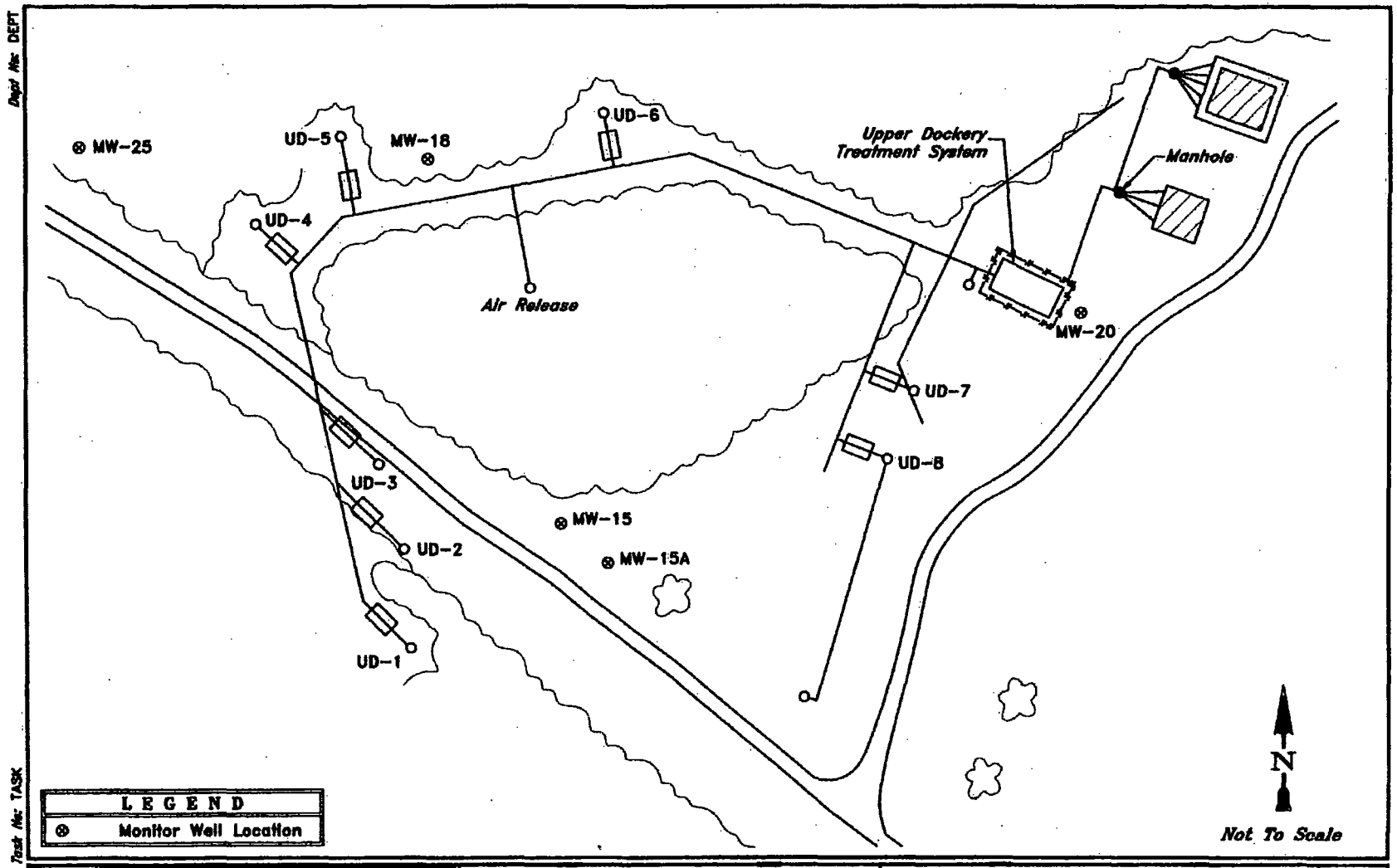
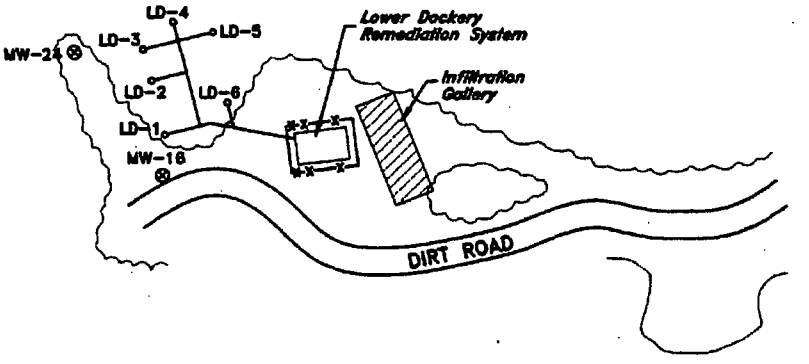
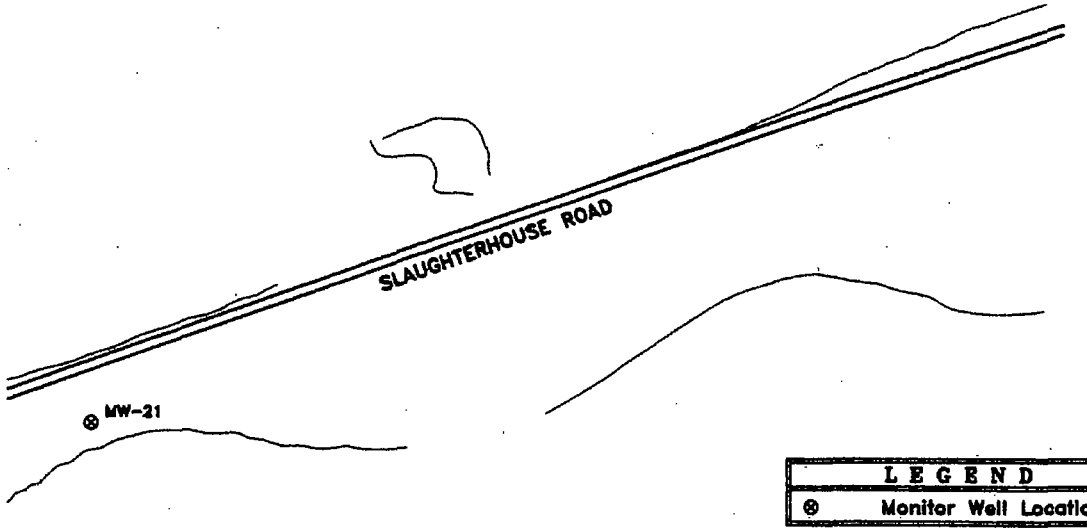


2	IRMINGER CONSULTING, INC.			MACON DOCKERY SITE GROUP	UPPER DOCKERY	2
	0004-001	Made By: SEI	Date: 01-20-2005			
		Chkd By: SEI	Filename: 0004001			

Dept No: DEPT





LEGEND	
⊗	Monitor Well Location

Task No: TASK

IRMINGER CONSULTING, INC.			MACON DOCKERY SITE GROUP	LOWER DOCKERY	3
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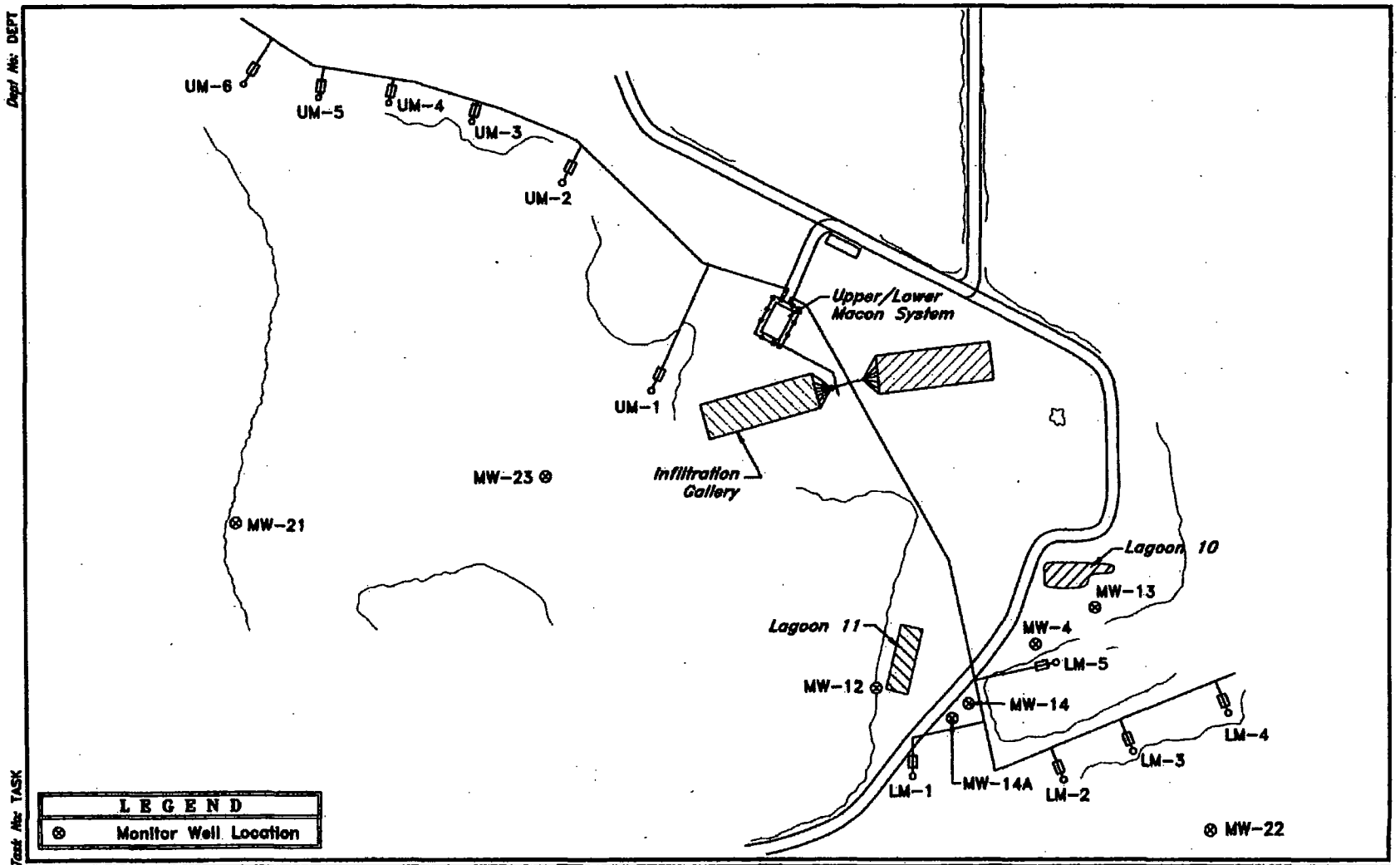
	Chkd By: SEI	Filename: FILENAME			



4	IRMINGER CONSULTING, INC.		MACON DOCKERY SITE GROUP	UPPER/LOWER MACON	4
	0004-001	Made By: SEI Date: 01-20-2005			
		Chkd By: SEI Filename: 0004001			

APPENDIX A
List of Documents Reviewed

List of Documents Reviewed
Charles Macon Lagoon and Drum Site
Five-Year Review Report

U.S. Environmental Protection Agency. September 30, 1991. Record Of Decision, Charles Macon Lagoon and Drum Site, Cordova, North Carolina.

U.S. Environmental Protection Agency. June 1, 1994. ROD Amendment, Charles Macon Lagoon and Drum Site, Cordova, North Carolina.

U.S. Environmental Protection Agency. September 26, 2000. Five-Year Review Report, Charles Macon Lagoon and Drum Site, Cordova, North Carolina.

U.S. Environmental Protection Agency. June 1, 1994. Explanation of Significant Difference, December 17, 2009. Charles Macon Lagoon and Drum Site, Cordova, North Carolina.

NC Department of Environment and Natural Resources. May 11, 2010. Five-Year Review Report, Charles Macon Lagoon and Drum Site, Cordova, North Carolina.

U.S. Environmental Protection Agency. May 24, 2010. EPA Approval for Lower Macon Groundwater Remediation system Suspension Request. Charles Macon Lagoon and Drum Site, Cordova, North Carolina.

Irminger Consulting Inc., January 23, 2012, Final Post Active Remediation Report for the Lower Macon Area, Charles Macon Lagoon and Drum Site, Cordova, North Carolina.

Irminger Consulting Inc., May 19, 2014, Annual Summary Status Report June 1, 2012 to June 1, 2013, Charles Macon Lagoon and Drum Site, Cordova, North Carolina.

Irminger Consulting Inc., August 20, 2014, Annual Summary Status Report June 1, 2013 to June 1, 2014, Charles Macon Lagoon and Drum Site, Cordova, North Carolina.

APPENDIX B
Site Inspection Checklist and Photographs

Five-Year Review Site Inspection Checklist

I. SITE INFORMATION	
Site name: Charles Macon Lagoon & Drum Storage NPL Site	**Date of inspection: December 2, 2014**
Location and Region: Cordova, NC, Region 4	**EPA ID: NCD980840409**
Agency, office, or company leading the five-year review: David Mattison, NC DENR	**Weather/temperature: ~45 °F, overcast**

Remedy Includes: (Check all that apply)

Γ Landfill cover/containment
Γ Access controls
ΞΓ Institutional controls
ΞΓ Groundwater pump and treatment
Γ Surface water collection and treatment
Γ Other_____

Γ Monitored natural attenuation
Γ Groundwater containment
Γ Vertical barrier walls

Attachments: Γ Inspection team roster attached Γ Site map attached

II. INTERVIEWS (Check all that apply)

1. **O&M site manager Steve Irminger** President December 2, 2014
   Name Title Date

   Interviewed Ξ at site Γ at office Γ by phone Phone no
   Problems, suggestions; Γ Report attached

Steven Irminger
President
Irminger Consulting, Inc.
7015 Erinbrook Drive
Concord, North Carolina 28025
(704) 795-1585 voice and facsimile
(704) 701-9099 Cellular
www.irmingerconsulting.com

2. **O&M staff** _____
   Name Title Date

   Interviewed Ξ at site Γ at office Γ by phone Phone no.
   Problems, suggestions; Γ Report attached _____

3. **Local regulatory authorities and response agencies** (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply.

Agency _____
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; Γ Report attached _____

Agency _____
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; Γ Report attached _____

Agency _____
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; Γ Report attached _____

Agency _____
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions; Γ Report attached _____

4. **Other interviews** (optional) Γ Report attached.

Kenny B. Gulledge
Manager-Remediation
Environment, Health & Safety
Crown Cork & Seal USA, Inc.
100 Evans Row
PO Box 759
Cheraw, SC 29520
843-320-1171
Kenny.gulledge@crowncork.com

III. ON-SITE DOCUMENTS & RECORDS VERIFIED (Check all that apply)

1. **O&M Documents**
   Ξ O&M manual ΞReadily available Ξ Up to date Γ N/A
   Ξ As-built drawings Ξ Readily available Ξ Up to date Γ N/A
   Ξ Maintenance logs Ξ Readily available Ξ Up to date Γ N/A
   Remarks: Maintained at Irminger Consulting with relevant documents such as the O&M Manual, As-built drawings, and pertinent maintenance logs brought on-site during weekly inspections.

2. **Site-Specific Health and Safety Plan** Ξ Readily available Ξ Up to date Γ N/A
   Ξ Contingency plan/emergency response plan ΞReadily available Ξ Up to date Γ N/A
   Remarks: Maintained at Irminger Consulting and brought on-site during weekly inspections.

3. **O&M and OSHA Training Records** Ξ Readily available Ξ Up to date Γ N/A
   Remarks: Maintained at Irminger Consulting.

4. **Permits and Service Agreements**
   Γ Air discharge permit Γ Readily available Γ Up to date Ξ N/A
   Ξ Effluent discharge Ξ Readily available Ξ Up to date Γ N/A
   Ξ Waste disposal, POTW Ξ Readily available Ξ Up to date Γ N/A
   Γ Other permits_____ Γ Readily available Γ Up to date ΞN/A
   Remarks: Maintained at Irminger Consulting.

5. **Gas Generation Records** Γ Readily available Γ Up to date Ξ N/A
   Remarks_____

6. **Settlement Monument Records** Γ Readily available Γ Up to date Ξ N/A
   Remarks_____

7. **Groundwater Monitoring Records** Ξ Readily available Ξ Up to date Γ N/A
   Remarks: Maintained at Irminger Consulting.

8. **Leachate Extraction Records** Γ Readily available Γ Up to date Ξ N/A
   Remarks_____

9. **Discharge Compliance Records**
   Ξ Air Ξ Readily available Ξ Up to date Γ N/A
   Ξ Water (effluent) Ξ Readily available Ξ Up to date Γ N/A
   Remarks: Maintained at Irminger Consulting.

10. **Daily Access/Security Logs** Γ Readily available Γ Up to date Ξ N/A
    Remarks_____

C. Institutional Controls (ICs)

1. **Implementation and enforcement**

Site conditions imply ICs not properly implemented Γ Yes Ξ No Γ N/A
Site conditions imply ICs not being fully enforced Γ Yes Ξ No Γ N/A

Type of monitoring (*e.g.*, self-reporting, drive by) Self Reporting with Weekly Inspections
Frequency Weekly
Responsible party/agency Macon Dockery Site Group
Contact: Steve Irminger
Name Title Date Phone no.

Reporting is up-to-date Ξ Yes Γ No Γ N/A
Reports are verified by the lead agency Ξ Yes Γ No Γ N/A

Specific requirements in deed or decision documents have been met Γ Yes Ξ No Γ N/A
Violations have been reported Γ Yes Ξ No Γ N/A
Other problems or suggestions: Γ Report attached
Institutional controls in the form of perpetual land use restrictions have not been implemented on the two parcels comprising the Charles Macon Lagoon & Drum Storage NPL Site. However, Irminger Consulting continues to maintain the site and the groundwater extraction and treatment systems. As such, the remedy is protective in the short term.

2. **Adequacy** Γ ICs are adequate Ξ ICs are inadequate Γ N/A
Remarks: Institutional controls in the form of perpetual land use restrictions have not been implemented on the two parcels comprising the Charles Macon Lagoon & Drum Storage NPL Site. In order for the remedy to be protective in the long term, perpetual land use restrictions must be implemented.

D. General

1. **Vandalism/trespassing** Γ Location shown on site map Ξ No vandalism evident
Remarks_____

2. **Land use changes on site** Γ N/A
Remarks: The parcels continue in use as a mix of rural, agricultural and residential use.

3. **Land use changes off site** Γ N/A
Remarks: The surrounding area continues to exist as a mix of rural, agricultural and residential use.

VI. GENERAL SITE CONDITIONS

A. Roads Ξ Applicable Γ N/A

1. **Roads damaged** Γ Location shown on site map Ξ Roads adequate Γ N/A
Remarks_____

IV. O&M COSTS

1. **O&M Organization**
   Γ State in-house Γ Contractor for State
   Γ PRP in-house Ξ Contractor for PRP
   Γ Federal Facility in-house Γ Contractor for Federal Facility
   Γ Other_____

2. **O&M Cost Records – Not Available**
   Γ Readily available Γ Up to date
   Ξ Funding mechanism/agreement in place
   Original O&M cost estimate_____ Γ Breakdown attached

   Total annual cost by year for review period if available

   From_____ To_____ _____ Γ Breakdown attached
   Date Date Total cost
   From_____ To_____ _____ Γ Breakdown attached
   Date Date Total cost
   From_____ To_____ _____ Γ Breakdown attached
   Date Date Total cost
   From_____ To_____ _____ Γ Breakdown attached
   Date Date Total cost
   From_____ To_____ _____ Γ Breakdown attached
   Date Date Total cost

3. **Unanticipated or Unusually High O&M Costs During Review Period**
   Describe costs and reasons: As the groundwater extraction and treatment systems age, a variety of components may fail unexpectedly.

V. ACCESS AND INSTITUTIONAL CONTROLS Ξ Applicable Γ N/A

A. Fencing

1. **Fencing damaged** Γ Location shown on site map Ξ Gates secured Γ N/A
   Remarks: Fencing surrounding the individual treatment systems is undamaged and in good condition.

B. Other Access Restrictions

1. **Signs and other security measures** Γ Location shown on site map Ξ N/A
   Remarks:

B. Other Site Conditions

Remarks

VII. LANDFILL COVERS Γ Applicable Ξ N/A

A. Landfill Surface

1. **Settlement** (Low spots) Γ Location shown on site map Γ Settlement not evident
   Areal extent_____ Depth_____
   Remarks_____

2. **Cracks** Γ Location shown on site map Γ Cracking not evident
   Lengths_____ Widths_____ Depths_____
   Remarks_____

3. **Erosion** Γ Location shown on site map Γ Erosion not evident
   Areal extent_____ Depth_____
   Remarks_____

4. **Holes** Γ Location shown on site map Γ Holes not evident
   Areal extent_____ Depth_____
   Remarks_____

5. **Vegetative Cover** Γ Grass Γ Cover properly established Γ No signs of stress
   Γ Trees/Shrubs (indicate size and locations on a diagram)
   Remarks_____

6. **Alternative Cover (armored rock, concrete, etc.)** Γ N/A
   Remarks_____

7. **Bulges** Γ Location shown on site map Γ Bulges not evident
   Areal extent_____ Height_____
   Remarks_____

8. **Wet Areas/Water Damage** Γ Wet areas/water damage not evident
   Γ Wet areas Γ Location shown on site map Areal extent_____
   Γ Ponding Γ Location shown on site map Areal extent_____
   Γ Seeps Γ Location shown on site map Areal extent_____
   Γ Soft subgrade Γ Location shown on site map Areal extent_____
   Remarks_____

9. **Slope Instability** Γ Slides Γ Location shown on site map Γ No evidence of slope instability
   Areal extent_____
   Remarks_____

B. Benches Γ Applicable Γ N/A

(Horizontally constructed mounds of earth placed across a steep landfill side slope to interrupt the slope in order to slow down the velocity of surface runoff and intercept and convey the runoff to a lined channel.)

1. **Flows Bypass Bench** Γ Location shown on site map Γ N/A or okay
   Remarks_____

2. **Bench Breached** Γ Location shown on site map Γ N/A or okay
   Remarks_____

3. **Bench Overtopped** Γ Location shown on site map Γ N/A or okay
   Remarks_____

C. Letdown Channels Γ Applicable Γ N/A

(Channel lined with erosion control mats, riprap, grout bags, or gabions that descend down the steep side slope of the cover and will allow the runoff water collected by the benches to move off of the landfill cover without creating erosion gullies.)

1. **Settlement** Γ Location shown on site map Γ No evidence of settlement
   Areal extent_____ Depth_____
   Remarks_____

2. **Material Degradation** Γ Location shown on site map ΓNo evidence of degradation
   Material type_____ Areal extent_____
   Remarks_____

3. **Erosion** Γ Location shown on site map Γ No evidence of erosion
   Areal extent_____ Depth_____
   Remarks_____

4. **Undercutting** Γ Location shown on site map Γ No evidence of undercutting
Areal extent_____ Depth_____
Remarks_____

5. **Obstructions** Type_____ Γ No obstructions
Γ Location shown on site map Areal extent_____
Size_____
Remarks_____

6. **Excessive Vegetative Growth** Type_____
Γ No evidence of excessive growth
Γ Vegetation in channels does not obstruct flow
Γ Location shown on site map Areal extent_____
Remarks_____

D. Cover Penetrations Γ Applicable Γ N/A

1. **Gas Vents** Γ ActiveΓ Passive
Γ Properly secured/locked Γ Functioning Γ Routinely sampled Γ Good condition
Γ Evidence of leakage at penetration Γ Needs Maintenance
ΓN/A
Remarks_____

2. **Gas Monitoring Probes**
Γ Properly secured/locked Γ Functioning Γ Routinely sampled Γ Good condition
Γ Evidence of leakage at penetration Γ Needs Maintenance Γ N/A
Remarks_____

3. **Monitoring Wells** (within surface area of landfill)
Γ Properly secured/locked Γ Functioning Γ Routinely sampled ΓGood condition
Γ Evidence of leakage at penetration Γ Needs Maintenance Γ N/A
Remarks_____

4. **Leachate Extraction Wells**
Γ Properly secured/locked Γ Functioning Γ Routinely sampled Γ Good condition
Γ Evidence of leakage at penetration Γ Needs Maintenance Γ N/A
Remarks_____

5. **Settlement Monuments** Γ Located Γ Routinely surveyed Γ N/A
Remarks_____

E. Gas Collection and Treatment Γ Applicable Γ N/A

1. **Gas Treatment Facilities**
   Γ Flaring Γ Thermal destruction Γ Collection for reuse
   Γ Good condition Γ Needs Maintenance
   Remarks_____

2. **Gas Collection Wells, Manifolds and Piping**
   Γ Good condition Γ Needs Maintenance
   Remarks_____

3. **Gas Monitoring Facilities** (*e.g.*, gas monitoring of adjacent homes or buildings)
   Γ Good condition Γ Needs Maintenance Γ N/A
   Remarks_____

F. Cover Drainage Layer Γ Applicable Γ N/A

1. **Outlet Pipes Inspected** Γ Functioning Γ N/A
   Remarks_____

2. **Outlet Rock Inspected** Γ Functioning Γ N/A
   Remarks_____

G. Detention/Sedimentation Ponds Γ Applicable Γ N/A

1. **Siltation** Areal extent_____ Depth_____ Γ N/A
   Γ Siltation not evident
   Remarks_____

2. **Erosion** Areal extent_____ Depth_____
   ΓErosion not evident
   Remarks_____

3. **Outlet Works** Γ Functioning Γ N/A
   Remarks_____

4. **Dam** Γ Functioning Γ N/A
   Remarks_____

H. Retaining Walls Γ Applicable Γ N/A

1. **Deformations** Γ Location shown on site map Γ Deformation not evident
   Horizontal displacement_____ Vertical displacement_____
   Rotational displacement_____
   Remarks_____

2. **Degradation** Γ Location shown on site map Γ Degradation not evident
   Remarks_____

I. Perimeter Ditches/Off-Site Discharge Γ Applicable Γ N/A

1. **Siltation** Γ Location shown on site map Γ Siltation not evident
   Areal extent_____ Depth_____
   Remarks_____

2. **Vegetative Growth** Γ Location shown on site map Γ N/A
   ΓVegetation does not impede flow
   Areal extent_____ Type_____
   Remarks_____

3. **Erosion** Γ Location shown on site map Γ Erosion not evident
   Areal extent_____ Depth_____
   Remarks_____

4. **Discharge Structure** Γ Functioning ΓN/A
   Remarks_____

VIII. VERTICAL BARRIER WALLS Γ Applicable Ξ N/A

1. **Settlement** Γ Location shown on site map Γ Settlement not evident
   Areal extent_____ Depth_____
   Remarks_____

2. **Performance Monitoring** Type of monitoring_____
   ΓPerformance not monitored
   Frequency_____ Γ Evidence of breaching
   Head differential_____
   Remarks_____

IX. GROUNDWATER/SURFACE WATER REMEDIES Ξ Applicable Γ N/A	
A. Groundwater Extraction Wells, Pumps, and Pipelines Ξ Applicable Γ N/A	
1.	**Pumps, Wellhead Plumbing, and Electrical** Ξ Good condition Ξ All required wells properly operating Γ Needs Maintenance Γ N/A Remarks
2.	**Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances** Ξ Good condition Γ Needs Maintenance Remarks
3.	**Spare Parts and Equipment** Ξ Readily available Ξ Good condition Γ Requires upgrade Γ Needs to be provided Remarks
B. Surface Water Collection Structures, Pumps, and Pipelines Γ Applicable Ξ N/A	
1.	**Collection Structures, Pumps, and Electrical** Γ Good condition Γ Needs Maintenance Remarks
2.	**Surface Water Collection System Pipelines, Valves, Valve Boxes, and Other Appurtenances** Γ Good condition Γ Needs Maintenance Remarks
3.	**Spare Parts and Equipment** Γ Readily available Γ Good condition Γ Requires upgrade Γ Needs to be provided Remarks

C. Treatment System Ξ Applicable Γ N/A

1. **Treatment Train** (Check components that apply)
Γ Metals removal Γ Oil/water separation Γ Bioremediation
Ξ Air stripping Γ Carbon adsorbers
Γ Filters Sediment _____
Γ Additive (*e.g.*, chelation agent, flocculent)_____
Γ Others_____
Ξ Good condition Γ Needs Maintenance
Ξ Sampling ports properly marked and functional
Ξ Sampling/maintenance log displayed and up to date
Ξ Equipment properly identified
Ξ Quantity of groundwater treated annually: See Annual Summary Status Report – June 1, 2013 to June 1, 2014
Γ Quantity of surface water treated annually_____
Remarks

2. **Electrical Enclosures and Panels** (properly rated and functional)
Γ N/A Ξ Good conditionΓ Needs Maintenance
Remarks_____

3. **Tanks, Vaults, Storage Vessels**
Γ N/A ΞGood condition Ξ Proper secondary containment Γ Needs Maintenance
Remarks_____

4. **Discharge Structure and Appurtenances**
ΓN/A Ξ Good conditionΓ Needs Maintenance
Remarks_____

5. **Treatment Building(s)**
Γ N/A Ξ Good condition (esp. roof and doorways) Γ Needs repair
Ξ Chemicals and equipment properly stored
Remarks_____

6. **Monitoring Wells** (pump and treatment remedy)
Ξ Properly secured/locked Ξ Functioning Ξ Routinely sampled Ξ Good condition
Ξ All required wells located Γ Needs Maintenance Γ N/A
Remarks_____

D. Monitoring Data

1. Monitoring Data
Ξ Is routinely submitted on time Ξ Is of acceptable quality

2. Monitoring data suggests:
Ξ Groundwater plume is effectively contained Ξ Contaminant concentrations are declining

D. Monitored Natural Attenuation

1. **Monitoring Wells** (natural attenuation remedy)

Γ Properly secured/locked Γ Functioning Γ Routinely sampled Γ Good condition
Γ All required wells located Γ Needs Maintenance Ξ N/A
Remarks_____

X. OTHER REMEDIES

If there are remedies applied at the site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction.

XI. OVERALL OBSERVATIONS

A. Implementation of the Remedy

Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.).

Please see the Final Five Year Review Report for a complete description of the various remedies implemented at the Charles Macon Lagoon & Drum Storage NPL Site located in Cordova NC. The groundwater remedy as stated in the ROD was to extract groundwater and treat the contaminated groundwater on site via an air stripper and filtration, and discharge the treated water to an infiltration gallery. Four separate remediation systems were constructed for the following areas: Macon Source Area; Upper/Lower Macon; Upper Dockery; and, Lower Dockery. In February 1995, the US EPA and the North Carolina Department of Natural Resources (NC DENR) approved for the treated groundwater to be discharged from the air stripper directly to the infiltration gallery without treatment for metals. All four of the groundwater treatment systems became fully operational in February 1996. On March 19, 2004, the Lower Dockery extraction and treatment system was suspended with the approval of the US EPA and the NC DENR. Currently, the Macon Source Area, the Upper/Lower Macon and the Upper Dockery remediation systems are functioning and operating as designed.

B. Adequacy of O&M

Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy.

Currently the O&M is protective of human health and the environment in that direct contact with contaminated groundwater is prevented through the fact that groundwater extraction for potable use is prohibited. However the remedy is not protective in the long term because proper institutional controls in the form of permanent land use restrictions have not been developed and recorded and is therefore not enforceable upon subsequent landowners.

C.	**Early Indicators of Potential Remedy Problems**
	Describe issues and observations such as unexpected changes in the cost or scope of O&M or a high frequency of unscheduled repairs that suggest that the protectiveness of the remedy may be compromised in the future. Although costs have fluctuated due to unanticipated costs associated with O&M, there is no indication that the protectiveness of the remedy is or will be compromised, as long as the institutional controls in the form of permanent land use restrictions are completely implemented.
D.	**Opportunities for Optimization**
	Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy. O&M should continue into the future and should continue to evaluate opportunities for optimization in which the remedy may be completed in a shorter timeframe or at a lesser overall cost.

Please note that "O&M" is referred to throughout this checklist. At sites where Long-Term Response Actions are in progress, O&M activities may be referred to as "system operations" since these sites are not considered to be in the O&M phase while being remediated under the Superfund program.

Photographs

APPENDIX C
Public Notice and Interviews

THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA), REGION 4 ANNOUNCES THE FOURTH FIVE-YEAR REVIEW OF THE CHARLES MACON LAGOON AND DRUM STORAGE SITE LOCATED IN CORDOVA, NORTH CAROLINA

EPA is conducting a Five-Year Review of the remedy for the Charles Macon Lagoon and Drum Storage Site, also known as the Macon Dockery Site (Site). This Site is located off Old Cheraw Highway in Cordova, North Carolina. The purpose of the Five-Year Review is to make sure the selected cleanup actions continue to effectively protect human health and the environment.

The Charles Macon Lagoon and Drum Storage Site is comprised of two non-contiguous, independently owned parcels of land: a 40-acre tract owned by the Macon's and a one-acre tract owned by the Dockery's. The business operated from 1979 until 1982 as a waste oil recycling and antifreeze manufacturing facility located on State Road 1103 in Richmond County. Wastes from the processes were dumped into lagoons on the property as well as placed into 55-gallon drums. The Site was placed on the National Priorities List in July 1987. Clean-up of the soil has been completed. The groundwater treatment system continues to effectively remove volatile organic contaminants and has been operating since 1996.

EPA plans to complete the review in May 2015 and will place a copy of the final report in the information repository located at the Leath Memorial Library, 412 East Franklin Street, Rockingham, North Carolina, for the public to review.

Additional site information can be found online at:
http://www.epa.gov/region4/superfund/sites/npl/northcarolina/chmaclgnc.html

CONTACT INFORMATION:
Giezelle Bennett, EPA Remedial Project Manager bennett.giezelle@epa.gov or Angela Miller, EPA Community Involvement Coordinator miller.angela@epa.gov. You may also call toll free (877) 718-3752.

APPENDIX D

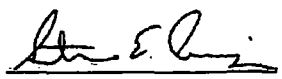
Annual Summary Status Report
June 2013 - June 2014

MACON/DOCKERY SITE
CORDOVA, RICHMOND COUNTY
NORTH CAROLINA
ANNUAL SUMMARY STATUS REPORT
JUNE 1, 2013 TO JUNE 1, 2014

Prepared for:
The Macon/Dockery Site Group

Prepared By:
Irminger Consulting, Inc.
7015 Erinbrook Drive
Concord, North Carolina 28025

September 26, 2014
IC PROJECT NO.: 0004-001



Steven E. Irminger, P.E.
Project Manager

Annual Status Report
September 26, 2014

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MACON/DOCKERY SITE
CORDOVA, RICHMOND COUNTY, NORTH CAROLINA
ANNUAL STATUS REPORT
JUNE 1, 2013 TO JUNE 1, 2014

1.0 Introduction

The following document is the 2013/2014 annual status report for the Macon/Dockery Superfund project in Cordova, Richmond County, North Carolina. This report satisfies the requirement for an annual summary status report set forth in the Unilateral Administrative Order For Remedial Design and Remedial Action, Section XV Part D, dated June 18, 1992.

For site history and background information the reader is referred to the Remedial Investigation / Feasibility Study (RI/FS) completed in 1991. Since start-up, several modifications to the operation and maintenance requirements have been approved by the EPA and North Carolina Department of Environment and Natural Resources (DENR). These modifications have included reduction of the sample analytical frequency and parameters as well as the suspension of the soil vapor extraction system, and Lower Dockery and Lower Macon groundwater extraction systems. These modifications are summarized in the three Five Year Status Review Reports prepared by EPA and DENR dated September 2000, September 2005, and April 2010.

2.0 System Performance Review

The remedial systems started operation during the week of February 12, 1996. The following sections summarize performance data for the remedial systems, and operational difficulties encountered during the reporting period (June 1, 2013 to June 1, 2014).

2.1 Flow Rates and Totals

System flow total data are recorded on a weekly basis from the remedial systems. Monthly flow rates and totals for each groundwater system are summarized in **Table 1**. For the reporting period June 1, 2013 to June 1, 2014 the system flow totals are as follows:

- Upper Dockery 4,187,183 gallons
- Lower Dockery 0 gallons (System Suspended)
- Macon Source Area 1,998,381 gallons
- Upper Macon 8,401,274 gallons
- Lower Macon 0 gallons (System Suspended)

2.2 Percent Operational

System downtime is recorded on a daily basis and summarized on the monthly progress reports. A summary of the operational time, expressed as a percent of the total time, is contained in **Table 2**. The following is the average percent each area operated during the reporting period of June 1, 2013 to June 1, 2014:

- Upper Dockery 95 percent

- Lower Dockery — 0 percent (Lower Dockery System suspended on 3-19-04)
- Macon Source Area — 86 percent
- Upper Macon — 88 percent
- Lower Macon — 0 percent (Lower Macon System suspended on 5-20-2010)
- SVE System — 0 percent (SVE System suspended July 2001)

2.3 Operational Difficulties Encountered and Corrective Actions

Several difficulties were encountered during the reporting period that affected the operation of the remedial systems at the Macon/Dockery site. The following sections describe the difficulties encountered system-wide and at individual sites.

2.3.1 General Operational Difficulties

The following general operational difficulties were experienced during the reporting period:

- 1/21/2014 – 1/28/2014: The Macon Source and Upper Macon remediation system were down upon arrival because of a high sump alarm caused by frozen effluent lines. The insulation and heat trace line was repositioned and both systems were restarted on 1/28/2014.
- 4/12/2014 – 4/19/2014: The Upper Dockery, Macon Source, and Upper Macon remediation systems were down upon arrival because of tripped line breakers. Pee Dee Electric reset the breakers and the systems were restarted on 4/19/2014.
- 5/19/2014 – 5/25/2014: The Macon Source and Upper Macon remediation

systems were down upon arrival because of a tripped line breaker. Pee Dee Electric reset the breaker and the systems were restarted on 5/25/2014.

The Lower Macon, Lower Dockery, and SVE systems have been suspended.

2.3.2 Operational Difficulties at Individual Sites

The following section briefly summarizes difficulties and their corrective actions taken at individual Macon/Dockery remedial systems.

Upper Dockery

- 8/5/2013 – 8/7/2013: The Upper Dockery remediation system was down upon arrival because of a tripped breaker to the blower. The breaker was reset and the system restarted on 8/7/2013.
- 10/29/2013 – 10/31/2013: The Upper Dockery remediation system was down upon arrival because of a tripped breaker to the blower. The breaker was reset and the system restarted on 10/31/2013.
- 3/16/2014 – 3/25/2014: The Upper Dockery remediation system was turned off because of a malfunctioning fan motor. The motor was repaired and the system restarted on 3/25/2014.
- 4/12/2014 – 4/19/2014: The Upper Dockery remediation system was down upon arrival because of a tripped line breaker. Pee Dee Electric reset the breaker and the system was restarted on 4/19/2014.

Lower Dockery

- System suspended.

Macon Source Area

- 6/18/2013 – 7/16/2013: The Macon Source remediation system was down upon arrival because of a malfunctioning blower motor. The blower and motor were removed. A new blower was ordered and attached to the blower. On July 16, 2013, the blower and motor were installed and the system restarted.
- 9/17/2013-9/19/2013: The Macon Source remediation system was down upon arrival because of a low pressure alarm. The blower intake screen was cleaned and the system restarted on September 19, 2013.
- 12/13/2013 – 12/15/2013: The Macon Source remediation system was down upon arrival because of a tripped main breaker. The breaker was reset and the system restarted on 12/15/2013.
- 1/21/2014 – 1/28/2014: The Macon Source remediation system was down upon arrival because of a high sump alarm caused by a frozen effluent line. The insulation and heat trace line was repositioned and the system was restarted on 1/28/2014.
- 4/12/2014 – 4/19/2014: The Macon Source remediation system was down upon arrival because of a tripped line breaker. Pee Dee Electric reset the breaker and the system was restarted on 4/19/2014.

- 5/19/2014 – 5/25/2014: The Macon Source remediation system was down upon arrival because of a tripped line breaker. Pee Dee Electric reset the breaker and the system was restarted on 5/25/2014.

Upper Macon

- 6/10/2013-6/25/2013: The Upper Macon remediation system was off upon arrival because of a tripped circuit breaker on the blower. The water system tank was found to be empty. The system tank was filled and the system was restarted on 6/25/2013.
- 8/8/2013 – 8/12/2013: The Upper Macon remediation system was turned off to repair a leaking influent pipe. The pipe was repaired on 8/10/2013 and the system was restarted on 8/12/2013.
- 11/15/2013-11/17/2013: The Upper Macon remediation system was off upon arrival because of a high-level alarm in the sump. The flow meter was cleaned and the system was restarted on 11/17/2013.
- 1/21/2014 – 1/28/2014: The Upper Macon remediation system was down upon arrival because of a high sump alarm caused by a frozen effluent line. The insulation and heat trace line was repositioned and the system was restarted on 1/28/2014.

- 4/12/2014 – 4/19/2014: The Upper Macon remediation system was down upon arrival because of a tripped line breaker. Pee Dee Electric reset the breaker and the system was restarted on 4/19/2014.
- 5/1/2014 – 5/3/2014: The Upper Macon remediation system was turned off 5/1/2014 because of a damaged shear element. A new shear element was installed on 5/3/2014 and the system restarted.
- 5/19/2014 – 5/25/2014: The Upper Macon remediation system was down upon arrival because of a tripped line breaker. Pee Dee Electric reset the breaker and the system was restarted on 5/25/2014.

2.4 System Modifications

No system modifications were proposed or implemented during the reporting period.

2.5 Effluent Concentrations

A measure of the system performance can be made based on the system's ability to reduce influent concentrations to remedial performance standards. Because system effluent is directed to an infiltration gallery, effluent concentrations are designed to be no greater than the remediation goals established for groundwater at the site. The analytical results of effluent water samples collected from the remedial systems are summarized in **Tables 3 through 6**.

2.5.1 Inorganic Parameter Exceedances

During the reporting period, the effluent sample inorganic analytical results have been below the performance standard concentrations.

2.5.2 VOC Exceedances

Based on the analytical reports of samples collected from the system effluent ports, there have been no exceedances of VOC's in system effluent during the reporting period.

2.6 Influent Concentrations

Water samples were collected from the influent ports of the remedial systems on a semi-annual basis. A summary of the influent sample analytical results is included in **Tables 7 through 10**.

3.0 System Effectiveness

System effectiveness at reducing contaminant concentrations at the site is indicated by periodic groundwater elevation measurements and groundwater and air samples. The sampling frequency and analytical parameters were conducted as stipulated in the recommendations of the Year 2000, 2005, and 2010, Five Year Review Reports prepared by the USEPA Region IV office. Groundwater elevation measurements and groundwater samples were collected from the monitoring wells in August 2014. Remediation system influent samples were collected on a semi-annual basis during the reporting period. Air samples collected from the air exhaust stacks of the groundwater remediation systems and the ambient air at the property line and remediation system effluent water samples were collected annually during the reporting period.

A summary of the groundwater level measurements and calculated groundwater elevations is included in **Table 11**. A summary of the analytical results reported for the groundwater samples collected from the monitoring wells is included in **Table 12**. Monitoring well MW-23 could not be located on August 14, 2014, because of dense vegetation. Groundwater from monitoring well MW-23 will be sampled in the winter and the results submitted under separate cover. Air analytical results from the air exhaust stacks of the remedial systems and ambient site air are summarized in **Table 13**.

Mass removal estimates are calculated for each of the remedial systems on a quarterly basis. The estimates are based on quarterly flow volume and semi-annual influent concentration data. A

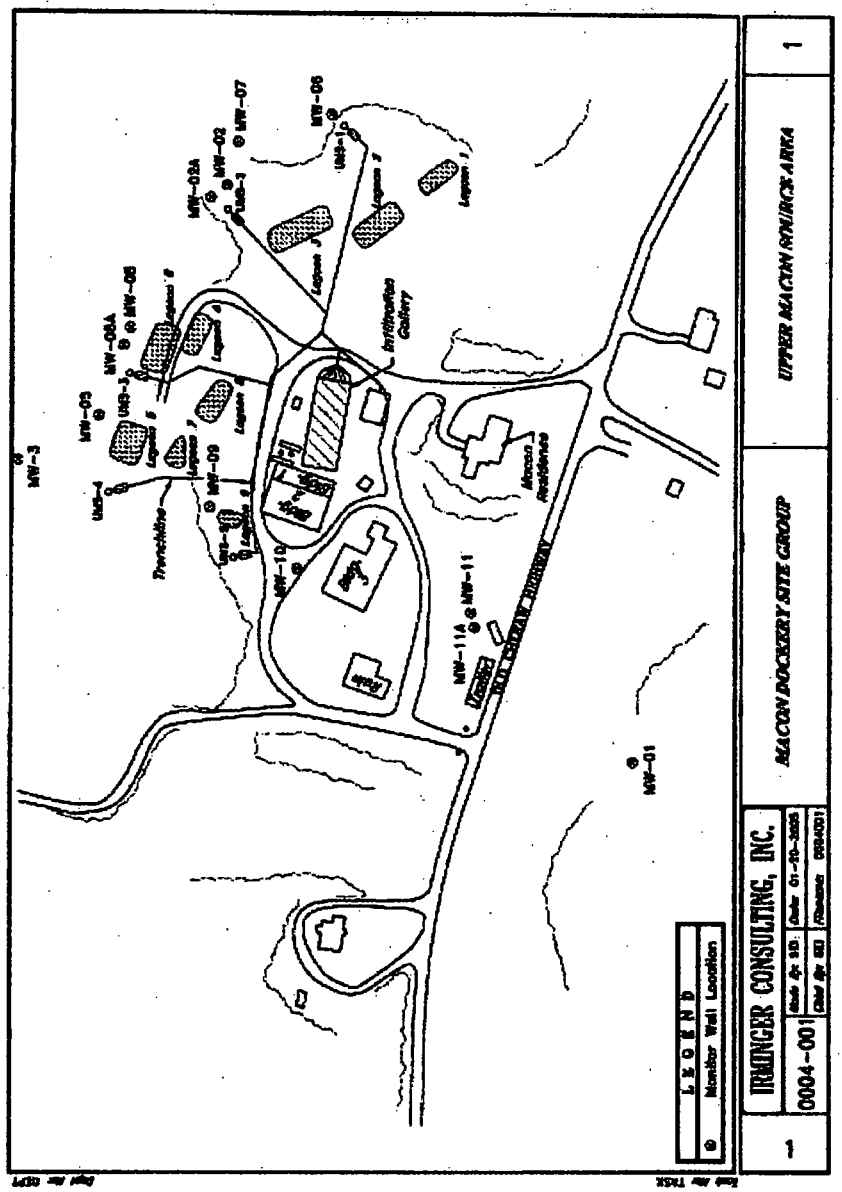
summary of the mass removal estimates for the remedial systems is included in **Table 14**. Based on the mass removal estimates, the remediation systems at the Macon/Dockery site are effectively remediating the subsurface target parameters.

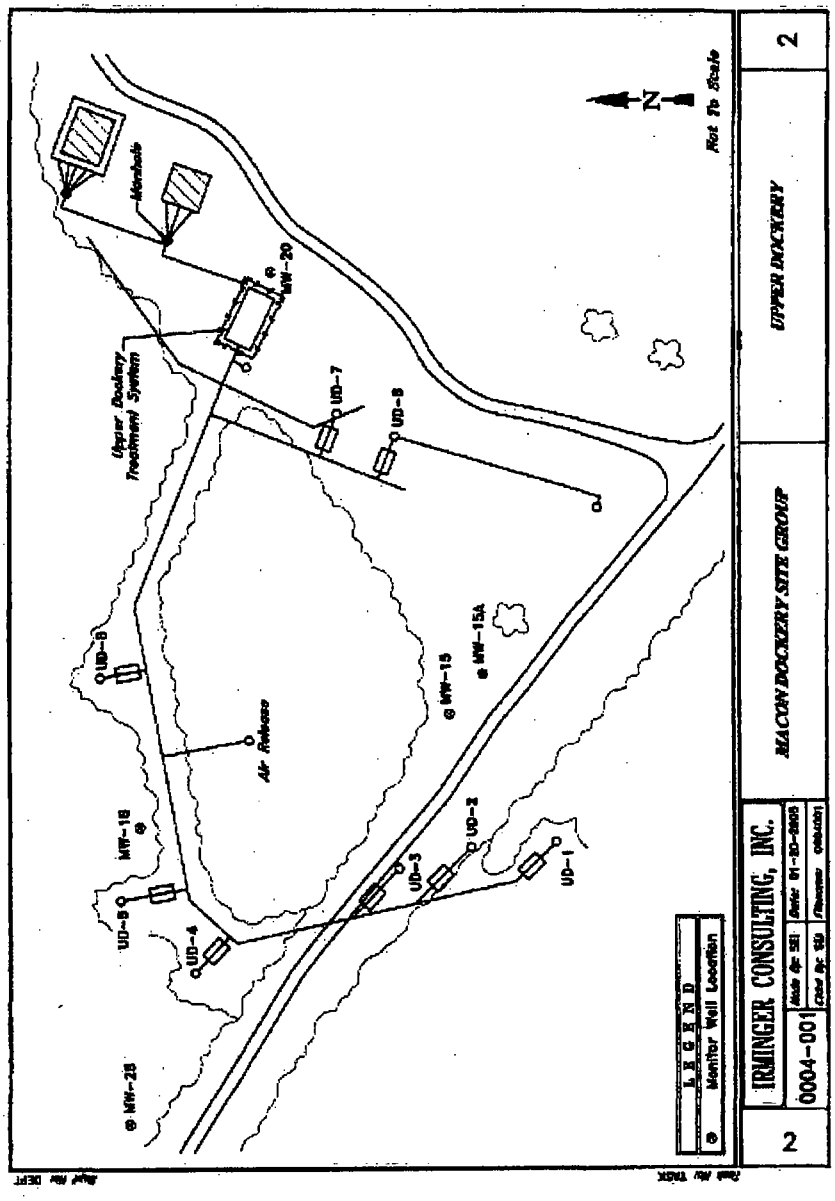
4.0 Schedule

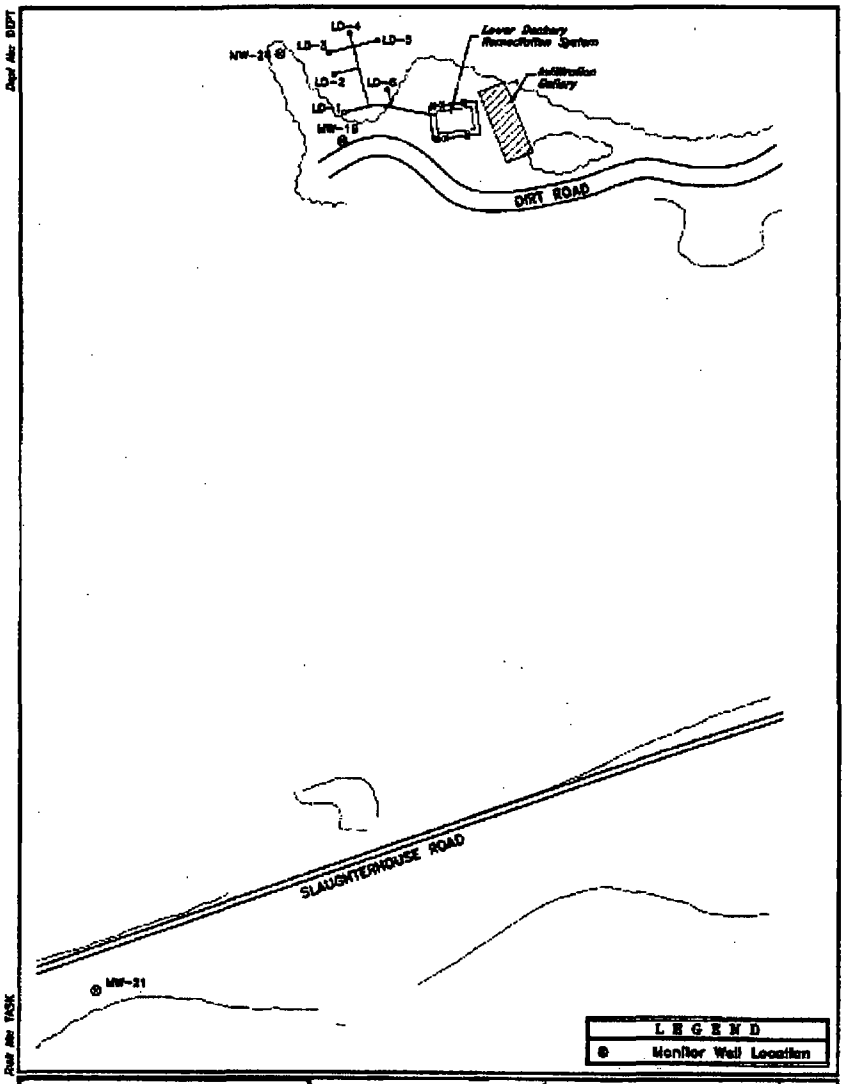
The following details the proposed schedule for the Macon/Dockery site tasks:

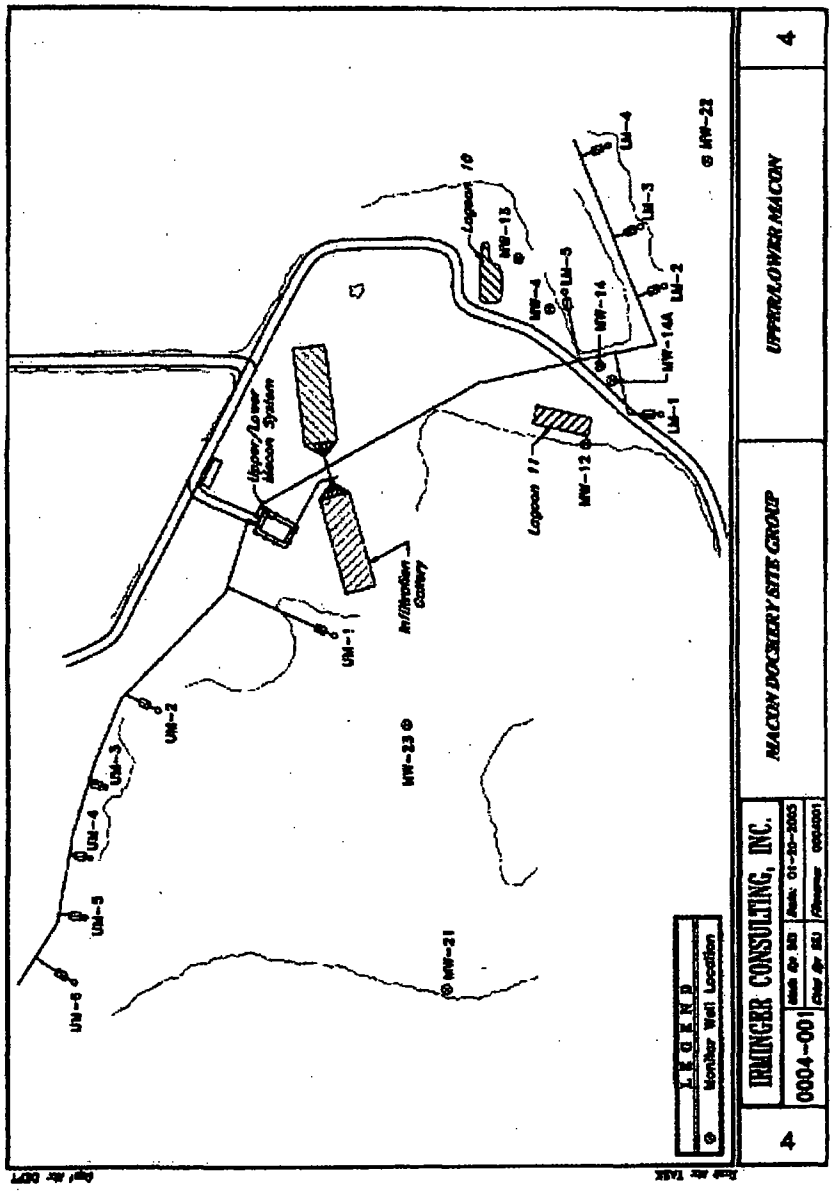
- A sample schedule is provided on **Table 15**. The sample is based on the recommendations of the Year 2000, 2005, and 2010 Five Year Review Reports prepared by the USEPA Region IV office and the DENR;
- The approved operation and maintenance (O&M) program will continue to include weekly site visits;
- Progress status reporting will continue to be submitted to the EPA each quarter;
- The next annual summary status report will summarize the period June 1, 2014 to June 1, 2015.

FIGURES


MACON ROCKERY SITE GROUP
UPPER MACON NW/NE AREA
IRRINGER CONSULTING, INC.
0004-001
LEGEND
Monitor Well Location
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
MW-8
MW-9
MW-10
MW-11
MW-11A
MW-01
Macon Residence
Interceptor Gallery
Trenchline
Lagoon 1
Lagoon 2
Lagoon 3
Lagoon 4
Lagoon 5
Lagoon 6
Lagoon 7
Lagoon 8
Lagoon 9
Lagoon 10


N
Not To Scale
Upper Dockery Treatment System
Manhole
MW-20
UD-7
UD-8
UD-6
MW-15A
MW-15
Air Release
MW-16
UD-5
UD-4
UD-3
UD-2
UD-1
MW-25
LEGEND
Monitor Well Location
TRINGER CONSULTING, INC.
0004-001
UPPER DOCKERY
MACON DOCKERY SITE GROUP
2
2


LD-4
LD-3
LD-5
MW-24
LD-2
LD-6
LD-1
MW-18
Lower Dockery Recreation System
Infiltration Gallery
DIRT ROAD
SLAUGHTERHOUSE ROAD
MW-21
LEGEND
Monitor Well Location
IRMINGER CONSULTING, INC.
0004-001
MACON DOCKERY SITE GROUP
LOWER DOCKERY
3


Upper/Lower Macon System
Lagoon 10
Lagoon 11
MW-13
MW-4
LM-5
MW-14
MW-14A
LM-4
LM-3
LM-2
LM-1
MW-22
MW-12
MW-23
MW-21
UM-1
UM-2
UM-3
UM-4
UM-5
UM-6
LEGEND
Monitor Well Location
IRMINGER CONSULTING, INC.
0004-001
MACON DOCKERY SITES GROUP
UPPER/LOWER MACON
4

TABLES

TABLE 1
SUMMARY OF GROUNDWATER FLOW TOTALS
MACON/DOCKERY SITE Page 1 of 5

	Upper Dockery			Lower Dockery			Macon Source Area			Upper/Lower Macon		
Date	Monthly Flow (gallons)	Total Flow (gallons)	Monthly Average Flow Rate (gallons per minute)	Monthly Flow (gallons)	Total Flow (gallons)	Monthly Average Flow Rate (gallons per minute)	Monthly Flow (gallons)	Total Flow (gallons)	Monthly Average Flow Rate (gallons per minute)	Monthly Flow (gallons)	Total Flow (gallons)	Monthly Average Flow Rate (gallons per minute)
Mar-95	400,156	400,156	9.3	328,448	328,448	7.6	426,063	426,063	9.9	375,318	375,318	8.7
Apr-95	288,151	688,306	6.6	191,095	519,338	4.4	364,772	789,855	8.4	709,726	1,085,044	16.4
May-95	65,529	753,132	1.5	246,716	766,253	5.7	257,720	1,048,575	6.0	482,239	1,567,284	11.2
Jun-95	97,350	850,482	2.3	8,619	773,872	0.2	114,048	1,162,623	2.8	48,305	1,615,589	1.1
Jul-95	163,426	1,013,908	3.8	151,837	925,699	3.5	202,477	1,365,100	4.7	759,920	2,375,489	17.6
Aug-95	218,330	1,232,238	5.1	126,232	1,051,931	2.9	207,863	1,572,803	4.8	638,400	3,013,889	14.8
Sep-95	149,420	1,381,658	3.5	63,533	1,115,784	1.5	209,649	1,782,252	4.9	302,505	3,316,394	7.0
Oct-95	140,191	1,521,849	3.2	460,379	1,576,143	10.7	101,512	1,883,764	2.3	640,790	3,957,184	14.8
Nov-95	438,013	1,959,862	10.1	183,210	1,759,353	4.2	118,354	2,000,118	2.7	871,155	4,828,339	20.2
Dec-95	161,903	2,121,765	3.7	137,894	1,896,947	3.2	137,045	2,137,163	3.2	726,548	5,553,888	16.8
Jan-97	294,071	2,415,836	6.8	286,302	2,183,149	6.6	146,036	2,283,199	3.4	596,131	6,149,988	13.8
Feb-97	267,988	2,683,432	6.2	90,912	2,274,061	2.1	215,730	2,498,929	5.0	795,239	6,945,225	18.4
Mar-97	250,088	2,933,500	5.8	277,823	2,551,884	6.4	223,222	2,722,151	5.2	939,710	7,884,938	21.8
Apr-97	276,556	3,210,056	6.4	180,580	2,732,444	4.2	253,767	2,975,918	5.9	916,080	8,803,018	21.3
May-97	266,838	3,469,894	6.7	684,856	3,417,299	16.8	223,177	3,199,095	5.2	999,040	9,802,058	23.1
Jun-97	130,575	3,635,369	3.1	501987	3,919,286	11.6	234858	3,433,194	5.4	605792	10,407,850	14.0
Jul-97	99890	3,735,485	2.3	581027	4,500,313	13.4	117736	3,550,900	2.7	223656	10,631,706	5.2
Aug-97	70957	3,806,432	1.6	414199	4,914,512	9.6	90345	3,641,146	1.2	911678	11,543,386	21.1
Sep-97	52236	3,858,668	1.2	481048	5,395,561	11.1	36284	3,677,412	0.8	917631	12,461,019	21.2
Oct-97	277805	4,136,193	6.4	457804	5,853,185	10.6	70207	3,707,619	1.6	821135	13,282,154	19.0
Nov-97	143168	4,279,361	3.3	308483	6,161,648	7.1	102328	3,809,945	2.4	140798	13,422,950	3.3
Dec-97	76332	4,357,693	1.8	272079	6,433,727	6.3	114482	3,924,397	2.6	844298	14,267,248	19.5
Jan-98	163866	4,461,561	2.4	766548	7,220,276	18.2	178387	4,102,784	4.1	5316582	14,798,941	12.3
Feb-98	295588	4,756,349	6.9	123013	7,343,288	2.8	178387	4,281,171	4.1	1051662	15,848,843	24.3
Mar-98	326525	5,084,774	7.6	287027	7,630,315	6.6	145526	4,426,697	3.4	932286	16,783,289	21.8
Apr-98	419475	5,504,248	9.7	452536	8,082,850	10.5	600075	5,026,772	13.9	662272	17,444,481	15.3
May-98	440446	5,944,695	10.2	141938	8,224,788	3.3	419805	5,437,577	9.5	876845	18,321,436	20.3
Jun-98	200192	6,144,887	4.6	453014	8,677,800	10.8	431360	5,869,037	10.0	448658	18,769,482	10.4
Jul-98	337044	6,481,931	7.8	504880	9,182,680	11.7	329835	6,198,872	7.6	776185	19,545,677	18.0
Aug-98	432719	6,914,694	10.0	453131	9,635,791	10.5	473983	6,671,855	11.0	857122	20,402,799	19.8
Sep-98	411677	7,326,331	9.5	581461	10,227,272	13.7	513998	7,186,833	11.9	821434	21,224,223	19.0
Oct-98	439376	7,765,709	10.2	471729	10,699,001	10.9	483848	7,679,582	11.4	718643	21,942,766	16.6
Nov-98	362886	8,128,595	8.4	642213	11,341,214	14.9	496879	8,176,362	11.8	251141	22,193,907	5.8
Dec-98	500450	8,629,745	11.6	416550	11,758,764	9.6	371834	8,550,176	8.6	713292	22,907,139	16.5
Jan-99	552796	9,181,541	12.8	358951	12,117,915	8.4	337877	8,888,053	7.8	836206	23,743,345	19.3
Feb-99	534360	9,715,901	12.1	522107	12,638,022	12.1	384124	9,272,177	8.9	586678	24,328,024	13.6
Mar-99	614841	10,330,742	14.2	622194	13,262,116	14.4	539625	9,812,102	12.5	1035883	25,364,817	24.0
Apr-99	571148	10,891,910	13.2	704282	13,966,408	16.3	431729	10,243,831	10.0	894762	26,259,580	20.7
May-99	524348	11,416,259	12.1	581688	14,548,096	13.5	368443	10,632,274	9.0	828049	27,087,629	19.2
Jun-99	431,742	11,848,001	10.0	427,906	14,976,001	9.9	409,066	11,041,340	9.5	809,334	27,896,963	18.7
Jul-99	392,518	12,240,519	9.1	473,996	15,449,996	11.0	502,412	11,543,752	11.6	582,110	28,479,073	13.5
Aug-99	190,407	12,430,926	4.4	226,628	15,676,627	5.2	228,524	11,772,276	5.3	635,228	29,114,288	14.7
Sep-99	303,910	12,734,836	7.0	459,303	16,135,930	10.6	630,216	12,592,791	18.0	768,831	29,883,130	17.8
Oct-99	384,213	13,099,049	8.4	591,217	16,727,147	13.7	530,478	13,123,269	12.3	894,735	30,777,865	20.7
Nov-99	277,055	13,376,104	8.4	484,502	17,191,649	16.8	390,353	13,513,622	9.0	646,405	31,424,270	15.0
Dec-99	369,943	13,766,047	8.0	447,951	17,639,600	10.4	543,545	14,057,167	12.6	575,397	31,999,667	13.3
Jan-00	236,753	14,002,780	5.3	563,520	18,143,120	11.7	170,316	14,227,483	3.9	261,656	33,261,326	6.1
Feb-00	0	14,002,780	0.0	95,167	18,238,287	2.2	357,845	14,585,328	8.3	161,186	32,422,481	3.7
Mar-00	176,509	14,179,289	4.1	235,556	18,473,843	5.5	339,782	14,925,105	7.9	308,952	32,731,433	7.2

Note: Monthly average based on 30-day months

TABLE 1
SUMMARY OF GROUNDWATER FLOW TOTALS
MACON/DOCKERY SITE Page 2 of 5

Date	Upper Dockery			Lower Dockery			Macon Source Area			Upper/Lower Macon		
	Monthly Flow (gallons)	Total Flow (gallons)	Monthly Average (gallons per minute)	Monthly Flow (gallons)	Total Flow (gallons)	Monthly Average (gallons per minute)	Monthly Flow (gallons)	Total Flow (gallons)	Monthly Average (gallons per minute)	Monthly Flow (gallons)	Total Flow (gallons)	Monthly Average (gallons per minute)
Apr-00	156,914	14,344,353	3.6	212,338	18,884,181	4.9	331,270	15,203,375	7.7	416,369	33,147,802	8.6
May-00	419,400	14,763,703	9.7	465,788	19,171,970	11.2	151,212	15,403,587	3.5	127,287	33,275,289	3.0
Jun-00	104,656	14,868,361	2.4	382,997	19,554,967	8.9	300,123	15,703,710	6.9	887,951	33,683,360	14.1
Jul-00	80,000	14,948,361	1.9	500,849	20,055,816	11.6	231,991	15,935,701	5.4	425,691	34,309,041	9.9
Aug-00	133,675	15,081,936	3.1	284,722	20,340,538	6.6	188,494	16,122,195	4.3	380,931	34,689,972	8.8
Sep-00	129,206	15,211,142	3.0	587,633	20,928,171	13.6	84,780	16,206,975	2.0	918,139	35,608,111	21.3
Oct-00	146,404	15,358,546	3.4	512,427	21,440,598	11.9	160,071	16,367,046	4.2	242,990	35,852,101	5.6
Jan-01	615,791	15,975,337	14.3	769,926	22,210,524	17.8	526,024	16,913,070	12.2	200,354	36,052,455	4.6
Apr-01	526,427	16,501,734	12.2	125,868	22,336,513	2.9	261,880	17,174,930	6.1	145,019	36,197,474	3.4
Jun-01	169,361	16,858,095	3.6	203,758	22,540,271	4.7	53,074	17,228,004	1.2	129,462	36,326,936	3.0
Jul-01	144,179	16,802,274	3.2	537	22,540,908	0.01	214	17,228,218	0.01	368,730	36,695,666	8.3
Aug-01	28,492	16,828,766	0.6	83,534	22,624,442	1.9	48,395	17,276,613	1.1	273,004	36,968,280	6.1
Sep-01	48,380	16,874,146	1.1	0	22,624,442	0.0	47,900	17,324,513	1.1	1,148,865	38,118,126	28.6
Oct-01	324,413	17,198,559	7.3	95,880	22,720,322	2.1	81,038	17,405,551	1.8	825,354	38,943,479	18.5
Nov-01	246,267	17,447,826	5.6	754	22,721,056	0.02	43,229	17,480,780	1.1	1,263,471	40,206,950	29.3
Dec-01	130,840	17,578,666	2.9	951	22,722,007	0.02	42,690	17,493,570	1.0	1,713,972	41,920,922	39.4
Jan-02	91,030	17,669,496	2.0	0	22,722,007	0.0	22,838	17,516,508	0.5	2,249,316	44,170,238	50.3
Feb-02	78,950	17,748,456	1.9	22,769	22,744,786	0.6	38,615	17,555,124	1.0	2,498,330	46,668,568	62.0
Mar-02	106,446	17,854,906	2.4	103,228	22,849,994	2.4	20,866	17,577,112	0.5	1,816,814	48,287,382	36.3
Apr-02	60,434	17,915,338	1.4	583	22,850,557	0.01	27,720	17,604,832	0.6	3,549,879	51,837,261	82.1
May-02	0	17,915,338	0.0	80,788	22,931,353	1.8	30,537	17,635,369	0.7	780,940	52,587,801	16.8
Jun-02	41,733	17,957,071	1.0	321,894	23,253,247	7.5	53,990	17,689,359	1.5	309,861	52,987,752	6.8
Jul-02	37,189	17,994,260	0.8	71,807	23,325,054	1.7	53,125	17,752,484	1.2	180,285	53,136,027	4.2
Aug-02	19,730	18,013,990	0.4	128	23,325,180	0.0	89,000	17,841,484	2.1	116,980	53,253,987	2.7
Sep-02	44,413	18,058,403	1.0	117,737	23,442,917	2.7	74,000	17,915,484	1.7	456,200	53,709,267	10.5
Oct-02	37,597	18,096,000	0.8	42,549	23,485,466	1.0	99,381	18,014,865	2.3	2,880	53,710,987	0.1
Nov-02	26,369	18,122,369	0.6	0	23,485,466	0.0	18,621	18,033,486	0.4	126,346	53,837,213	2.8
Dec-02	2,997	18,126,366	0.1	0	23,485,466	0.0	5,340	18,038,826	0.1	147	53,837,360	0.0
Jan-03	3,849	18,129,215	0.1	7,031	23,492,497	0.2	55,446	18,094,271	1.3	0	53,837,360	0.0
Feb-03	64,620	18,193,835	1.6	671	23,493,168	0.0	12,198	18,106,470	0.3	12,376	53,849,736	0.3
Mar-03	48,883	18,242,458	1.1	38,766	23,531,934	0.9	27,916	18,134,386	0.6	1,282,416	55,129,152	29.7
Apr-03	14,800	18,257,088	0.3	473,838	24,005,762	11.0	58,337	18,192,723	1.4	1,250,620	56,379,772	28.9
May-03	23,759	18,280,847	0.5	443,672	24,449,434	10.3	4,106	18,196,829	0.1	410,303	56,787,075	9.5
Jun-03	unknown	unknown	unknown	202,062	24,651,516	5.0	5,807	18,226,435	0.2	264,762	57,041,837	6.3
Jul-03	unknown	unknown	unknown	366,221	25,017,737	7.3	12,820	18,217,466	0.2	351,870	57,393,507	8.1
Aug-03	unknown	unknown	unknown	unknown	unknown	unknown	2,348	18,219,805	0.1	123,588	57,517,095	3.2
Sep-03	unknown	unknown	unknown	488,977	25,514,714	10.2	16,700	18,236,505	0.3	820	57,517,915	0.0
Oct-03	166,199	18,467,048	4.3	408,886	25,923,400	9.5	49,700	18,286,205	1.2	356,977	57,874,892	8.3
Nov-03	200,863	18,667,909	5.4	250,082	26,173,482	8.7	286,800	18,582,005	7.9	421,880	58,296,172	11.3
Dec-03	205,728	18,874,638	4.1	126,180	26,299,662	2.5	420,100	19,002,105	8.3	972,180	59,268,352	19.3
Jan-04	273,606	19,148,244	5.1	283,390	26,583,052	6.3	349,000	19,348,105	7.8	981,288	60,249,640	22.6
Feb-04	225,059	19,376,313	5.1	378,808	26,962,840	8.5	329,487	19,677,572	7.4	1,295,954	61,545,264	31.3
Mar-04	189,044	19,565,357	4.2	154,864	27,117,704	3.5	283,403	19,970,974	6.6	1,379,334	62,923,598	30.9
Apr-04	166,462	19,731,819	4.0	System		Suspended	226,252	20,197,226	5.4	1,267,057	64,290,645	30.3
May-04	131,544	19,863,363	2.8	System		Suspended	248,226	20,445,452	5.2	1,280,373	65,571,018	26.9
Jun-04	219,549	20,082,912	5.1	System		Suspended	236,951	20,682,403	5.5	257,070	65,828,088	6.2
Jul-04	188,555	20,271,567	4.2	System		Suspended	431,803	21,114,206	9.7	60,331	65,888,419	1.4

Note: Monthly average based on 30-day months
unknown - Flow unknown due to malfunctioning flow meter

TABLE 1
SUMMARY OF GROUNDWATER FLOW TOTALS
MACON/DOCKERY SITE Page 3 of 5

Date	Upper Dockery			Lower Dockery			Macon Source Area			Upper/Lower Macon		
	Monthly Flow (gallons)	Total Flow (gallons)	Monthly Average (gallons per minute)	Monthly Flow (gallons)	Total Flow (gallons)	Monthly Average (gallons per minute)	Monthly Flow (gallons)	Total Flow (gallons)	Monthly Average (gallons per minute)	Monthly Flow (gallons)	Total Flow (gallons)	Monthly Average (gallons per minute)
Aug-04	189,180	20,460,756	4.2	System		Suspended	476,553	21,862,316	10.7	305,444	68,261,583	6.8
Sep-04	201,757	20,662,513	4.7	System		Suspended	80,773	21,943,042	1.2	1,186,735	67,499,618	27.7
Oct-04	282,809	20,885,322	5.8	System		Suspended	470,818	22,113,860	10.5	1,146,391	68,547,008	25.7
Nov-04	308,116	21,233,441	7.1	System		Suspended	200,864	22,314,224	4.6	732,059	69,279,078	16.9
Dec-04	277,938	21,511,387	6.2	System		Suspended	264,163	22,578,387	5.9	1,213,180	70,492,258	27.2
Jan-05	290,823	21,782,190	5.8	System		Suspended	204,946	22,783,332	4.6	436,256	70,930,513	9.8
Feb-05	279,778	22,041,968	6.9	System		Suspended	133,816	22,917,147	3.3	1,494,210	72,424,723	37.1
Mar-05	254,898	22,296,834	5.7	System		Suspended	119,360	23,036,507	2.7	1,432,055	73,856,778	32.1
Apr-05	418,388	22,715,042	9.7	System		Suspended	166,610	23,202,117	3.8	1,641,955	75,498,733	38.0
May-05	450,685	23,165,727	10.1	System		Suspended	370,030	23,572,147	8.3	1,475,818	76,974,551	33.1
Jun-05	168,591	23,334,318	3.9	System		Suspended	255,005	23,827,152	5.9	723,010	77,697,561	16.7
Jul-05	76,333	23,410,651	1.7	System		Suspended	286,313	24,122,465	6.6	1,508,296	79,205,856	33.8
Aug-05	190,739	23,601,394	4.3	System		Suspended	144,887	24,267,352	3.2	669,920	79,875,776	15.0
Sep-05	115,521	23,716,905	2.6	System		Suspended	209,180	24,476,502	4.7	740,105	80,615,881	16.6
Oct-05	180,596	23,897,481	4.0	System		Suspended	90,328	24,566,830	2.0	538,660	81,154,541	12.1
Nov-05	182,825	24,080,256	3.8	System		Suspended	267,032	24,833,862	6.2	1,243,800	82,398,641	28.8
Dec-05	444,838	24,504,921	10.0	System		Suspended	349,810	25,183,672	7.8	1,301,230	83,699,871	29.1
Jan-06	445,572	24,950,493	10.0	System		Suspended	290,630	25,474,302	6.5	1,302,890	85,002,761	29.2
Feb-06	464,468	25,414,961	11.5	System		Suspended	351,375	25,825,677	8.7	1,421,680	86,424,641	35.3
Mar-06	823,790	25,938,741	11.7	System		Suspended	271,916	26,097,592	6.1	1,681,870	88,106,511	37.7
Apr-06	439,800	26,378,341	10.2	System		Suspended	281,790	26,379,382	6.5	736,170	88,841,681	17.0
May-06	397,283	26,775,624	8.9	System		Suspended	178,923	26,566,376	4.0	900,899	89,742,580	20.2
Jun-06	354,891	27,130,515	7.0	System		Suspended	186,102	26,742,477	3.7	553,008	90,295,588	11.0
Jul-06	76,860	27,207,495	2.0	System		Suspended	125,365	26,867,842	3.2	512,680	90,808,265	11.1
Aug-06	503,218	27,710,713	15.0	System		Suspended	115,445	26,983,287	3.6	714,980	91,523,225	29.2
Sep-06	549,920	28,260,633	9.1	System		Suspended	387,998	27,371,283	6.4	1,455,670	92,979,096	24.1
Oct-06	373,613	28,634,246	8.9	System		Suspended	269,728	27,640,011	6.4	1,430,300	94,409,395	34.3
Nov-06	471,362	29,105,608	11.7	System		Suspended	278,382	27,918,374	6.9	1,128,906	95,538,304	28.0
Dec-06	627,762	29,733,370	12.8	System		Suspended	348,645	28,266,019	7.1	1,571,976	97,110,280	32.1
Jan-07	501,106	30,234,468	12.4	System		Suspended	253,040	28,518,059	6.3	1,323,048	98,433,328	32.8
Feb-07	569,229	30,803,697	13.8	System		Suspended	249,494	28,767,553	6.0	1,462,619	99,895,947	35.0
Mar-07	700,176	31,503,873	14.3	System		Suspended	326,251	29,093,804	6.7	1,782,108	101,658,355	36.0
Apr-07	563,324	32,067,197	14.0	System		Suspended	317,833	29,411,637	7.6	1,526,191	103,186,516	36.6
May-07	549,813	32,636,810	13.8	System		Suspended	309,858	29,721,902	7.7	1,466,284	104,652,810	36.4
Jun-07	566,508	33,223,818	11.6	System		Suspended	331,972	30,053,474	6.6	1,130,958	105,773,788	22.2
Jul-07	489,345	33,713,163	12.1	System		Suspended	198,823	30,252,297	4.9	869,294	106,643,082	21.6
Aug-07	476,859	34,189,823	9.5	System		Suspended	319,772	30,572,189	6.3	1,141,935	107,784,995	22.7
Sep-07	136,290	34,326,112	3.4	System		Suspended	132,845	30,704,814	3.3	515,295	108,300,290	12.8
Oct-07	486,672	34,812,784	12.1	System		Suspended	251,200	30,956,014	6.2	823,077	109,123,367	20.4
Nov-07	699,144	35,412,928	13.8	System		Suspended	310,829	31,266,843	6.2	55,147	109,178,514	1.0
Dec-07	475,516	35,888,443	11.6	System		Suspended	247,429	31,514,272	6.1	597,797	109,775,711	14.4
Jan-08	591,802	36,480,245	13.7	System		Suspended	208,491	31,722,763	4.8	1,308,787	111,084,498	35.0
Feb-08	536,922	37,018,967	12.6	System		Suspended	360,236	32,102,999	8.8	726,533	111,812,032	16.8
Mar-08	388,141	37,385,107	8.5	System		Suspended	283,353	32,386,353	6.1	1,401,694	113,213,727	32.4
Apr-08	461,925	37,847,032	10.7	System		Suspended	270,835	32,657,188	6.3	1,106,331	114,320,058	25.8
May-08	615,207	38,462,239	14.2	System		Suspended	341,672	32,978,860	7.9	1,540,536	115,860,594	35.7
Jun-08	491,066	38,953,305	11.4	System		Suspended	247,979	33,226,840	5.7	1,296,587	117,157,181	30.0
Jul-08	466,559	39,419,864	10.8	System		Suspended	254,295	33,481,135	5.9	1,222,529	118,379,710	28.3
Aug-08	84,588	39,504,552	2.0	System		Suspended	137,902	33,619,037	3.2	563,846	118,943,556	13.1
Sep-08	428,836	39,933,490	9.9	System		Suspended	302,637	33,921,844	7.9	1,135,579	120,079,237	26.3
Oct-08	377,419	40,310,909	8.7	System		Suspended	166,143	34,089,788	3.9	855,864	120,935,091	19.8
Nov-08	516,124	40,827,032	11.9	System		Suspended	267,313	34,357,101	6.2	47,428	120,982,517	1.1
Dec-08	410,099	41,237,131	9.5	System		Suspended	275,004	34,632,105	6.4	982,064	121,964,581	22.7
Jan-09	149,919	41,387,050	3.5	System		Suspended	146,910	34,779,014	3.4	566,826	122,531,406	13.1
Feb-09	626,152	42,013,202	14.5	System		Suspended	274,443	35,052,457	6.4	1,609,211	124,140,617	37.3

Note: Monthly average based on 30-day months

TABLE 1
SUMMARY OF GROUNDWATER FLOW TOTALS
MACON/DOCKERY SITE Page 4 of 5

Date	Upper Dockery			Lower Dockery			Macon Source Area			Upper/Lower Macon		
	Monthly Flow (gallons)	Total Flow (gallons)	Monthly Average (gallons per minute)	Monthly Flow (gallons)	Total Flow (gallons)	Monthly Average (gallons per minute)	Monthly Flow (gallons)	Total Flow (gallons)	Monthly Average (gallons per minute)	Monthly Flow (gallons)	Total Flow (gallons)	Monthly Average (gallons per minute)
Mar-09	437,800	42,481,002	10.1	System		Suspended	100,437	35,152,838	2.3	822,015	124,762,532	14.4
Apr-09	342,846	42,823,850	5.8	System		Suspended	174,573	35,327,548	4.0	829,898	125,592,327	21.5
May-09	443,071	43,136,921	10.3	System		Suspended	259,781	35,587,349	6.0	1,061,174	126,763,501	34.6
Jun-09	589,098	43,727,017	13.7	System		Suspended	327,729	35,915,079	7.6	1,477,657	128,231,159	34.2
Jul-09	471,042	44,198,059	10.9	System		Suspended	237,858	36,152,933	5.6	1,243,665	129,474,824	28.8
Aug-09	535,075	44,733,134	12.4	System		Suspended	234,524	36,387,457	5.4	1,375,144	130,849,968	31.8
Sep-09	668,185	45,381,300	15.3	System		Suspended	306,676	36,694,133	7.1	1,656,352	132,506,348	38.3
Oct-09	548,325	45,929,634	12.7	System		Suspended	298,743	36,992,896	6.9	1,436,471	133,942,821	33.3
Nov-09	516,636	46,486,280	12.0	System		Suspended	291,273	37,284,169	6.7	1,378,316	135,321,137	31.9
Dec-09	561,600	47,007,880	12.6	System		Suspended	312,054	37,596,223	7.2	1,053,699	136,374,836	34.4
Jan-10	459,954	47,467,844	10.6	System		Suspended	186,988	37,783,211	4.3	817,138	137,191,972	18.9
Feb-10	448,247	47,916,092	10.4	System		Suspended	300,589	38,083,795	7.0	1,073,419	138,265,391	24.8
Mar-10	128,113	48,044,204	3.0	System		Suspended	124,666	38,208,462	2.9	484,377	138,748,768	11.2
Apr-10	487,472	48,531,676	10.8	System		Suspended	236,128	38,444,611	5.5	773,862	139,523,481	17.9
May-10	564,136	49,095,811	13.1	System		Suspended	282,179	38,726,790	6.5	51,838	139,575,298	1.2
Jun-10	448,954	49,512,765	10.3	System		Suspended	232,583	38,959,373	5.4	561,385	140,136,684	13.0
Jul-10	556,106	50,068,901	12.9	System		Suspended	196,863	39,156,386	4.6	1,231,260	141,367,964	28.5
Aug-10	506,698	50,575,488	11.7	System		Suspended	357,422	39,522,777	8.3	682,943	142,050,907	15.8
Sep-10	344,172	50,919,660	8.0	System		Suspended	247,582	39,770,329	5.7	1,317,592	143,368,399	30.5
Oct-10	434,209	51,353,869	10.1	System		Suspended	254,586	40,024,914	5.9	1,039,981	144,408,380	24.1
Nov-10	578,294	51,932,164	13.4	System		Suspended	110,000	40,134,914	2.5	1,448,164	145,856,454	33.5
Dec-10	461,621	52,393,784	10.7	System		Suspended	21,069	40,155,983	0.5	429,320	146,285,774	9.9
Jan-11	438,890	52,832,444	10.2	System		Suspended	150	40,156,133	0.0	159,668	146,445,429	3.7
Feb-11	79,494	52,911,938	1.8	System		Suspended	320	40,156,453	0.0	25,134	146,470,563	0.6
Mar-11	463,201	53,375,139	9.3	System		Suspended	21,620	40,178,173	0.5	669	146,471,442	0.0
Apr-11	394,774	53,869,913	8.2	System		Suspended	158,055	40,336,228	3.7	10,523	146,481,965	0.2
May-11	483,186	54,186,099	11.2	System		Suspended	251,274	40,587,502	5.8	1,611	146,483,576	0.0
Jun-11	353,463	54,540,562	8.8	System		Suspended	258,304	40,846,806	6.0	726,727	147,210,304	16.8
Jul-11	140,824	54,681,486	3.3	System		Suspended	137,155	40,983,161	3.2	419,450	147,629,754	9.7
Aug-11	586,563	55,270,089	13.6	System		Suspended	257,977	41,241,138	6.0	1,180,816	148,820,570	27.5
Sep-11	411,632	55,681,800	9.5	System		Suspended	94,411	41,335,549	2.2	480,291	149,280,861	10.7
Oct-11	228,278	55,909,878	5.3	System		Suspended	164,193	41,499,741	3.8	687,974	149,968,835	15.9
Nov-11	418,467	56,328,365	9.6	System		Suspended	244,194	41,743,936	5.7	785,289	150,754,106	18.2
Dec-11	554,691	56,881,055	12.8	System		Suspended	308,083	42,051,999	7.1	1,083,467	151,837,571	25.3
Jan-12	443,776	57,323,834	10.2	System		Suspended	223,596	42,275,595	5.2	930,313	152,767,883	21.3
Feb-12	502,971	57,826,805	11.6	System		Suspended	220,463	42,496,058	5.1	1,017,605	153,786,488	23.6
Mar-12	618,876	58,445,680	14.3	System		Suspended	288,275	42,784,313	6.7	1,228,722	155,011,212	28.4
Apr-12	515,425	58,960,806	11.9	System		Suspended	280,837	43,065,150	6.5	1,062,989	156,074,201	24.6
May-12	485,838	59,446,644	11.2	System		Suspended	145,230	43,210,380	3.4	1,019,854	157,094,156	23.6
Jun-12	518,504	59,965,047	12.0	System		Suspended	256,023	43,466,403	5.9	778,737	157,873,892	18.0
Jul-12	432,385	60,397,432	10.0	System		Suspended	1,253	43,467,656	0.0	604,681	158,478,573	14.0
Aug-12	421,353	60,818,785	9.8	System		Suspended	155,157	43,622,813	3.6	794,330	159,272,903	18.4
Sep-12	120,428	60,939,211	2.8	System		Suspended	117,205	43,740,018	2.7	358,439	159,631,342	8.3
Oct-12	430,023	61,369,234	10.0	System		Suspended	221,980	43,961,979	5.1	572,532	160,203,874	13.3
Nov-12	530,287	61,899,521	12.3	System		Suspended	274,648	44,236,627	6.4	38,360	160,242,235	0.9
Dec-12	420,166	62,319,687	9.7	System		Suspended	218,628	44,455,255	5.1	415,410	160,657,645	9.6
Jan-13	522,746	62,842,433	12.1	System		Suspended	184,223	44,639,478	4.3	911,088	161,568,733	21.1
Feb-13	476,191	63,318,617	11.0	System		Suspended	335,877	44,975,455	7.8	506,378	162,074,110	11.7
Mar-13	323,522	63,642,139	7.5	System		Suspended	232,696	45,208,184	5.4	975,018	163,049,128	22.6
Apr-13	408,157	64,050,295	9.4	System		Suspended	239,310	45,447,494	5.5	769,384	163,818,512	17.8
May-13	543,597	64,593,893	12.6	System		Suspended	103,400	45,550,894	2.4	1,071,587	164,890,290	24.8
Jun-13	433,823	65,027,716	10.0	System		Suspended	19,905	45,570,899	0.5	317,697	165,207,986	7.4

Note: Monthly average based on 30-day months

TABLE 1
SUMMARY OF GROUNDWATER FLOW TOTALS
MACON/DOCKERY SITE Page 5 of 5

Date	Upper Dockery			Lower Dockery			Macon Source Area			Upper/Lower Macon		
	Monthly Flow (gallons)	Total Flow (gallons)	Monthly Average Flow Rate (gallons per minute)	Monthly Flow (gallons)	Total Flow (gallons)	Monthly Average Flow Rate (gallons per minute)	Monthly Flow (gallons)	Total Flow (gallons)	Monthly Average Flow Rate (gallons per minute)	Monthly Flow (gallons)	Total Flow (gallons)	Monthly Average Flow Rate (gallons per minute)
Jul-13	379,506	65,408,823	8.8	System		Suspended	20,229	46,590,898	0.5	356,333	165,584,516	6.3
Aug-13	333,457	65,748,213	7.7	System		Suspended	185,157	46,748,055	3.6	1,012,184	166,676,713	23.4
Sep-13	488,047	66,196,360	10.8	System		Suspended	236,196	46,982,253	5.5	391,248	166,987,980	9.1
Oct-13	362,363	66,558,723	8.4	System		Suspended	242,993	46,225,246	5.6	584,779	167,562,738	13.6
Nov-13	132,468	66,691,191	3.1	System		Suspended	128,926	46,354,172	3.0	657,479	168,220,217	15.6
Dec-13	653,256	67,344,458	12.6	System		Suspended	242,498	46,596,670	5.6	929,447	169,149,664	21.5
Jan-14	346,840	67,691,298	8.0	System		Suspended	88,746	46,685,416	2.1	782,265	169,931,929	18.1
Feb-14	214,881	67,906,680	5.0	System		Suspended	154,341	46,839,757	3.8	864,965	170,796,895	20.0
Mar-14	391,497	68,237,377	9.1	System		Suspended	229,543	47,069,300	5.3	1,041,884	171,838,779	24.1
Apr-14	521,409	68,758,786	12.1	System		Suspended	289,579	47,358,879	6.7	903,540	172,742,299	20.9
May-14	419,212	69,174,999	9.8	System		Suspended	210,171	47,569,050	4.9	866,961	173,609,260	20.1
Jun-14	472,782	69,647,781	10.9	System		Suspended	207,226	47,776,276	4.8	662,776	174,272,036	15.3
Jul-14	581,555	70,229,346	13.5	System		Suspended	270,979	48,047,255	6.3	513,979	174,786,015	11.9

Note: Monthly average based on 30-day months

TABLE 2
SUMMARY OF OPERATIONAL PERCENTAGES
MACON/DOCKERY SITE
RICHMOND COUNTY, NORTH CAROLINA

Month	Upper Dockery (% Operational)	Lower Dockery (% Operational)	Macon Source Area (% Operational)	Upper Macon (% Operational)	Lower Macon (% Operational)	Soil-Vapor Extraction Unit (% Operational)
Jun-96	33	5	33	20	20	100
Jul-96	100	65	100	100	90	100
Aug-96	97	100	100	100	55	91
Sep-96	77	77	77	40	13	40
Oct-96	77	90	97	42	100	90
Nov-96	100	93	100	100	100	93
Dec-96	75	75	100	100	100	100
Jan-97	100	100	100	77	77	94
Feb-97	100	53	100	100	100	100
Mar-97	100	58	100	100	100	100
Apr-97	100	100	100	100	100	27
May-97	100	100	100	100	81	52
Jun-97	100	100	100	87	73	100
Jul-97	100	96	100	42	42	100
Aug-97	100	94	100	97	97	100
Sep-97	100	100	97	100	100	100
Oct-97	100	100	100	100	100	100
Nov-97	96	92	100	54	54	96
Dec-97	69	79	100	97	97	100
Jan-98	58	100	100	71	71	76
Feb-98	89	57	100	100	100	89
Mar-98	100	71	100	100	100	100
Apr-98	100	75	100	86	89	89
May-98	87	52	87	87	77	100
Jun-98	80	100	100	70	100	100
Jul-98	71	90	90	90	90	90
Aug-98	100	97	100	100	100	100
Sep-98	95	95	99	95	95	99
Oct-98	100	100	100	100	100	100
Nov-98	77	100	100	23	23	100
Dec-98	87	77	87	87	87	87
Jan-99	100	66	100	100	100	100
Feb-99	100	60	100	70	70	100
Mar-99	83	100	100	100	100	100
Apr-99	100	100	100	100	100	100
May-99	100	90	100	100	100	100
Jun-99	100	75	100	100	100	100
Jul-99	94	94	94	74	74	94
Aug-99	100	79	79	100	100	100
Sep-99	100	100	77	100	100	100
Oct-99	100	83	100	100	32	100
Nov-99	100	100	100	100	100	100
Dec-99	100	100	100	100	100	100
Jan-00	77	77	77	77	77	77
Feb-00	0	41	66	66	66	41
Mar-00	100	64	100	100	100	100
Apr-00	100	29	100	100	100	100
May-00	100	100	100	100	100	100
Jun-00	100	91	91	100	100	NR
Jul-00	100	100	100	81	81	NR

TABLE 2
SUMMARY OF OPERATIONAL PERCENTAGES
MACON/DOCKERY SITE
RICHMOND COUNTY, NORTH CAROLINA

Month	Upper Dockery (% Operational)	Lower Dockery (% Operational)	Macon Source Area (% Operational)	Upper Macon (% Operational)	Lower Macon (% Operational)	Soil-Vapor Extraction Unit (% Operational)
Aug-00	86	86	66	86	86	NR
Sep-00	100	100	100	100	100	NR
Oct-00	100	83	100	70	70	NR
Nov-00 to Jan-01	100	53	100	89	89	NR
Feb-01 to Apr-01	100	56	100	36	36	NR
May-01	100	100	100	100	100	NR
Jun-01	75	75	75	100	100	NR
Jul-01	97	61	100	100	100	suspended
Aug-01	71	68	100	71	100	suspended
Sep-01	43	0	100	100	100	suspended
Oct-01	100	90	100	36	100	suspended
Nov-01	100	53	100	3	100	suspended
Dec-01	100	45	100	100	100	suspended
Jan-02	100	0	84	100	90	suspended
Feb-02	100	25	100	100	100	suspended
Mar-02	100	90	100	68	68	suspended
Apr-02	83	23	100	93	93	suspended
May-02	0	77	100	100	100	suspended
Jun-02	10	100	100	100	100	suspended
Jul-02	45	23	22	22	22	suspended
Aug-02	77	0	100	58	58	suspended
Sep-02	100	100	100	100	100	suspended
Oct-02	100	100	100	9	8	suspended
Nov-02	73	0	100	100	100	suspended
Dec-02	38	0	80	0	80	suspended
Jan-03	80	20	83	0	100	suspended
Feb-03	100	29	100	29	100	suspended
Mar-03	100	61	100	100	100	suspended
Apr-03	6	100	100	100	100	suspended
May-03	0	100	100	100	100	suspended
Jun-03	75	75	100	100	0	suspended
Jul-03	51	80	100	80	0	suspended
Aug-03	65	100	100	26	0	suspended
Sep-03	0	100	100	0	0	suspended
Oct-03	80	100	100	100	33	suspended
Nov-03	100	73	100	100	100	suspended
Dec-03	48	71	100	100	100	suspended
Jan-04	100	100	100	100	100	suspended
Feb-04	100	100	100	100	100	suspended
Mar-04	100	100	100	100	100	suspended
Apr-04	100	suspended	100	100	100	suspended
May-04	76	suspended	100	88	88	suspended

Notes: NR = Not Recorded
*Lower Dockery Suspended on 3-19-04

TABLE 2
SUMMARY OF OPERATIONAL PERCENTAGES
MACON/DOCKERY SITE
RICHMOND COUNTY, NORTH CAROLINA

Month	Upper Dockery (% Operational)	Lower Dockery (% Operational)	Macon Source Area (% Operational)	Upper Macon (% Operational)	Lower Macon (% Operational)	Soil-Vapor Extraction Unit (% Operational)
Jun-04	93	suspended	100	23	100	suspended
Jul-04	100	suspended	100	0	94	suspended
Aug-04	100	suspended	100	42	90	suspended
Sep-04	100	suspended	100	100	100	suspended
Oct-04	100	suspended	100	100	100	suspended
Nov-04	100	suspended	100	60	60	suspended
Dec-04	100	suspended	100	81	81	suspended
Jan-05	90	suspended	100	42	42	suspended
Feb-05	100	suspended	100	100	100	suspended
Mar-05	90	suspended	100	100	100	suspended
Apr-05	100	suspended	100	100	100	suspended
May-05	100	suspended	100	100	100	suspended
Jun-05	81	suspended	100	100	100	suspended
Jul-05	19	suspended	74	74	74	suspended
Aug-05	61	suspended	35	61	61	suspended
Sep-05	100	suspended	100	100	90	suspended
Oct-05	100	suspended	42	42	42	suspended
Nov-05	100	suspended	100	100	100	suspended
Dec-05	100	suspended	100	97	97	suspended
Jan-06	97	suspended	100	100	100	suspended
Feb-06	100	suspended	100	100	100	suspended
Mar-06	100	suspended	100	100	100	suspended
Apr-06	100	suspended	100	50	100	suspended
May-06	100	suspended	100	58	100	suspended
Jun-06	100	suspended	100	55	100	suspended
Jul-06	100	suspended	100	100	100	suspended
Aug-06	100	suspended	90	100	100	suspended
Sep-06	100	suspended	100	100	100	suspended
Oct-06	100	suspended	74	100	100	suspended
Nov-06	100	suspended	100	100	100	suspended
Dec-06	100	suspended	100	100	100	suspended
Jan-07	100	suspended	100	100	100	suspended
Feb-07	100	suspended	100	100	100	suspended
Mar-07	100	suspended	100	100	100	suspended
Apr-07	100	suspended	100	100	100	suspended
May-07	100	suspended	100	100	100	suspended

Notes: NR = Not Recorded
*Lower Dockery Suspended on 3-19-04

TABLE 2
SUMMARY OF OPERATIONAL PERCENTAGES
MACON/DOCKERY SITE
RICHMOND COUNTY, NORTH CAROLINA

Month	Upper Dockery (% Operational)	Lower Dockery (% Operational)	Macon Source Area (% Operational)	Upper Macon (% Operational)	Lower Macon (% Operational)	Soil-Vapor Extraction Unit (% Operational)
Jul-07	100	suspended	100	100	100	suspended
Aug-07	100	suspended	100	100	100	suspended
Sep-07	40	suspended	63	63	63	suspended
Oct-07	100	suspended	74	81	81	suspended
Nov-07	100	suspended	100	75	75	suspended
Dec-07	100	suspended	100	48	48	suspended
Jan-08	100	suspended	100	100	100	suspended
Feb-08	100	suspended	100	65	65	suspended
Mar-08	100	suspended	100	100	0	suspended
Apr-08	100	suspended	100	100	0	suspended
May-08	100	suspended	100	100	0	suspended
Jun-08	100	suspended	100	100	0	suspended
Jul-08	100	suspended	100	100	0	suspended
Aug-08	25	suspended	100	60	0	suspended
Sep-08	95	suspended	100	100	0	suspended
Oct-08	60	suspended	76	80	0	suspended
Nov-08	100	suspended	100	5	0	suspended
Dec-08	100	suspended	100	85	0	suspended
Jan-09	21	suspended	80	45	0	suspended
Feb-09	100	suspended	100	100	0	suspended
Mar-09	88	suspended	63	65	0	suspended
Apr-09	42	suspended	85	92	0	suspended
May-09	89	suspended	100	100	0	suspended
Jun-09	100	suspended	100	100	0	suspended
Jul-09	100	suspended	100	100	0	suspended
Aug-09	100	suspended	100	100	0	suspended
Sep-09	100	suspended	100	100	0	suspended
Oct-09	100	suspended	100	100	0	suspended
Nov-09	100	suspended	100	100	0	suspended
Dec-09	100	suspended	100	100	0	suspended
Jan-10	100	suspended	81	95	0	suspended
Feb-10	100	suspended	100	100	0	suspended
Mar-10	30	suspended	75	35	0	suspended
Apr-10	95	suspended	100	88	0	suspended
May-10	100	suspended	100	11	suspended	suspended
Jun-10	100	suspended	100	42	suspended	suspended
Jul-10	100	suspended	95	96	suspended	suspended
Aug-10	100	suspended	100	65	suspended	suspended
Sep-10	85	suspended	100	100	suspended	suspended
Oct-10	100	suspended	100	100	suspended	suspended
Nov-10	100	suspended	75	75	suspended	suspended
Dec-10	100	suspended	10	52	suspended	suspended
Jan-11	92	suspended	0	25	suspended	suspended
Feb-11	5	suspended	0	20	suspended	suspended
Mar-11	96	suspended	15	10	suspended	suspended
Apr-11	100	suspended	100	100	suspended	suspended

Notes: NR = Not Recorded
*Lower Dockery Suspended on 3-19-04

TABLE 2
SUMMARY OF OPERATIONAL PERCENTAGES
MACON/DOCKERY SITE
RICHMOND COUNTY, NORTH CAROLINA

Month	Upper Dockery (% Operational)	Lower Dockery (% Operational)	Macon Source Area (% Operational)	Upper Macon (% Operational)	Lower Macon (% Operational)	Soil-Vapor Extraction Unit (% Operational)
Mar-11	96	suspended	15	10	suspended	suspended
Apr-11	100	suspended	100	100	suspended	suspended
May-11	100	suspended	100	5	suspended	suspended
Jun-11	100	suspended	100	80	suspended	suspended
Jul-11	52	suspended	75	47	suspended	suspended
Aug-11	100	suspended	100	95	suspended	suspended
Sep-11	100	suspended	51	42	suspended	suspended
Oct-11	75	suspended	86	66	suspended	suspended
Nov-11	100	suspended	100	95	suspended	suspended
Dec-11	100	suspended	100	100	suspended	suspended
Jan-12	100	suspended	100	51	suspended	suspended
Feb-12	100	suspended	100	45	suspended	suspended
Mar-12	100	suspended	100	100	suspended	suspended
Apr-12	85	suspended	100	100	suspended	suspended
May-12	100	suspended	95	100	suspended	suspended
Jun-12	100	suspended	87	87	suspended	suspended
Jul-12	39	suspended	39	39	suspended	suspended
Aug-12	42	suspended	45	77	suspended	suspended
Sep-12	70	suspended	80	100	suspended	suspended
Oct-12	100	suspended	87	100	suspended	suspended
Nov-12	100	suspended	100	100	suspended	suspended
Dec-12	100	suspended	100	45	suspended	suspended
Jan-13	100	suspended	71	87	suspended	suspended
Feb-13	100	suspended	100	57	suspended	suspended
Mar-13	100	suspended	100	58	suspended	suspended
Apr-13	100	suspended	100	100	suspended	suspended
May-13	100	suspended	100	68	suspended	suspended
Jun-13	100	suspended	57	50	suspended	suspended
Jul-13	100	suspended	48	87	suspended	suspended
Aug-13	94	suspended	100	100	suspended	suspended
Sep-13	100	suspended	94	100	suspended	suspended
Oct-13	94	suspended	100	100	suspended	suspended
Nov-13	100	suspended	100	93	suspended	suspended
Dec-13	100	suspended	94	100	suspended	suspended
Jan-14	100	suspended	77	77	suspended	suspended
Feb-14	100	suspended	100	100	suspended	suspended
Mar-14	71	suspended	100	100	suspended	suspended
Apr-14	77	suspended	77	77	suspended	suspended
May-14	100	suspended	81	74	suspended	suspended
Period Avg for 6-1-13 to 6-1-14	95	suspended	86	88	suspended	suspended
Overall average	88	suspended	92	79	suspended	suspended

Notes: NR = Not Recorded
*Lower Dockery Suspended on 3-19-04

TABLE 3 (Page 1 of 3)
EFFLUENT Analytical Results
UPPER DOCKERY
Macon Dockery Site
Richmond County, North Carolina

Sample Location	Date	1,1-Dichloro-ethane (ug/L)	1,1-Dichloro-ethene (ug/L)	Cis/trans-1,2-Dichloroethene, (ug/L)	Tetra-chloroethene (ug/L)	1,1,1-Trichloro-ethane (ug/L)	Trichloro-ethene (ug/L)	Toluene (ug/L)	Total Xylenes (ug/L)	Acetone (ug/L)	Chromium (ug/L)	Barium (ug/L)	Manganese (ug/L)	Zinc (ug/L)	Lead (ug/L)	Suspended Solids (mg/L)
UD Effluent	5/3/1996	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	52	<10	<50	<5.0	<20	<3.0	<5.0
	6/5/1996	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.9	<3.0	<10	<10	<50	<5.0	<20	<3.0	<5.0
	7/1/1996	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<20	<3.0	<5.0
	8/1/1996	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	20	14	51	7	<20	<3.0	8
	9/4/1996	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	55	<5.0	<20	<3.0	<5.0
	10/1/1996	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	5.9	<20	<3.0	<5.0
	11/7/1996	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	15	59	<5.0	<20	<3.0	<5.0
	12/5/1996	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	12	54	5.1	<20	<3.0	<5.0
	1/6/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	13	54	<5.0	<20	<3.0	<5.0
	2/3/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	15	61	5.9	<20	<3.0	<5.0
	3/12/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	69	<5.0	<20	<3.0	<5.0
	4/8/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	61	<5.0	<20	<3.0	<5.0
	5/14/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	60	7.2	<20	<3.0	<5.0
	6/6/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	52	<5.0	<20	<3.0	<5.0
	7/2/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	55	<5.0	<20	<3.0	<5.0
	8/7/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<20	<3.0	<5.0
	9/5/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<20	<10	110	5.2	<20	<3.0	<5.0
	10/2/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	50.1	<5.0	<20	<3.0	<5.0
	11/13/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	12.1	67.9	18.6	24.8	<3.0	<5.0
	12/5/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<20	<3.0	<5.0
	1/9/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	11	<50	<5.0	<20	<3.0	<5.0
	2/5/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<20	<3.0	<5.0
	3/5/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	<200	<15	<20	<3.0	<5.0
	4/3/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	<200	5.2	<20	<3.0	<5.0
	5/7/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	10	<50	<5.0	<20	<3.0	<5.0
	6/5/1998	<1.0	25	<1.0	<1.0	5.5	<1.0	<1.0	<3.0	<10	<10	57	<5.0	<20	<3.0	<5.0
	7/9/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	51	<5.0	<20	<3.0	<5.0
	8/7/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	13	53	<5.0	<20	<3.0	<5.0
	9/10/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	11	58	<5.0	<20	<3.0	<5.0
	10/2/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<25	<10	54	<10	<20	<3.0	<5.0
	11/4/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	11	63	6.3	<20	<3.0	12
	12/1/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<25	14	63	40	<20	<3.0	<5.0
	1/11/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	11	55	<5.0	<20	<3.0	<5.0
	2/11/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	15	73	23	<20	<3.0	<5.0
	3/5/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<25	11	62	<5.0	<20	<3.0	<5.0
	4/8/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	11	54	<5.0	<20	<3.0	<5.0
	5/12/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	12	57	<5.0	<20	<3.0	<5.0
	6/10/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	13	66	<5.0	<20	<3.0	<5.0
	7/8/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	10	66	<5.0	<20	<3.0	<5.0
RFS		3500	7	70	1	200	2.8	1000	400	3500	50	1000	50	5000	15	

RFS: Remediation Performance Standard

TABLE 3 (Page 2 of 3)
EFFLUENT Analytical Results
UPPER DOCKERY
Macon Dockery Site
Richmond County, North Carolina

Sample Location	Date	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Cis/trans-1,2-Dichloroethene (ug/L)	Tetrachloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	Trichloroethene (ug/L)	Toluene (ug/L)	Total Xylenes (ug/L)	Acetone (ug/L)	Chromium (ug/L)	Barium (ug/L)	Manganese (ug/L)	Zinc (ug/L)	Lead (ug/L)	Suspended Solids (mg/L)
UD Effluent	9/5/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	14	66	<5.0	<20	5.2	<5.0
	9/9/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	14	61	<5.0	<20	<3.0	<5.0
	10/14/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	14	60	<5.0	<20	<3.0	<5.0
	11/3/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	13	58	<5.0	<20	<3.0	<5.0
	12/3/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	13	64	<5.0	<20	<3.0	<5.0
	3/9/2000	<1.0	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	14	74	9.3	<20	<3.0	<5.0
	4/7/2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	160	8.0	<20	<3.0	<5.0
	5/9/2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	14	69	<5.0	<20	<3.0	<5.0
	6/9/2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	79	<5.0	<20	<3.0	<5.0
	7/7/2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	85	10	<20	<3.0	<5.0
	8/3/2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	78	<5.0	<20	<3.0	<5.0
	9/25/2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	85	<5.0	<20	<3.0	<5.0
	10/12/2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	84	<5.0	<20	<3.0	<5.0
	1/18/2001	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	100	6.3	<20	<3.0	<5.0
	5/3/2001	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	14	80	5.7	<20	<3.0	<5.0
	7/11/2001	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	27	79	43.0	27	<3.0	8.0
	10/18/2001	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	14	74	5.4	<20	<3.0	<5.0
	1/16/2002	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	18	130	120	35	5	<5.0
	7/31/2002	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	55	5.6	<20	<3.0	<5.0
	10/30/2002	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	99	7.3	<20	<3.0	<5.0
	1/28/2003		NOT	SAMPLED	SYSTEM	DOWN				NOT	SAMPLED		SYSTEM	DOWN		
	3/14/2003		NOT	SAMPLED	SYSTEM	DOWN				NOT	SAMPLED		SYSTEM	DOWN		
	4/3/2003	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	83	5.1	<20	<3.0	<5.0
	7/10/2003	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	96	19	<20	<3.0	<5.0
	10/30/2003	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	55	<5.0	<20	<3.0	<5.0
	1/13/2004	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0	<25	11	71	15	24	<3.0	14.0
	4/5/2004	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0	<25	12	68	<5.0	<20	<3.0	<5.0
	6/28/2004	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0	<25	<10	54	<5.0	<20	<3.0	<5.0
	10/21/2004	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0	<25	<10	85	<5.0	<20	<3.0	<5.0
	1/27/2005	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	72	<5.0	<20	<3.0	<5.0
	5/4/2005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	NA	62	NA	<20	<1.5	<5.0
	8/25/2005	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<3.0	<10	10	69	<5.0	<20	NA	<5.0
	10/30/2005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	14	75	<5.0	<20	<1.5	<5.0
	1/28/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	6.9	82	<5.0	<20	<1.5	<5.0
	4/30/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<5.0	88	<5.0	<20	<1.5	<5.0
	8/2/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	7.1	99	29	<20	<1.5	8.0
	10/29/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	7.8	91	6.5	<20	<1.5	<5.0
	1/27/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	10	81	7.2	<20	<1.5	7.0
	4/29/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	8.2	80	<5.0	<20	<1.5	<5.0
RPS		3500	7	70	1	200	2.8	1000	400	3500	50	1000	50	5000	15	

RPS: Remediation Performance Standard

TABLE 3 (Page 3 of 3)
EFFLUENT Analytical Results
UPPER DOCKERY
Macon Dockery Site
Richmond County, North Carolina

Sample Location	Date	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Cis/trans-1,2-Dichloroethene (ug/L)	Tetrachloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	Trichloroethene (ug/L)	Toluene (ug/L)	Total Xylenes (ug/L)	Acetone (ug/L)	Chromium (ug/L)	Barium (ug/L)	Manganese (ug/L)	Zinc (ug/L)	Lead (ug/L)	Suspended Solids (mg/L)
	7/30/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	11	80	<5.0	<20	<1.5	<5.0
	10/28/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	8.9	81	<5.0	<20	<1.5	<5.0
	2/3/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	10	71	<5.0	<20	<1.5	<5.0
	6/2/2008	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<3.0*	*<10*	9.8	67	<5.0	<20	<1.5	<5.0
	8/25/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	13	83	<5.0	<20	<1.5	<5.0
	10/31/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	10	67	<5.0	<20	<1.5	<5.0
	10/31/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	10	67	<5.0	<20	<1.5	<5.0
	2/19/2009*	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	11	65	30	<20	<1.5	<5.0
	4/30/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	10	69	6.0	<20	<1.5	<5.0
	8/13/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	9.2	89	7.0	<20	<1.5	<5.0
	10/31/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/29/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	18	65	<5.0	<20	<1.5	<5.0
	5/20/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	10	58	<5.0	<20	<1.5	<5.0
	8/1/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	9.2	65	<5.0	<20	<1.5	<5.0
	10/14/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	11	76	9.2	<20	<1.5	<5.0
	1/31/2011	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	10	70	<5.0	<20	<1.5	<5.0
	5/10/2011	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	8.9	94	<5.0	<20	<1.5	<5.0
	9/18/2011	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	7.8	69	<5.0	<20	<1.5	<5.0
	11/11/2011	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	10.5	68	<5.0	<20	<1.5	<5.0
	2/22/2012	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	11	NS	<5.0	<20	<1.5	<5.0
	5/5/2012	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	12.1	23	<5.0	<20	<1.5	<5.0
	8/31/2012	System	Down	Not	Sampled											
	11/5/2012	System	Down	Not	Sampled											
	1/15/2013	System	Down	Not	Sampled											
	4/5/2013	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	8.9	80	<5.0	<20	<1.5	<5.0
	9/9/2013	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	12	83	<5.0	<20	<1.5	<5.0
	10/24/2013	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	5.2	155	<5.0	<20	<1.5	<5.0
	1/15/2014	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	11	76	<5.0	<20	<1.5	<5.0
	4/10/2014	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	7.2	55	<5.0	<20	<1.5	<5.0
	8/14/2014	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	9.0	220	13	<20	<1.5	<5.0
RPS		3500	7	70	1	200	2.8	1000	400	3500	50	1000	50	5000	15	

RPS: Remediation Performance Standard * = Does Not Include Nickel reported at 5.4ug/L on 2/19/2009 and 1.1ug/L on 4/30/2009 and 2.2ug/L on 8/13/2009

TABLE 4 (Page 1 of 2)
EFFLUENT Analytical Results
LOWER DOCKERY
Macon Dockery Site
Richmond County, North Carolina

Sample Location	Date	Chloro-form (ug/L)	1,1-Dichloro-ethane (ug/L)	1,1-Dichloro-ethene (ug/L)	Cis/trans-1,2-Dichloroethene (ug/L)	Methylene chloride (ug/L)	1,1,1-Trichloro-ethane (ug/L)	Trichloro-ethene (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Total Xylenes (ug/L)	Chromium (ug/L)	Barium (ug/L)	Manganese (ug/L)	Zinc (ug/L)	Cadmium (ug/L)	Suspended Solids (mg/L)
LD Effluent	2/15/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<3.0
	2/16/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<3.0
	2/22/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	5
	2/28/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	3/8/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	4/3/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<3.0
	5/3/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<3.0
	8/1/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	14	<20	<0.30	<3.0
	9/4/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	13	<20	0.56	<3.0
	10/1/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	11	<20	<0.30	<3.0
	11/7/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3.4	<3.0	<10	<50	<5.0	<20	<0.30	<3.0
	12/5/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	35	<20	<0.30	19
	1/6/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	6	<20	<0.30	<5.0
	3/12/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	70	<5.0	<20	<0.30	<5.0
	4/8/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	5/14/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	6/6/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	7/2/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	8/7/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	9/5/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	10/2/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	11/13/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<1	<5.0
	12/5/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	160	<20	<0.30	<5.0
	1/9/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	34	<20	<0.30	<5.0
	2/5/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	250	<20	<0.30	58
	3/5/1998	<1.0	17	3.2	<1.0	<2.0	5.5	<1.0	<1.0	<1.0	<3.0	<10	<200	85	<20	<0.30	<5.0
	4/3/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<200	39	<20	<0.30	<5.0
	5/7/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	17	<20	<0.30	<5.0
	6/5/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	6.3	<20	<0.30	<5.0
	7/9/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	8/7/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	9/10/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	10/2/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	17	140	<20	<0.30	<5.0
	11/4/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	18	<20	<0.30	<5.0
	12/1/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	1/11/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	5.2	<20	<0.30	<5.0
	*2/11/99	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	15	<20	<0.30	<5.0
	3/5/1999	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	4/8/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	5/12/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	52	9.5
	6/10/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	7/8/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	8/5/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	5.0	<20	<0.30	<5.0
	9/9/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	72	520	11	<0.30	<5.0
	10/14/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	93	470	38	<0.30	<5.0
	11/2/1999	<1.0	2.5	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	11	<20	<0.30	<5.0
	12/3/1999	<1.0	2.8	<1.0	<1.0	<2.0	1.2	<1.0	<1.0	<1.0	<3.0	<10	<50	110	<20	<0.30	<5.0
RPS:		1	3500	7	70	5	200	2.8	1	1000	400	50	1000	90	5000	5	

RPS: Remediation Performance Standard

TABLE 4 (Page 2 of 2)
EFFLUENT Analytical Results
LOWER DOCKERY
Macon Dockery Site
Richmond County, North Carolina

Sample Location	Date	Chloroform (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Cis/trans-1,2-Dichloroethene (ug/L)	Methylene chloride (ug/L)	1,1,1-Trichloroethane (ug/L)	Trichloroethene (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Total Xylenes (ug/L)	Chromium (ug/L)	Barium (ug/L)	Manganese (ug/L)	Zinc (ug/L)	Cadmium (ug/L)	Suspended Solids (mg/L)
LD Effluent	2/23/2000	<1.0	4.2	<1.0	<1.0	<2.0	2.6	<1.0	<1.0	<1.0	<3.0	<10	<50	320	<20	<0.30	<5.0
	3/9/2000	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	93	<20	<0.30	<5.0
	4/7/2000	**	System	Down	Not	Sampled	**	***		System	Down		Not	Sampled			***
	5/9/2000	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	180	<20	<0.30	<5.0
	6/9/2000	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	7/7/2000	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	100	<20	<0.30	<5.0
	8/3/2000	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	9/25/2000	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	97	<0.30	<5.0
	10/12/2000	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	97	<0.30	<5.0
	1/18/2001	**	System	Down	Not	Sampled	**	***		System	Down		Not	Sampled			***
	4/24/2001	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	5/11/2001	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	7/11/2001	**	System	Down	Not	Sampled	**	***		System	Down		Not	Sampled			***
	10/18/2001	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	1/16/2002		System	Down	Not	Sampled				System	Down	Not	Sampled				
	7/31/2002		System	Down	Not	Sampled				System	Down	Not	Sampled				
	10/30/2002	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	58	<20	<0.30	<5.0
	1/28/2003		System	Down	Not	Sampled				System	Down	Not	Sampled				
	3/14/2003	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<50	<5.0	<20	<0.30	<5.0
	4/3/2003	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	7/10/2003	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	10/30/2003	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5.0	<20	<0.30	<5.0
	1/13/2004	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<50	<5.0	<20	<0.30	10
	4/5/2004		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	6/28/2004		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	1/27/2005		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	5/4/2005		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	8/25/2005		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	10/30/2005		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	1/28/2006		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	4/30/2006		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	8/2/2006		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	10/29/2006		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	1/27/1007		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	4/29/2007		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	7/29/2007		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	10/28/2007		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	2/3/2008		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	6/1/2008		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	8/23/2008		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	10/31/2008		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	2/19/2009		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	4/30/2009		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	8/13/2009		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
	10/31/2009		System	Suspended	Not	Sampled				System	Suspended	Not	Sampled				
			System	Suspended	No	Future	Samples	Collected									
RPS.		1	5500	7	70	5	200	2.8	1	1000	400	50	1000	50	5000	5	

RPS. Remediation Performance Standard

TABLE 5 (Page 1 of 3)
EFFLUENT Analytical Results
MACON SOURCE AREA
Macon Dockery Site
Richmond County, North Carolina

Sample Location	Date	Iron (ug/L)	ethane (ug/L)	ethane (ug/L)	Dichloroethene (ug/L)	ethene (ug/L)	ethane (ug/L)	ethene (ug/L)	chloride (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Chromium (ug/L)	Barium (ug/L)	Manganese (ug/L)	Zinc (ug/L)	Cadmium (ug/L)	Lead (ug/L)	Mercury (ug/L)	Solids (mg/L)
UMSA Effluent	2/17/1996	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	120	120	<20	<0.30	<3.0	<.2	<5.0
	2/22/1996	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	120	70	<20	<0.30	<3.0	<.2	<5.0
	2/28/1996	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	130	51	<20	<0.30	<3.0	<.2	<5.0
	3/8/1996	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	120	37	<20	<0.30	<3.0	<.2	<5.0
	4/5/1996	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	110	27	<20	<0.30	<3.0	<.2	5
	5/3/1996	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	120	38	<20	<0.30	<3.0	<.2	<5.0
	6/5/1996	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.9	<10	110	22	<20	<0.30	<3.0	<.2	6
	7/1/1996	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	12	110	14	<20	<0.30	<3.0	NA	<5.0
	7/30/1996	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	200	110	41	<0.30	9.2	NA	23
	9/4/1996	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	11	170	66	26	<0.30	66	NA	16
	10/1/1996	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	130	13	<20	0.47	<3.0	NA	24
	11/7/1996	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	140	13	<20	<0.30	<3.0	NA	26
	12/5/1996	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	170	17	<20	<0.30	<3.0	<0.20	5
	1/6/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	200	46	25	<0.30	3.5	NA	120
	2/4/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	160	29	<20	<0.30	<3.0	NA	8
	3/12/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	130	30	<20	<0.30	<3.0	NA	<5.0
	4/8/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	200	38	<20	<0.30	<3.0	NA	7
	5/12/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	12	210	95	35	<0.30	<3.0	NA	100
	6/6/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	240	74	<20	<0.30	<3.0	NA	<5.0
	7/2/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	180	41	<20	<0.30	<3.0	NA	<5.0
	8/7/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	11	230	230	46	<0.30	4.8	NA	NA
	9/5/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	130	27	<20	<0.30	<3.0	NA	22
	10/2/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	185	31.5	<20	<0.30	<3.0	NA	11
	11/13/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	129	84.2	<20	<1	<3.0	NA	8
	12/5/1997	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	150	160	26	<0.30	6.5	NA	<5.0
	1/9/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	180	73	<20	<0.30	<3.0	NA	<5.0
	2/5/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	200	30	<20	<0.30	<3.0	NA	6
	3/5/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	11	210	160	25	<0.30	4.1	NA	<5.0
	4/3/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<200	64	<20	<0.30	<3.0	NA	<5.0
	5/7/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	210	310	29	<0.30	5	NA	13
	6/5/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	160	46	<20	<0.30	<3.0	NA	<5.0
	7/9/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	240	118	<20	<0.30	<3.0	NA	<5.0
	8/7/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	190	37	<20	<0.30	<3.0	NA	<5.0
	9/10/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	200	56	<20	<0.30	<3.0	NA	33
	10/2/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	190	110	<20	<0.30	<3.0	NA	12
	11/4/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	10	320	450	48	<0.30	6.6	NA	180
	12/7/1998	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	180	68	<20	<0.30	<3.0	NA	<5.0
	1/11/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	150	130	<20	<0.30	<3.0	NA	<5.0
	2/11/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	230	120	22	<0.30	<3.0	NA	<5.0
	3/5/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	180	100	25	<0.30	<3.0	NA	<5.0
	4/8/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	170	72	<20	<0.30	<3.0	NA	<5.0
	5/13/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	170	66	<20	36	<3.0	NA	9.5
	6/10/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	180	100	<20	<0.30	<3.0	NA	<5.0
	7/8/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	170	160	<20	<0.30	3.3	NA	<5.0
	8/5/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	140	13	<20	<0.30	8.7	NA	<5.0
	9/9/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	150	340	24	<0.30	<3.0	NA	<5.0
	10/14/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	200	37	<20	<0.30	<3.0	NA	<5.0
	11/2/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	180	13	<20	<0.30	<3.0	NA	<5.0
	12/3/1999	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	180	18	<20	<0.30	<3.0	NA	<5.0
IDI		1	3500	7	70	1	200	2.8	1	1	1000	50	1000	50	5000	5	15	1.1	
EPS:	Remediation Performance Standard																		
NA:	Not Analyzed																		

TABLE 5 (Page 2 of 3)
EFFLUENT Analytical Results
MACON SOURCE AREA
Macon Dockery Site
Richmond County, North Carolina

Sample Location	Date	Iron (ug/L)	ethene (ug/L)	ethane (ug/L)	Dichloroethane (ug/L)	chane (ug/L)	ethane (ug/L)	ethane (ug/L)	chloride (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Chromium (ug/L)	Barium (ug/L)	Manganese (ug/L)	Zinc (ug/L)	Cadmium (ug/L)	Lead (ug/L)	Mercury (ug/L)	Solids (mg/L)
	2/16/2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	240	300	46	<0.30	5.3	NA	130
	3/9/2000	<1.0	<1.0	16	<1.0	1.9	2.6	<1.0	<1.0	<1.0	<1.0	<10	230	47	<20	<0.30	<3.0	NA	5.0
	4/7/2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	210	46	<20	<0.30	<3.0	NA	<5.0
	5/8/2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	410	54	<20	<0.30	<3.0	NA	<5.0
	6/9/2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	180	61	<20	<0.30	<3.0	NA	<5.0
	7/7/2000	<1.0	<1.0	9.9	<1.0	<1.0	14	<1.0	<1.0	<1.0	<1.0	<10	220	250	32	<0.30	3.8	NA	<5.0
	8/2/2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	190	80	<20	<0.30	4.1	NA	38.0
	9/25/2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	280	8.3	<20	<0.30	<3.0	NA	<5.0
	10/13/2000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	14	180	84	<20	<0.30	3.7	NA	6.0
	1/18/2001	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	200	36	<20	<0.30	<3.0	NA	8.5
	5/3/2001	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	28	440	350	29	<0.30	19	NA	<5.0
	7/11/2001	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	15	360	110	<20	<0.30	3.7	NA	38
	10/18/2001	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	60	450	900	47	<0.30	21	NA	<5.0
	12/28/2001	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	11	360	110	<20	<0.30	<3.0	NA	8.0
	1/15/2002	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	360	35	<20	<0.30	<3.0	NA	8.0
	7/30/2002	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	21	370	130	<20	<0.30	3.0	NA	11.0
	10/30/2002	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	20	370	98	<20	<0.30	4.0	<0.20	6.0
	1/28/2003		NOT	SAMPLED	SYSTEM	DOWN				NOT	SAMPLED		SYSTEM	DOWN					
	5/14/2003	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	17	410	240	45	<0.30	480	<0.20	<5.0
	4/5/2003	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	11	350	44	<20	<0.30	380	<0.20	7
	7/10/2003	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	370	71	<20	<0.30	<3.0	<0.20	42
	10/30/2003	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	360	170	120	<0.30	<3.0	<0.20	<5.0
	1/13/2004	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	76	400	1800	210	0.47	62	NA	27
	4/5/2004	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	230	64	<20	<0.30	<3.0	NA	33
	6/29/2004	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	160	6.2	<20	<0.30	<3.0	NA	<5.0
	10/21/2004	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	180	18	<20	<0.30	<3.0	NA	<5.0
	1/27/2005	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	170	8.5	<20	<0.30	<3.0	NA	<5.0
	5/4/2005	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	140	NA	<20	<0.30	<1.5	NA	<5.0
	8/25/2005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	160	44	<20	<0.30	NA	NA	<5.0
	10/10/2005	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	150	8.1	<20	<0.30	<1.5	NA	<5.0
	1/28/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	170	100	<20	<0.50	2.6	NA	18
	4/30/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7.0	200	36	<20	<0.30	<1.5	NA	<5.0
	8/2/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	170	13	<20	<0.30	<1.5	NA	NA
	10/29/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	11	210	200	49	<0.30	3.0	NA	<5.0
	1/27/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5	150	140	22	NA	6.2	NA	19
	4/29/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	160	82	<20	<0.30	1.9	<0.20	8.0
	7/29/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	180	220	21	0.33	8.6	NA	<5.0
	10/28/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	160	22	<20	<0.50	<1.5	NA	<5.0
	2/3/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	8.9	190	95	<20	<0.50	1.8	NA	<5.0
	6/3/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	150	15	<20	<0.50	<1.5	NA	<5.0
	8/23/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.8	180	97	<20	<0.50	2.5	NA	<5.0
	10/31/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.0	160	63	<20	<0.50	1.7	<0.20	<5.0
	2/19/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.9	120	67	<20	<0.50	<1.5	<0.20	<5.0
	4/30/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.1	170	25	<20	<0.50	<1.5	<0.20	<5.0
	8/13/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.1	170	17	<20	<0.50	<1.5	<0.20	<5.0
	10/31/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/29/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.1	170	17	<20	<0.50	<1.5	<0.20	<5.0
EPA		1	3500	7	70	1	200	2.8	1	1	1000	50	1000	50	5000	5	15	1.1	
RPS:	Remediation Performance Standard				NS= Not Sampled														

TABLE 5 (Page 3 of 3)
EFFLUENT ANALYTICAL RESULTS
MACON SOURCE AREA
Macon Dockery Site
Richmond County, North Carolina

Sample Location	Date	Iron (ug/L)	ethene (ug/L)	ethane (ug/L)	Dichloromethane (ug/L)	ethene (ug/L)	ethene (ug/L)	ethene (ug/L)	chloride (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Chromium (ug/L)	Barium (ug/L)	Manganese (ug/L)	Zinc (ug/L)	Cadmium (ug/L)	Lead (ug/L)	Mercury (ug/L)	Solids (mg/L)
	5/30/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	8.0	230	16	23	<0.50	<1.5	<0.20	<5.0
	8/1/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7.2	250	<5.0	<20	<0.50	<15	NS	<5.0
	10/14/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.8	210	<5.0	<20	6.8	<15	NS	<5.0
	1/31/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/10/2011	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	9.3	260	21	<20	<0.50	<1.5	NS	<5.0
	9/19/2011	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	22	220	78	<20	<0.50	2.4	NS	7.5
	11/11/2011	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	22	225	26	<20	<0.50	<1.5	NS	<5.0
	2/22/2012	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.7	232	8.9	<20	<0.50	<1.5	NS	<5.0
	5/5/2012	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	22	218	32	<20	<0.50	<1.5	NS	<5.0
	8/31/2012	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.5	250	5.7	<20	<0.50	<1.5	<0.20	<5.0
	11/5/2012	System	Down	Not	Sampled														
	1/15/2013	System	Down	Not	Sampled														
	4/5/2013	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.5	240	<5.0	<20	<0.50	<1.5	<0.20	<5.0
	9/9/2013	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	29	260	180	47	<0.50	7.7	<0.20	9.5
	10/24/2013	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	11	95	17	<20	<0.50	<1.5	<0.20	<5.0
	1/18/2014	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	10	250	65	<20	<0.50	<1.5	<0.20	<5.0
	4/10/2014	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	12	230	34	<20	<0.50	<1.5	<0.20	<5.0
	8/14/2014	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	240	25	<20	<0.50	<1.5	<0.20	11
RPS		1	3500	7	70	1	100	2.8	1	1	1000	50	1000	50	5000	5	15	1.1	

RPS: Remediation Performance Standard
NA: Not Analyzed
Does not include Nickel at 3.1 ug/L 8/13/2009, Beryllium at 1.7 ug/L 9/9/2013, Nickel at 23 ug/L 9/9/2013, Nickel at 5.2ug/L 8/14/2014

TABLE 6 (Page 1 of 3)
EFFLUENT Analytical Results
UPPER/LOWER MACON
Macon Dockery Site
Richmond County, North Carolina

Sample Location	Date	Chloroform (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Cis-trans-1,2-Dichloroethene (ug/L)	Methylene chloride (ug/L)	Tetrachloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	Trichloroethene (ug/L)	Toluene (ug/L)	Chromium (ug/L)	Barium (ug/L)	Manganese (ug/L)	Zinc (ug/L)	Cadmium (ug/L)	Lead (ug/L)	Suspended Solids (mg/L)
U/L Effluent	2/24/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	83	150	150	<0.30	3.7	<5.0
	2/25/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	90	160	170	<0.30	3.6	<5.0
	2/28/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	32	59	<0.30	<3.0	8
	3/8/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	39	56	<0.30	<3.0	<5.0
	3/16/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	31	51	<0.30	<3.0	<5.0
	6/5/1996	<1.0	1.8	<1.0	1.6	<2.0	<1.0	<1.0	1.9	<1.0	<10	<50	44	54	<0.30	3.6	10
	5/5/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	31	16	21	<0.30	<3.0	<5.0
	6/5/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	2.1	<10	<50	7.5	<20	<0.30	<3.0	<5.0
	7/1/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	7/30/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	9/4/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	10/1/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	34
	11/7/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	12/5/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	1/6/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	2/4/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	39	<5.0	<20	<0.30	<3.0	8
	3/12/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	4/8/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	5/12/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	6/6/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<5.0	<20	<0.30	<3.0	<5.0
	7/2/1997	<1.0	2.4	<1.0	1.8	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	79	<20	<0.30	<3.0	<5.0
	7/25/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36	NA	<0.30	NA	NA
	8/7/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	5.4	<20	<0.30	3 1	NS
	9/5/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	10/2/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	6.3	<20	<0.30	<3.0	25
	11/13/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5
	12/5/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5
	1/9/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5
	2/5/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	36	<5.0	<20	<0.30	<3.0	<5
	3/5/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<200	<15	<20	<0.30	<3.0	<5.0
	4/3/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<200	<5.0	<20	<0.30	<3.0	<5.0
	5/7/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	NA
	6/5/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	7/9/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	8/7/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	9.2	<20	<0.30	<3.0	<5.0
	9/10/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	6.7	<20	<0.30	<3.0	<5.0
	10/2/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	31	<10	<20	<0.30	<3.0	<5.0
	11/4/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	6.2	<20	<0.30	<3.0	<5.0
	12/1/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	1/11/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	2/11/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	3/5/1999	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	4/8/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	5/13/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	6/10/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
RPS:		1	3500	7	70	5	1	200	2.8	1000	50	1000	50	5000	5	15	

RPS: Remediation Performance Standard
NA: Not Analyzed

TABLE 6 (Page 2 of 3)
EFFLUENT Analytical Results
UPPER/LOWER MACON
Macon Dockery Site
Richmond County, North Carolina

Sample Location	Date	Chloroform (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Cis/trans-1,2-Dichloroethene (ug/L)	Methylene chloride (ug/L)	Tetrachloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	Trichloroethene (ug/L)	Toluene (ug/L)	Chromium (ug/L)	Barium (ug/L)	Manganese (ug/L)	Zinc (ug/L)	Cadmium (ug/L)	Lead (ug/L)	Suspended Solids (mg/L)
U/L Effluent	7/8/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	8/5/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	47	<20	<0.30	3.7	<5.0
	9/9/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	10/14/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	11/3/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	12/3/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	2/17/2000	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	3/9/2000	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	4/7/2000	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	5/8/2000	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	6/9/2000	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	7/7/2000	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	20	<20	<0.30	<3.0	<5.0
	8/3/2000	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	9/25/2000	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	27	<0.30	<3.0	<5.0
	10/12/2000	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	1/18/2001	***	Not	Sampled		System	Down	***	***		Not	Sampled			System	Down	***
	4/24/2001	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	5/3/2001	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	7/20/2001	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	10/18/2001	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	12/28/2001	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	1/15/2002	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	7/31/2002		Not	Sampled		System	Down				Not	Sampled			System	Down	
	10/30/2002	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	64	<5.0	<20	<0.30	<3.0	<5.0
	1/28/2003	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	30	<20	<0.30	7.5	7
	4/1/2003	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	11	<20	<0.30	<3.0	<5.0
	7/10/2003	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	30	<20	<0.30	<3.0	<5.0
	10/10/2003	<1.0	<1.0	1	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	19	<20	<0.30	<3.0	<5.0
	1/13/2004	<1.0	<1.0	9.8	<2.0	<5.0	1.9	<1.0	<1.0	<1.0	<10	<50	29	24	<0.30	<3.0	20
	4/5/2004	<1.0	<1.0	<1.0	<2.0	<5.0	1.6	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	6/28/2004		Not	Sampled		System	Down				Not	Sampled			System	Down	
	10/21/2004	<1.0	<1.0	8.5	1.0	<5.0	1.3	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	1/27/2005	<1.0	<1.0	<1.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	5/4/2005	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	NA	30	NA	<20	<0.30	<1.5	<5.0
	8/25/2005	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	34	<5.0	<20	<0.30	NA	<5.0
	10/30/2005	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	37	<5.0	<20	<0.30	<1.5	<5.0
	1/28/2006	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	35	<5.0	<20	<0.30	<1.5	<5.0
	4/30/2006	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	5.8	<5.0	37	<0.30	<1.5	<5.0
	8/2/2006	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	36	<5.0	<20	<0.30	<1.5	<5.0
	10/29/2006	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	51	39	<5.0	<20	<0.30	<1.5	<5.0
	1/27/2007	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	38	<5.0	<20	NA	<1.5	<5.0
	4/29/2007	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	38	7.5	<20	<0.30	<1.5	<5.0
	7/29/2007	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	43	<5.0	<20	<0.30	<1.5	<5.0
	10/28/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
RPS:		1	3500	7	70	5	1	200	2.8	1800	50	1000	50	5000	5	15	

RPS: Remedianon Performance Standard NA: Not Analyzed NS: Not Sampled

TABLE 6 (Page 3 of 3)
EFFLUENT Analytical Results
UPPER/LOWER MACON
Macon Dockery Site
Richmond County, North Carolina

Sample Location	Date	Chloro-form (ug/L)	1,1-Dichloro-ethane (ug/L)	1,1-Dichloro-ethene (ug/L)	Cis-trans-1,2-Dichloroethene (ug/L)	Methylene chloride (ug/L)	Tetrachloro-ethene (ug/L)	1,1,1-Trichloro-ethane (ug/L)	Trichloro-ethene (ug/L)	Toluene (ug/L)	Chromium (ug/L)	Barium (ug/L)	Manganese (ug/L)	Zinc (ug/L)	Cadmium (ug/L)	Lead (ug/L)	Suspended Solids (mg/L)
	2/3/2008	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	45	<5.0	<20	<0.50	<1.5	<5.0
	6/3/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/23/2008	<1.0	<1.0	1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	49	<5.0	<20	<0.50	<1.5	<5.0
	10/31/2008	<1.0	<1.0	1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	48	<5.0	<20	<0.50	<1.5	<5.0
	2/19/2009	<1.0	<1.0	1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	41	<5.0	<20	<0.50	<1.5	<5.0
	4/30/2009	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	38	<5.0	<20	<0.50	<1.5	<5.0
	8/13/2009	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	32	<5.0	<20	<0.50	<1.5	<5.0
	10/31/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/29/2010	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	9.4	64	<5.0	<20	<0.50	<1.5	<5.0
	8/1/2010	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<20	<0.50	<1.5	<5.0
	10/14/2010	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<20	<0.50	<1.5	<5.0
	1/31/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/10/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<20	<0.50	<1.5	<5.0
	9/19/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	63	<5.0	<20	<0.50	<1.5	<5.0
	11/11/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	23	<5.0	<20	<0.50	<1.5	<5.0
	2/22/2012	<1.0	<1.0	2.2	<1.0	<2.0	1	<1.0	<1.0	<1.0	<5.0	59	<5.0	<20	<0.50	<1.5	<5.0
	5/3/2012	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	35	<5.0	<20	<0.50	<1.5	<5.0
	8/31/2012	System	Down	Not	Sampled												
	11/5/2012	System	Down	Not	Sampled												
	1/15/2013	System	Down	Not	Sampled												
	4/5/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/12/2013	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	35	<5.0	<20	<0.50	<1.5	<5.0
	10/24/2013	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	6.2	71	5.5	<20	<0.50	<1.5	<5.0
	1/18/2014	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	10	42	5.6	<20	<0.50	<1.5	<5.0
	4/10/2014	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	5.8	51	<5.0	<20	<0.50	<1.5	<5.0
	8/14/2014	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	9.3	260	25	21	<0.50	<1.5	24
RPS:		1	3560	7	70	5	1	200	2.8	1000	50	1000	50	5000	5	15	

RPS: Remediation Performance Standard NA: Not Analyzed NS: Not Sampled

TABLE 7
Influent Analytical Results
Upper Dockery
Macon/Dockery Site
Richmond County, North Carolina

Sample Location	Date	1,1 - Dichloro-ethane (ug/L)	1,1 - Dichloro-ethene (ug/L)	Cis/trans-1,2-Dichloroethene (ug/L)	Tetrachloro-ethene (ug/L)	1,1,1-Trichloro-ethane (ug/L)	Trichloro-ethene (ug/L)	Toluene (ug/L)	Total Xylenes (ug/L)	Acetone (ug/L)	Chromium (ug/L)	Barium (ug/L)	Manga-nese (ug/L)	Zinc (ug/L)	Lead (ug/L)	Suspended Solids (mg/L)
UD Influent	2/13/1996	4.8	150E	1.3	1.3	54	8	3	3.1	<10	20	92	64	33	3.1	51
	2/13/1996	7.7	130	<1.0	<1.0	33	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<20	<3.0	<5.0
	2/14/1996	4.3	89E	1.2	<1.0	55	6.5	<1.0	<3.0	<10	12	53	14	<20	<3.0	52
	2/14/1996	6.5	100	<1.0	<1.0	34	5.3	<1.0	<3.0	<10	<10	<50	<5.0	<20	<3.0	<5.0
	2/14/1996	4.4	120E	1.4	1.3	50	7.9	<1.0	<3.0	<10	11	54	14	<20	<3.0	<5.0
	2/14/1996	4.0	110	<1.0	<1.0	48	7.8	<1.0	<3.0	<10	<10	<50	<5.0	<20	<3.0	<5.0
	2/15/1996	4.5	130E	1.2	1.4	54	8.3	<1.0	<3.0	<10	19	81	53	<20	<3.0	<5.0
	2/15/1996	5.5	140	2	<1.0	56	8.6	2.8	<3.0	<10	<10	<50	<5.0	<20	<3.0	<5.0
	2/16/1996	7.5	160	<1.0	<1.0	64	10	<1.0	<3.0	<10	11	57	11	<20	<3.0	<5.0
	2/17/1996	5.7	180E	1.7	2.1	62	9.4	<1.0	<3.0	<10	<10	55	12	<20	<3.0	8
	2/17/1996	5.5	120	<1.0	<1.0	42	6.4	<1.0	<3.0	<10	<10	<50	<5.0	<20	<3.0	<5.0
	2/22/1996	5.4	150E	1.4	<1.0	52	5.7	<1.0	<3.0	<10	13	<50	13	<20	<3.0	<5.0
	2/23/1996	4.9	96	<1.0	<1.0	48	5.5	<1.0	<3.0	<10	<10	<50	<5.0	<20	<3.0	<5.0
	2/28/1996	6.4	200E	1.9	1	19	5.3	<1.0	<3.0	<10	11	<50	7.7	<20	<3.0	<5.0
	2/28/1996	6.8	240	<1.0	<1.0	50	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<20	<3.0	<5.0
	3/8/1996	5.2	130	1.7	<1.0	53	3.8	<1.0	<3.0	<10	<10	<50	<5.0	<20	<3.0	8
	4/3/1996	3.6	160E	1.1	1.6	38	5.6	<1.0	<3.0	<10	11	52	<5.0	<20	<3.0	<5.0
	4/3/1996	3	92	<1.0	<1.0	25	3.9	<1.0	<3.0	<10	<10	<50	<5.0	<20	<3.0	<5.0
	5/3/1996	4	130	<1.0	<1.0	38	4.8	<1.0	<3.0	<10	16	58	<5.0	<20	<3.0	<5.0
	6/5/1996	2	110	<1.0	<1.0	5.2	<1.0	2.8	<3.0	<10	<10	<50	<5.0	<20	<3.0	<5.0
	7/1/1996	2	77	<1.0	<1.0	25	3.6	<1.0	<3.0	<10	<10	<50	<5.0	<20	<3.0	5
	8/1/1996	6.1	220	<5.0	<5.0	32	5.7	<5.0	<15	<50	11	<50	5.5	<20	<3.0	10
	11/7/1996	<10	340	<10	<10	54	<10	<10	<30	2100	19	61	9.5	<20	<3.0	<5.0
	11/7/1996	NA	NA	NA	NA	NA	NA	NA	NA	1300	NA	NA	NA	NA	NA	NA
	2/5/1997	<25	100	<25	<25	31	<25	<25	<75	<250	12	91	<5.0	<20	<3.0	<5.0
	5/14/1997	<1.0	56	<1.0	<1.0	16	3.5	<1.0	<3.0	<10	<10	58	5.3	<20	<3.0	<5.0
	8/7/1997	<1.0	39	<1.0	<1.0	13	2.2	<1.0	<3.0	<10	<10	<50	<5.0	<20	<3.0	<5.0
	11/13/1997	<2	88	<2	<2	16	4.2	<2	<6	<20	14.7	55.6	10.3	<20	<3.0	<5.0
	2/5/1998	<1.0	74	<1.0	<1.0	18	7.3	<1.0	<3.0	<10	42	65	78	<20	<3.0	36
	5/7/1998	<5.0	110	<5.0	<5.0	24	<5.0	<5.0	<15	110	16	50	58	<20	<3.0	<5.0
	7/9/1998	<5.0	69	<5.0	<5.0	17	<5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/7/1998	<5.0	120	<5.0	<5.0	20	6.4	<5.0	<5.0	<50	13	70	<5.0	<20	<3.0	<5.0
	11/4/1998	<5.0	140	<5.0	<5.0	21	<5.0	<5.0	<15	<50	23	93	61	<20	<3.0	96
	2/11/1999	<5.0	75	<5.0	<5.0	13	7.0	<5.0	<15	<50	11	62	<5.0	<20	<3.0	8.0
	5/12/1999	<5.0	110	<5.0	<5.0	20	9.4	<5.0	<15	<50	13	59	7.2	<20	<3.0	38
	8/5/1999	<5.0	110	<5.0	<5.0	23	5.0	<5.0	<15	<50	14	66	<5.0	<20	8.9	<5.0
	11/3/1999	<5.0	150	<5.0	<5.0	26	5.0	<5.0	<15	<50	13	68	<5.0	<20	<3.0	<5.0
	2/8/2000	<5.0	64	<5.0	<5.0	8.9	<5.0	<5.0	<15	<50	14	65	<5.0	<20	<3.0	<5.0
	5/3/2000	<5.0	62	<5.0	<5.0	10	<5.0	<5.0	<15	<50	<10	77	<5.0	<20	<3.0	<5.0
	1/18/2001	<5.0	76	<5.0	<5.0	12	<5.0	<5.0	<15	<50	<10	110	32	<20	<3.0	<5.0
	7/11/2001	10	68	<5.0	<5.0	14	9.9	<5.0	<15	<50	31	110	74	<20	3.3	280
	1/16/2002	<5.0	82	<5.0	<5.0	9.8	<5.0	<5.0	<15	<50	<10	93	6.5	<20	<3.0	<5.0
	7/31/2003	<10	220	<10	<10	21	<10	<10	<30	<100	<10	54	<5.0	<20	<3.0	5
	1/28/2003		NOT	SAMPLED	SYSTEM	DOWN					NOT		SAMPLED	SYSTEM	DOWN	
	7/10/2003	<5.0	140	<5.0	<5.0	14	5.7	<5.0	<15	<50	<10	91	6.1	<20	<3.0	<5.0
	1/13/2004	5.8	98	<10	<5.0	5.5	34	<5.0	<10	<120	<10	52	<5.0	<20	<3.0	9
	6/28/2004	6.6	120	<10	<5.0	7.9	19	<5.0	<10	<120	10	54	<5.0	<20	<3.0	<5.0
Remediation Performance St		3500	7	70	1	200	2.8	1000	400	3500	50	1000	50	5000	15	

TABLE 7
Influent Analytical Results
Upper Dockery
Macon/Dockery Site
Richmond County, North Carolina

Sample Location	Date	1,1 - Dichloro-ethane (ug/L)	1,1 - Dichloro-ethene (ug/L)	Cis/trans-1,2-Dichloroethene (ug/L)	Tetrachloro-ethene (ug/L)	1,1,1-Trichloro-ethane (ug/L)	Trichloro-ethene (ug/L)	Toluene (ug/L)	Total Xylenes (ug/L)	Acetone (ug/L)	Chromium (ug/L)	Barium (ug/L)	Manga-nese (ug/L)	Zinc (ug/L)	Lead (ug/L)	Suspended Solids (mg/L)
	1/27/2005	10	73	7.3	<3.0	4.6	28	<2.0	<3.0	<10	<10	68	<5.0	<20	<3.0	<5.0
	8/25/2005	13	46	9.7	<1.0	2.6	28	<1.0	<3.0	<10	11	70	<5.0	<20	NA	<5.0
	1/28/2006	<1.0	98	7.5	<1.0	3.4	38	<1.0	<3.0	<10	7.4	89	<5.0	<20	<1.5	<5.0
	8/3/2006	15	94	11	<1.0	4.3	33	<1.0	<3.0	<10	7.3	100	13	<20	<1.5	5.0
	1/28/2007	10	68	6.1	<1.0	4.2	15	<1.0	<3.0	<10	10	82	<5.0	<20	<1.5	<5.0
	7/10/2007	7.4	19	4.7	<1.0	1.2	9.3	<1.0	<3.0	<10	11	83	<5.0	<20	<1.5	<5.0
	2/5/2008	6.3	43	5.7	<1.0	2.3	7.3	<1.0	<3.0	<10	64	72	8.3	<20	<1.5	9.0
	8/25/2008	5.4	33	3.9	<1.0	1.6	6.7	<1.0	<3.0	<10	11	75	<5.0	<20	<1.5	<5.0
	2/19/2009	11	29	10	<1.0	1.7	16.0	<1.0	<3.0	<10	11	61	9.3	<20	<1.5	<5.0
	8/13/2009	8.5	40	7.2	<1.0	1.4	8.0	<1.0	<3.0	<10	9.9	76	<5.0	<20	<1.5	<5.0
	1/29/2010	32	54	30	<1.0	1.1	44	<1.0	<3.0	<10	11	75	10	<20	<1.5	<5.0
	10/19/2010	5.3	69	3.1	<1.0	3.3	5.0	<1.0	<3.0	<10	11	77	<5.0	<20	<1.5	5.5
	1/31/2011	4.5	52	2.6	<1.0	2.6	4.1	<1.0	<3.0	<10	10	69	<5.0	<20	<1.5	<5.0
	9/18/2011	2.3	64	<1.0	<1.0	3.3	<1.0	<1.0	<3.0	<10	7.2	65	<5.0	<20	<1.5	<5.0
	2/22/2012	3.5	46	2.2	<1.0	2.2	3.8	<1.0	<3.0	<10	11	NS	<5.0	<20	<1.5	<5.0
	8/21/2012	System	Down	Not	Sampled											
	4/5/2013	4.6	41	2.9	<1.0	1.9	4.8	<1.0	<3.0	<10	10	85	5.3	<20	<1.5	<5.0
	9/9/2013	6.3	48	4.9	<1.0	2.2	5.1	<1.0	<3.0	<10	12	87	<5.0	<20	<1.5	<5.0
	4/10/2014	4.8	58	3.2	<1.0	2.7	4.8	<1.0	<3.0	<10	<5.0	62	<5.0	<20	<1.5	<5.0
	9/14/2014	3.2	198	<1.0	<1.0	3.0	2.1	<1.0	<3.0	<10	<5.0	44	<5.0	<20	6.8	<5.0
Remediation Performance St		3500	7	70	1	200	2.8	1000	400	3500	50	1000	50	5000	15	

TABLE 8
Influent Analytical Results
Lower Dockery
Macon/Dockery Site
Richmond County, North Carolina

Sample Location	Date	Chloroform (ug/L)	1,1 - Dichloro-ethane (ug/L)	1,1 - Dichloro-ethene (ug/L)	Cis/trans-1,2-Dichloro-ethene (ug/L)	Methylene chloride (ug/L)	1,1,1-Trichloro-ethane (ug/L)	Trichloro-ethene (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Total Xylenes (ug/L)	Chromium (ug/L)	Barium (ug/L)	Manganese (ug/L)	Zinc (ug/L)	Cadmium (ug/L)	Suspended Solids (mg/L)
LD Influent	2/13/1996	1.1	88	33	<1.0	<2.0	46	6.4	<2.0	17	<3.0	<10	<50	260	270	<0.30	<5.0
	2/14/1996	1.3	110E	43	<1.0	<2.0	57	8.6	<2.0	8.3	<3.0	<10	<50	250	120	<0.30	<5.0
	2/14/1996	<1.0	88	13	<1.0	<2.0	15	<5.0	<2.0	<2.0	<3.0	<10	<50	<3.0	<20	<0.30	<5.0
	2/14/1996	1.6	94E	39	1.8	1.7	39	9	<2.0	8.3	<3.0	<10	<50	240	110	<0.30	<5.0
	2/14/1996	<1.0	64	16	2.2	2.5	18	6.6	<2.0	6.5	<3.0	<10	<50	<3.0	<20	<0.30	<5.0
	2/15/1996	1.2	82	32	1.7	<2.0	29	8.4	<2.0	5.3	<3.0	<10	<50	200	84	<0.30	<5.0
	2/16/1996	3.3	95	35	2.6	<2.0	31	8.7	<2.0	4.3	<3.0	<10	<50	190	81	<0.30	<5.0
	2/22/1996	2.5	5.8	100	<1.0	<2.0	54	5.2	1.8	13	3.4	14	<50	240	240	<0.30	<5.0
	2/28/1996	1.2	93E	33	<1.0	<2.0	38	7.4	<2.0	1.3	<3.0	<10	<50	120	77	<0.30	8
	2/28/1996	<1.0	92	35	<1.0	<2.0	39	6.4	<2.0	<2.0	<3.0	<10	<50	<3.0	<20	<0.30	<5.0
	3/5/1996	2	110	47	<1.0	<2.0	54	6.7	<2.0	<2.0	<3.0	<10	<50	95	70	<0.30	<5.0
	4/3/1996	<1.0	79	36	<1.0	<2.0	28	6.6	<2.0	<2.0	<3.0	<10	<50	160	39	<0.30	<5.0
	5/3/1996	<1.0	71	30	1.7	<2.0	40	5.4	<2.0	<2.0	<3.0	<10	16	63	200	0.91	<5.0
	6/5/1996	<1.0	67	32	1.1	2	42	5.2	<2.0	2.5	<3.0	<10	<50	230	46	<0.30	<5.0
	8/1/1996	<2.0	83	27	<4.0	<2.0	54	5.9	<2.0	<2.0	<6.0	<10	<50	110	<20	<0.30	5
	11/7/1996	<2.0	69	28	<2.0	<4.0	38	5.8	<2.0	<2.0	<6.0	<10	<50	230	<20	<0.30	<5.0
	3/12/1997	<5.0	66	21	<5.0	<10	23	<5.0	<5.0	<5.0	<15	<10	<50	76	<20	<0.30	<5.0
	5/14/1997	<1.0	62	25	<1.0	<2.0	23	6.2	<1.0	<1.0	<3.0	<10	<50	130	<20	<0.30	<5.0
	8/7/1997	<1.0	47	15	<1.0	<2.0	18	4.1	<1.0	<1.0	<3.0	<10	<50	130	<20	<0.30	<5.0
	11/13/1997	<1.0	33	13	<1.0	<2.0	12	3.5	<1.0	<1.0	<3.0	<10	<50	200	<20	<1	<5.0
	2/5/1998	<1.0	34	7.4	<1.0	<2.0	14	2.5	<1.0	<1.0	<3.0	<10	<50	340	<20	<0.30	71
	5/7/1998	<1.0	32	8.2	<1.0	<2.0	13	3.6	<1.0	<1.0	<3.0	<10	<50	240	<20	<0.30	<5.0
	8/7/1998	<1.0	39	7.6	<1.0	<2.0	13	2.6	<1.0	<1.0	<3.0	<10	<50	210	<20	<0.30	<5.0
	11/4/1998	<1.0	34	7.3	<1.0	<2.0	9.4	1.9	<1.0	<1.0	<3.0	<10	<50	270	<20	<0.30	37
	*2/11/99	<1.0	32	4.6	<1.0	<2.0	6.8	1.8	<1.0	<1.0	<3.0	<10	<50	200	<20	<0.30	<5.0
	5/12/1999	<1.0	29	5.0	<1.0	<2.0	11	2.0	<1.0	<1.0	<3.0	<10	<50	190	<20	160	<5.0
	8/5/1999	<1.0	22	3.6	<1.0	<2.0	10	1.3	<1.0	<1.0	<3.0	<10	<50	61	<20	<0.30	<5.0
	11/2/1999	<1.0	14	2.6	<1.0	<2.0	4.4	1.0	<1.0	<1.0	<3.0	<10	<50	140	<20	<0.30	<5.0
	5/9/2000	<1.0	28	2.9	<1.0	<2.0	7.4	<1.0	<1.0	<1.0	<3.0	<10	<50	70	<20	<0.30	<5.0
	8/3/2000	<1.0	23	2.5	<1.0	<2.0	12	<1.0	<1.0	<1.0	<3.0	<10	<50	180	<20	<0.30	<5.0
	1/19/2001	**	System	Down	Not	Sampled	**	***		System	Down		Not	Sampled			***
	7/11/2001	**	System	Down	Not	Sampled	**	***		System	Down		Not	Sampled			***
	9/21/2001	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<50	<5	<20	<0.30	<5.0
	1/16/2002		System	Down	Not	Sampled				System	Down		Not	Sampled			---
	7/31/2002		System	Down	Not	Sampled				System	Down		Not	Sampled			
	1/28/2003		System	Down	Not	Sampled				System	Down		Not	Sampled			
	3/14/2003	<1.0	18	4.5	<1.0	<2.0	5.1	1.1	<1.0	<1.0	<2.0	<10	<50	200	<20	<0.30	<5.0
	7/10/2003	<1.0	8.9	<1.0	<1.0	<1.0	1	<1.0	<1.0	<1.0	<3.0	<10	<50	170	<20	<0.30	<5.0
	1/13/2004	<1.0	6.5	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<50	76	<20	<0.30	13
	6/28/2004		System	Suspended	Not	Sampled				System	Suspended		Not	Sampled			
	1/27/2005		System	Suspended	Not	Sampled				System	Suspended		Not	Sampled			
	8/25/2005		System	Suspended	Not	Sampled				System	Suspended		Not	Sampled			
Remediation Performance Sta		1	3500	7	70	5	200	2.8	1	1000	400	50	1000	50	5000	5	

NA - Not Analyzed
ug/L - micrograms per liter
DUP - Duplicate

TABLE 8
Influent Analytical Results
Lower Dockery
Macon/Dockery Sits
Richmond County, North Carolina

Sample Location	Date	Chloroform (ug/L)	1,1 - Dichloroethane (ug/L)	1,1 - Dichloroethene (ug/L)	Cis/trans-1,2-Dichloroethene (ug/L)	Methylene chloride (ug/L)	1,1,1-Trichloroethane (ug/L)	Trichloroethene (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Total Xylenes (ug/L)	Chromium (ug/L)	Barium (ug/L)	Manganese (ug/L)	Zinc (ug/L)	Cadmium (ug/L)	Suspended Solids (mg/L)
	1/18/2006		System	Suspended	Not	Sampled				System	Suspended		Not	Sampled			
	8/1/2006		System	Suspended	Not	Sampled				System	Suspended		Not	Sampled			
	1/27/2007		System	Suspended	Not	Sampled				System	Suspended		Not	Sampled			
	7/29/2007		System	Suspended	Not	Sampled				System	Suspended		Not	Sampled			
	2/5/2008		System	Suspended	Not	Sampled				System	Suspended		Not	Sampled			
	8/23/2008		System	Suspended	Not	Sampled				System	Suspended		Not	Sampled			
	2/19/2009		System	Suspended	Not	Sampled				System	Suspended		Not	Sampled			
	8/13/2009		System	Suspended	Not	Sampled				System	Suspended		Not	Sampled			
	1/29/2010		System	Suspended	Not	Sampled				System	Suspended		Not	Sampled			
	1/31/2011		System	Suspended	Not	Sampled				System	Suspended		Not	Sampled			
			System	Suspended	No	Future	Samples	Collected									
Remediation Performance Sta		1	3580	7	70	5	200	2.8	1	1000	400	50	1000	50	5000	5	

NA - Not Analyzed
ug/L - micrograms per liter
DUP - Duplicate

TABLE 8
Influent Analytical Results
Upper Macon Source Area
Macon/Dockery Site
Richmond County, North Carolina

Sample Location	Date	Chloroform (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Cis/trans-1,2-Dichloroethene (ug/L)	Tetrachloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Chromium (ug/L)	Barium (ug/L)	Manganese (ug/L)	Zinc (ug/L)	Cadmium (ug/L)	Lead (ug/L)	Mercury (ug/L)	Suspended Solids (mg/L)
UMBA Influent	2/13/1996	<1.0	15	84	19	16	5.9	25	<1.0	<1.0	1.9	<10	140	300	55	<0.30	3.5	<.2	21
	2/14/1996	1.1	14	81	10	7.3	7.2	10	<1.0	1.5	<1.0	<10	110	180	<20	<0.30	<3.0	<.2	<5.0
	2/14/1996	<1.0	11	84	11	17	6.1	17	<1.0	1	<1.0	<10	110	160	20	<0.30	<3.0	<.2	<5.0
	2/15/1996	<1.0	12	84	11	18	5.9	16	<1.0	1.3	1	<10	100	140	<20	<0.30	<3.0	<.2	<5.0
	2/16/1996	<1.0	7.5	21	17	14	9.7	25	<1.0	<1.0	<1.0	<10	120	160	<20	<0.30	<3.0	0.22	<5.0
	2/17/1996	<1.0	9.7	18	16	11	7	24	<1.0	<1.0	<1.0	<10	110	110	<20	<0.30	<3.0	<.2	<5.0
	2/22/1996	1.1	10	17	16	15	7.6	25	<1.0	<1.0	<1.0	<10	120	85	<20	<0.30	<3.0	<.2	<5.0
	2/28/1996	<1.0	9.8	16	13	12	5.8	21	<1.0	<1.0	<1.0	<10	130	52	<20	<0.30	<3.0	<.2	7
	3/8/1996	<1.0	7.6	10	10	7.7	4.1	16	<1.0	<1.0	<1.0	<10	130	41	<20	<0.30	<3.0	<.2	<5.0
	4/3/1996	<1.0	5.5	16	8.5	7.4	5.4	18	<1.0	<1.0	<1.0	<10	110	27	<20	<0.30	8.2	<.2	<5.0
	5/3/1996	<1.0	4.8	12	6.9	5.7	<1.0	12	<1.0	<1.0	<1.0	<10	97	21	<20	<0.30	<3.0	<.2	<5.0
	6/5/1996	<1.0	8.7	22	6	<1.0	6	13	1.1	<1.0	3.6	<10	130	19	<20	<0.30	<3.0	<.2	5
	7/1/1996	<1.0	3.8	11	6.9	4.8	4.3	12	<1.0	<1.0	<1.0	11	110	13	<20	<0.30	<3.0	NA	5
	7/30/1996	<1.0	7.9	15	10	6.4	4.2	13	4.5	<1.0	<1.0	<10	130	13	<20	<0.30	<3.0	NA	6
	11/7/1996	<1.0	7.2	9.2	7.5	2.3	3.4	10	2	<1.0	1	<10	140	9.8	<20	<0.30	<3.0	NA	10
	2/4/1997	<1.0	3.0	27	7.8	2.3	8.8	15	<1.0	<1.0	<1.0	<10	150	24	<20	<0.30	<3.0	NA	36
(DUP)	2/4/1997	<1.0	2.4	25	6.2	1.8	7.9	14	<1.0	<1.0	<1.0	<10	140	17	<20	<0.30	<3.0	NA	<5.0
	5/12/1997	<1.0	3.8	26	16	8.9	5	22	<1.0	<1.0	<1.0	<10	120	66	<20	<0.30	<3.0	NA	<5.0
(DUP)	5/12/1997	<1.0	4.6	21	16	8.2	3.7	18	<1.0	<1.0	<1.0	<10	150	55	<20	<0.30	<3.0	NA	5
	8/7/1997	<1.0	11.0	55	23	12	6.9	17	<1.0	<1.0	<1.0	34	210	93	<20	<0.30	7.4	NA	NS
	11/13/1997	<2.0	4.8	72	12	8.7	12	13	<2.0	<2.0	<2.0	<10	139	<5.0	<20	<1	<3.0	NA	<5.0
	2/5/1998	<2.0	12.0	110	21	11	24	17	6.6	<2.0	<2.0	<10	190	16	<20	<0.30	<3.0	NA	<5.0
	5/7/1998	<2.0	11.0	67	15	13	16	11	6.6	<2.0	<2.0	<10	190	50	<20	<0.30	<3.0	NA	<5.0
	8/7/1998	<10	<10	120	<10	<20	22	<10	<10	<10	<10	<10	180	34	<20	<0.30	<3.0	NA	<5.0
	11/4/1998	<10	<10	180	<10	<10	23	<10	<10	<10	<10	<10	180	22	<20	<0.30	<3.0	NA	5
	2/11/1999	<10	16	370	12	30	57	14	<10	<10	<10	<10	200	25	<20	<0.30	<3.0	NA	<5.0
	5/13/1999	<25	<25	380	<25	<25	61	<25	<25	<25	<25	<10	160	14	<20	32	<3.0	NA	<5.0
	8/5/1999	<25	<25	490	<25	<25	78	<25	<25	<25	<25	<10	140	12	<20	<0.30	5.9	NA	<5.0
	11/2/1999	<25	<25	480	<25	26	69	<25	<25	<25	<25	<10	180	13	<20	<0.30	<3.0	NA	<5.0
	2/16/2000	<2.0	59	32	37	<2.0	<2.0	2.5	54	<2.0	<2.0	<10	290	53	<20	<0.30	<3.0	NA	<5.0
	5/8/2000	<10	18	110	36	<10	<10	<10	<10	<10	<10	<10	350	76	<20	<0.30	<3.0	NA	<5.0
	8/2/2000	<10	<10	480	<10	49	54	<10	<10	<10	<10	<10	170	13	<20	<0.30	<3.0	NA	<5.0
	1/18/2001	<10	<10	75	10	<10	<10	10	<10	<10	<10	<10	98	<5.0	<20	<0.30	<3.0	NA	<5.0
	7/11/2001	<25	44	350	57	28	42	26	<25	<25	<25	<10	360	<5.0	<20	<0.30	<3.0	NA	<5.0
	1/15/2002	<25	<25	570	60	27	25	<25	<25	<25	<25	<10	340	5.2	<20	<0.30	<3.0	NA	<5.0
	7/30/2002	<25	<25	420	52	<25	<25	<25	<25	<25	<25	<10	340	<5.0	<20	<0.30	<3.0	NA	<5.0
	1/28/2003		NOT	SAMPLED	SYSTEM	DOWN				NOT	SAMPLED		SYSTEM	DOWN					
	3/14/2003	<25	<25	530	73	40	<25	<25	<25	<25	<25	<10	340	<5.0	<20	<0.30	<3.0	<0.20	<5.0
	7/10/2003	<2.0	14	49	4.7	<2.0	<2.0	3.2	<2.0	<2.0	<2.0	<10	370	93	96	<0.30	<3.0	NA	<5.0
	1/13/2004	<10	<10	160	28	16	<10	<10	<10	<10	<10	<10	160	<5.0	<20	<0.30	<3.0	NA	7
	6/29/2004	<10	<10	180	22	13	<10	<10	<10	<10	<10	<10	180	<5.0	<20	<0.30	<3.0	NA	<5.0
Remediation Performance Standard		1	3500	7	70	1	200	2.8	1	1	1000	50	1000	50	5000	5	15	1.1	

NA - Not Analyzed
ug/L - micrograms per liter
DUP - Duplicate

TABLE 9
Influent Analytical Results
Upper Macon Source Area
Macon/Dockery Site
Richmond County, North Carolina

Sample Location	Date	Chloroform (ug/L)	1,1-Dichloro-ethane (ug/L)	1,1-Dichloro-ethene (ug/L)	Cis/trans-1,2-Dichloro-ethene (ug/L)	Tetrachloro-ethene (ug/L)	1,1,1-Trichloro-ethane (ug/L)	Trichloro-ethene (ug/L)	Vinyl chloride (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Chromium (ug/L)	Barium (ug/L)	Magnesium (ug/L)	Zinc (ug/L)	Cadmium (ug/L)	Lead (ug/L)	Mercury (ug/L)	Suspended Solids (mg/L)
UMSA Influent	1/27/2005	<1.0	9.9	96	20	20	4.8	8.5	1.3	<1.0	<1.0	<10	200	10	<20	<0.30	<3.0	NA	<5.0
	8/25/2005	<1.0	10	55	16	12	3.1	9.5	<1.0	<1.0	<1.0	<5.0	130	<5.0	<20	<0.30	NA	NA	6.0
	1/18/2006	<1.0	17	87	17	22	3.9	7.0	<1.0	<1.0	<1.0	5.7	170	6.7	<20	<0.30	<1.5	NA	<5.0
	8/2/2006	<1.0	7.6	71	13	13	2.6	5.2	<1.0	<1.0	<1.0	41	230	530	22	<0.30	5.5	NA	7.0
	1/18/2007	<2.0	6.6	49	15	10	2.8	8.0	<2.0	<2.0	<2.0	8.3	160	100	<20	NA	<1.5	NA	<5.0
	7/28/2007	<1.0	8.0	68	12	12	2.5	4.9	<1.0	<1.0	<1.0	6.3	220	27	<20	<0.30	<1.5	NA	7.0
	2/3/2008	<1.0	6.5	51	13	10	1.8	5.2	<1.0	<1.0	<1.0	<5.0	170	<5.0	<20	<0.50	<1.5	NA	<5.0
	8/23/2008	<1.0	7.5	35	10	8.0	1.1	4.5	<1.0	<1.0	<1.0	7.7	190	76	<20	<0.50	1.6	NA	21
	2/19/2009	<1.0	5.2	36	11	10.0	1.1	8.1	<1.0	<1.0	<1.0	<5.0	130	7.0	<20	<0.50	1.5	<0.20	<5.0
	8/13/2009	<1.0	6.4	28	9.0	7.1	<1.0	4.4	<1.0	<1.0	<1.0	5.1	150	19	<20	<0.50	<1.5	NA	<5.0
	1/29/2010	<1.0	6.7	9.7	3.1	6.0	<1.0	1.3	<1.0	<1.0	<1.0	8.2	181	12	<20	<0.50	<1.5	NA	<5.0
	10/14/2010	<1.0	8.5	66	8.9	2.9	1.4	2.9	<1.0	<1.0	<1.0	6.2	280	7.7	<20	6.2	<1.5	NA	<5.0
	1/31/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/19/2011	<1.0	3.2	4.6	1.5	4.4	<1.0	<1.0	<1.0	<1.0	<1.0	13	160	110	<20	<0.50	<1.5	NA	<5.0
	2/22/2012	<1.0	10	2.0	6.9	1.8	<1.0	1.8	<1.0	<1.0	<1.0	6.9	285	5.0	<20	<0.50	<1.5	NA	8.5
	8/21/2012	<1.0	13	<1.0	6.8	1.1	<1.0	1.5	<1.0	<1.0	<1.0	6.4	260	<5.0	<20	<0.50	<1.5	NA	<5.0
	4/9/2013	<1.0	9.9	1.6	4.5	1.1	<1.0	1.8	<1.0	<1.0	<1.0	6.1	250	<5.0	<20	<0.50	<1.5	<0.20	<5.0
	9/9/2013	<1.0	4.4	1.2	2.4	2.7	<1.0	1.1	<1.0	<1.0	<1.0	<5.0	188	890	27	<0.50	<1.5	<0.20	10
	4/10/2014	<1.0	1.5	<1.0	1.8	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	108	65	<20	<0.50	<1.5	<0.20	<5.0
	8/14/2014	<1.0	<1.0	<1.0	<1.0	3.4	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	34	27	45	<0.50	<1.5	<0.20	10
Remediation Performance Standard		1	3500	7	70	1	200	2.8	1	1	1000	50	1000	50	5000	5	15	1.1	

NA - Not Analyzed
ug/L - micrograms per liter
DUP - Duplicate

TABLE 10
Influent Analytical Results
Upper/Lower Macon System
Macon Dockery Site
Richmond County, North Carolina

Sample Location	Date	Chloro-form (ug/L)	1,1 - Dichloro-ethane (ug/L)	1,1 - Dichloro-ethene (ug/L)	Cis-trans-1,2-Dichloroethene (ug/L)	Methylene chloride (ug/L)	Tetrachloro-ethene (ug/L)	1,1,1-Trichloro-ethane (ug/L)	Trichloro-ethene (ug/L)	Toluene (ug/L)	Chromium (ug/L)	Barium (ug/L)	Manga-nese (ug/L)	Zinc (ug/L)	Cadmium (ug/L)	Lead (ug/L)	Suspended Solids (mg/L)
UM Influent	2/22/1996	6	4.1	1.6	5.8	<2.0	4.8	<1.0	12	15	<10	<50	36	120	<0.30	4.8	<5.0
	2/23/1996	5	4.5	1.6	6.4	<2.0	4.8	<1.0	12	12	<10	<50	31	110	<0.30	4.5	<5.0
	2/24/1996	1.6	4.6	1.8	6.4	<2.0	6	<1.0	14	9.7	<10	<50	30	110	<0.30	3.6	<5.0
	2/25/1996	1.2	<1.0	2.2	6.6	<2.0	6.9	<1.0	15	9.2	<10	<50	28	110	<0.30	3.4	<5.0
	2/28/1996	3.5	5.8	1.4	8.6	<2.0	5	<1.0	14	2.9	<10	<50	18	40	<0.30	<3.0	<5.0
	3/8/1996	<1.0	4.7	1	8.6	<2.0	3.8	<1.0	12	<1.0	<10	<50	13	30	<0.30	<3.0	<5.0
	3/18/1996	<1.0	5.5	1.8	9.2	<2.0	4.6	<1.0	12	<1.0	<10	<50	20	50	<0.30	<3.0	<5.0
	4/5/1996	<1.0	4.4	1.6	6.6	<2.0	4	<1.0	10	<1.0	<10	<50	9.3	36	<0.30	3	10
	6/5/1996	<1.0	4.9	1.8	7.7	<2.0	<1.0	<1.0	9.8	3.2	<10	<50	<5.0	32	<0.30	<3.0	13
	7/1/1996	<1.0	3.8	1.1	6.1	<2.0	3.3	<1.0	7.6	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	7/30/1996	<1.0	4.1	2.1	8.6	<2.0	3.3	<1.0	9.8	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	11/7/1996	<1.0	5.3	1.9	6.6	<2.0	2.3	<1.0	8.3	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	2/4/1997	<1.0	5.5	1.6	7	<2.0	2.5	<1.0	8.2	<1.0	<10	36	<5.0	<20	<0.30	<3.0	<5.0
	5/12/1997	<1.0	11	2.5	1.8	<2.0	<1.0	4.5	4.1	<1.0	<10	<50	12	<20	<0.30	<3.0	<5.0
	8/7/1997	<1.0	5.8	1.8	7	<2.0	2.1	<1.0	8.1	<1.0	<10	<50	7.2	<20	<0.30	<3.0	NA
	11/13/1997	<1.0	5.3	1.1	3.9	<2.0	1.6	<1.0	3.9	<1.0	<10	<50	28.7	<20	<0.30	<3.0	<5.0
	2/5/1998	<1.0	6.9	1.6	6.7	<2.0	1.1	<1.0	5.9	<1.0	<10	<50	8.4	<20	<0.30	<3.0	5
	5/7/1998	<1.0	5	1.8	5.6	<2.0	2.5	<1.0	5.8	<1.0	<10	<50	16	<20	<0.30	<3.0	<5.0
	8/7/1998	<1.0	3.6	1.6	6.4	<2.0	1.2	<1.0	6.2	<1.0	<10	<50	13	<20	<0.30	<3.0	<5.0
	11/4/1998	<1.0	2.9	1.4	3.7	<2.0	<1.0	<1.0	3.6	<1.0	<10	<50	52	<20	<0.30	<3.0	<5.0
	2/11/1999	<1.0	4.3	2	5.1	<2.0	1	<1.0	4.4	<1.0	<10	<50	14	<20	<0.30	<3.0	<5.0
	5/13/1999	<1.0	4.4	3.4	8.1	<2.0	1.6	<1.0	5.3	<1.0	<10	<50	11	<20	49	<3.0	<5.0
	8/5/1999	<1.0	4.1	3.3	6.5	<2.0	1.3	<1.0	4.2	<1.0	<10	<50	<5.0	<20	<0.30	7.2	<5.0
	11/3/1999	<1.0	4.2	5.6	6.1	<2.0	1.5	1	4.2	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	2/16/2000	<1.0	3	3.3	4.0	<2.0	1.2	<1.0	2.8	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	5/8/2000	<1.0	3.9	10	6.3	<2.0	2.3	1.6	3.2	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	8/2/2000	<1.0	4.5	16	8.7	<2.0	4.2	2.6	5.6	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	1/19/2001	***	Not	Sampled		System	Down	***	***		Not	Sampled			System	Down	***
	7/11/2001	<5.0	9.7	37	7.6	<10	7.3	8.6	6.7	<5.0	<10	<50	15	<20	<0.30	<3.0	
	1/15/2002	<2.0	2.6	32	7.4	<4.0	6.5	4	3.9	<2.0	<10	<50	13	<20	<0.30	<3.0	<5.0
	7/31/2002		Not	Sampled		System	Down				Not	Sampled			System	Down	
	1/28/2003	<1.0	<1.0	19	1.2	<2.0	2.8	1.8	<1.0	<1.0	<10	<50	19	<20	<0.30	<3.0	58
	7/18/2003	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	22	<0.30	<3.0	<5.0
	1/13/2004	<5.0	<5.0	49	<10	<25	9.4	<5.0	<5.0	<5.0	<10	52	<5.0	<20	<0.30	<3.0	10
	6/28/2004		Not	Sampled		System	Down				Not	Sampled			System	Down	
Remediation Performance St		1	3500	7	70	5	1	200	2.8	1000	50	1000	50	5000	5	15	

NA - Not Analyzed
ug/L - micrograms per liter
DUP - Duplicate

TABLE 10
Influent Analytical Results
Upper/Lower Macon System
Macon Dockery Site
Richmond County, North Carolina

Sample Location	Date	Chloro-form (ug/L)	1,1 - Dichloro-ethane (ug/L)	1,1 - Dichloro-ethene (ug/L)	Cis-trans-1,2-Dichloroethene (ug/L)	Methylene chloride (ug/L)	Tetrachloro-ethene (ug/L)	1,1,1-Trichloro-ethane (ug/L)	Trichloro-ethene (ug/L)	Toluene (ug/L)	Chromium (ug/L)	Barium (ug/L)	Manga-nese (ug/L)	Zinc (ug/L)	Cadmium (ug/L)	Lead (ug/L)	Suspended Solids (mg/L)
UM Influent	1/27/2005	<1.0	5.0	75	6.8	<2.0	14	4.5	4.4	<1.0	<10	<50	<5.0	<20	<0.50	<5.0	<5.0
	8/25/2005	<1.0	4.3	51	5.1	<2.0	9.6	3.6	3.4	<1.0	<5.0	34	<5.0	<20	<0.50	NA	<5.0
	1/26/2006	<1.0	3.2	38	4.0	<2.0	8.3	2.5	2.8	<1.0	<5.0	39	<5.0	<20	<0.50	<1.5	<5.0
	8/2/2006	<1.0	3.9	53	5.2	<2.0	9.3	2.7	3.0	<1.0	<5.0	46	<5.0	<20	<0.50	<1.5	<5.0
	1/23/2007	<1.0	6.4	99	7.1	<2.0	13	4.3	5.2	<1.0	<5.0	43	8.6	<20	NA	<1.5	<5.0
	7/29/2007	<1.0	3.8	84	3.6	<2.0	13	3.3	2.8	<1.0	<5.0	49	<5.0	<20	<0.50	<1.5	<5.0
	2/5/2008	<1.0	4.5	68	4.8	<2.0	12	2.7	2.8	<1.0	<5.0	44	<5.0	<20	<0.50	<1.5	5.0
	8/13/2008	<1.0	5.5	98	8.5	<2.0	16	3.0	4.1	<1.0	<5.0	47	<5.0	<20	<0.50	<1.5	<5.0
	2/19/2009	<1.0	3.8	71	4.9	<2.0	12	1.7	2.6	<1.0	<5.0	40	<5.0	<20	<0.50	<1.5	<5.0
	8/13/2009	<1.0	3.0	43	3.9	<2.0	8.4	1.3	2.3	<1.0	<5.0	32	<5.0	<20	<0.50	<1.5	5.5
	1/29/2010		Not	Sampled		System	Down				Not	Sampled			System	Down	
	10/19/2010	<1.0	3.4	65	4.5	<2.0	6.2	1.8	2.1	<1.0	<5.0	35	<5.0	<20	<0.50	<1.5	<5.0
	1/31/2011	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/19/2011	<1.0	1.5	16	1.3	<2.0	4.4	<1.0	<1.0	<1.0	<5.0	70	5.8	<20	<0.50	2.7	7.0
	2/22/2012	<1.0	12	28	4.3	<2.0	13	1.5	2.6	<1.0	<5.0	53	<5.0	<20	<0.50	<1.5	<5.0
	8/31/2012	System	Down	Not	Sampled												
	4/4/2013	<1.0	5.3	15	6.5	<2.0	7.5	1.1	2.5	<1.0	<5.0	122	<5.0	<20	<0.50	<1.5	<5.0
	9/9/2013	<1.0	1.7	14	1.5	<2.0	3.6	<1.0	<1.0	<1.0	<5.0	61	<5.0	<20	<0.50	6.3	5.0
	4/10/2014	<1.0	3.5	20	3.8	<2.0	5.9	1.5	1.2	<1.0	<5.0	105	<5.0	<20	<0.50	<1.5	<5.0
	8/14/2014	<1.0	2.3	61	1.3	<2.0	20	1.3	1.4	<1.0	<5.0	91	44	130	<0.50	11	23
Remediation Performance St		1	3500	7	70	5	1	200	2.8	1000	50	1000	50	9000	5	15	

NA - Not Analyzed
ug/L - micrograms per liter
DUP - Duplicate

TABLE 10
Influent Analytical Results
Upper/Lower Macon System
Macon Dockery Site
Richmond County, North Carolina

Sample Location	Date	Chloro-form (ug/L)	1,1 - Dichloro-ethane (ug/L)	1,1 - Dichloro-ethene (ug/L)	Cis/trans-1,2-Dichloroethene (ug/L)	Methylene chloride (ug/L)	Tetrachloro-ethene (ug/L)	1,1,1-Trichloro-ethane (ug/L)	Trichloro-ethene (ug/L)	Toluene (ug/L)	Chromium (ug/L)	Barium (ug/L)	Manga-nese (ug/L)	Zinc (ug/L)	Cadmium (ug/L)	Lead (ug/L)	Suspended Solids (mg/L)
LM Influent	2/23/1996	14	26	9.1	4.4	<2.0	2	14	3.3	13	<10	77	150	120	<0.30	5.5	<5.0
	2/23/1996	13	29	11	4.9	<2.0	2.1	15	3.6	18	<10	81	140	130	<0.30	5	<5.0
	2/24/1996	8.9	30	13	4.9	<2.0	2.7	17	4.5	17	<10	86	160	160	<0.30	4.4	<5.0
	2/25/1996	8.2	31	13	5	<2.0	2.6	17	4.4	15	<10	85	160	160	<0.30	3.2	<5.0
	2/26/1996	3	32	15	5.6	<2.0	2.4	17	4	4.2	<10	100	150	240	<0.30	3.3	<5.0
	3/8/1996	<1.0	9.5	1.6	2.4	<2.0	<1.0	2.5	1.1	<1.0	<10	<50	72	52	<0.30	<3.0	7
	3/16/1996	<1.0	8.1	1.8	2.4	<2.0	<1.0	3.4	1.4	<1.0	<10	<50	53	57	<0.30	<3.0	<5.0
	4/3/1996	<1.0	7.3	2.6	2.3	<2.0	1	4	4.7	<1.0	<10	<50	72	64	<0.30	<3.0	7
	5/3/1996	<1.0	8.6	2.7	2.9	<2.0	<1.0	4.2	4.6	<1.0	<10	24	31	27	<0.30	<3.0	<5.0
	6/5/1996	<1.0	12	4.7	3.4	<2.0	<1.0	5.3	4.9	4.6	<10	<50	21	24	<0.30	<3.0	5
	7/30/1996	<1.0	17	6.6	<1.0	<2.0	<1.0	6.7	4.1	<1.0	<10	<50	20	<20	<0.30	<3.0	6
	11/7/1996	<1.0	11	3.3	2.2	<2.0	<1.0	5.2	4.5	<1.0	<10	<50	6.4	<20	<0.30	<3.0	<5.0
	2/4/1997	1.6	9.8	2.1	2.4	<2.0	<1.0	4.4	3.7	<1.0	<10	14	19	<20	<0.30	<3.0	<5.0
(DUP)	2/4/1997	1.5	9.0	1.8	2.1	<2.0	<1.0	3.8	3.1	<1.0	<10	14	16	<20	<0.30	<3.0	<5.0
	5/12/1997	<1.0	5.3	2.6	6.4	<2.0	2	<1.0	8.3	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	8/7/1997	<1.0	13.0	<1.0	1.2	<2.0	<1.0	4.4	3.3	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	NA
	11/13/1997	<1.0	9.5	1.8	<10	<2.0	<1.0	3.3	1.9	<1.0	<1.0	<50	55.1	<20	<0.30	<3.0	<5.0
	2/5/1998	<1.0	13.0	1.9	1.2	<2.0	<1.0	4.1	3.4	<1.0	<10	<50	11	<20	<0.30	<3.0	<5.0
	5/7/1998	<1.0	12.0	2.5	1.6	<2.0	<1.0	4.1	3.7	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	8/7/1998	<1.0	16.0	1.1	1	<2.0	<1.0	4.4	3.5	<1.0	<10	<50	17	<20	<0.30	<3.0	<5.0
	11/4/1998	<1.0	13.0	1.3	<1.0	<2.0	<1.0	4.1	3.0	<1.0	<10	38	99	<20	<0.30	3.0	40
	2/11/1999	<1.0	13.0	2.2	1.3	<2.0	<1.0	3.7	3.6	<1.0	<10	<50	8.8	<20	<0.30	<3.0	9.0
	5/13/1999	<1.0	10.0	1.4	<1.0	<2.0	<1.0	4.1	3.7	<1.0	<10	<50	70	<20	25	<3.0	<5.0
	8/5/1999	<1.0	7.8	1.0	<1.0	<2.0	<1.0	3.4	2.4	<1.0	<10	<50	<5.0	<20	<0.30	6.4	<5.0
	11/3/1999	<1.0	2.0	<1.0	1.1	<2.0	<1.0	<1.0	1	<1.0	<10	<50	6.1	<20	<0.30	<3.0	<5.0
	2/16/2000	<1.0	<1.0	<1.0	1.4	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	8.0	39	<0.30	<3.0	<5.0
	5/9/2000	<1.0	1.9	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	6.4	<20	<0.30	<3.0	<5.0
	8/2/2000	<1.0	11.0	2.7	1.3	<2.0	<1.0	4.7	3.1	<1.0	<10	<50	<5.0	<20	<0.30	<3.0	<5.0
	1/18/2001	***	Not	Sampled		System	Down	***	***		Not	Sampled			System	Down	***
	7/11/2001	<1.0	6.1	2.0	1.0	<2.0	<1.0	2.8	3.4	<1.0	<10	<50	7.3	<20	<0.30	<3.0	12
	1/15/2002	<1.0	4.5	1.7	<1.0	<2.0	<1.0	1.2	1.4	<1.0	<10	<50	8.6	<20	<0.30	<3.0	<5.0
	7/31/2002		Not	Sampled		System	Down				Not	Sampled			System	Down	
	1/28/2003	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	8.2	<20	<0.30	<3.0	20
	7/10/2003		Not	Sampled		System	Down				Not	Sampled			System	Down	
	1/13/2004	<1.0	1.7	1.3	<2.0	<5.0	<1.0	<1.0	1.8	<1.0	<10	<50	<5.0	<50	<0.30	<3.0	11
	6/28/2004		Not	Sampled		System	Down				Not	Sampled			System	Down	
	1/27/2005	<1.0	<1.0	3.5	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10	<50	<5.0	<20	<0.3	<3.0	<5.0
	8/25/2005	<1.0	1.2	12	1.4	<2.0	3.1	<1.0	<1.0	<1.0	<5.0	25	<5.0	<20	<0.30	NA	<5.0
	1/26/2006	<1.0	2.1	23	2.9	<2.0	5.5	1.6	2.6	<1.0	<5.0	26	<5.0	<20	<0.30	<1.5	<5.0
	8/2/2006	<1.0	<1.0	1.2	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	5.1	<5.0	<20	<0.30	<1.5	<5.0
	1/26/2007	<1.0	3.9	3.9	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	6.7	<5.0	<20	NA	<1.5	<5.0
	7/29/2007	<1.0	<1.0	1.8	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	5.9	<5.0	<20	<0.30	<1.5	<5.0
	2/3/2008	<1.0	<1.0	2.6	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	7.7	<20	<0.50	<1.5	<5.0
	8/23/2008*	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	5.4	8.0	24	<0.50	<1.5	<5.0
	2/19/2009	<1.0	<1.0	2.2	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	40	5.2	30	<0.50	4.4	<5.0
	8/13/2009	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	33	<0.50	<1.5	<5.0
	1/29/2010	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<5.0	16	16	49	<0.50	18	25
	1/31/2011		System	Suspended	Not	Sampled					System	Suspended	Not	Sampled			
			System	Suspended	No	Future	Samples	Collected									
Remediation Performance St		1	3500	7	70	5	1	200	2.8	1000	50	1000	50	5000	5	15	

ug/L - micrograms per liter
DUP - Duplicate

* Table does not include Acetone reported 8/23/2008 at 42 ug/L.

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
Upper Dockery				
MW 15*	2/12/1996	257.10	36.47	220.63
	2/14/1996		36.96	220.14
	2/15/1996		37.43	219.67
	2/23/1996		38.80	218.30
	2/28/1996		37.07	220.03
	5/2/1996		38.08	219.02
	6/5/1996		37.04	220.06
	7/1/1996		38.76	218.34
	7/31/1996		40.25	216.85
	11/8/1996		38.56	218.54
	2/5/1997		37.45	219.65
	5/12/1997		37.07	220.03
	8/5/1997		38.66	218.44
	11/12/1997		42.23	214.87
	2/4/1998		33.45	223.65
	5/5/1998		33.55	223.55
	8/5/1998		40.74	216.36
	11/3/1998		44.12	212.98
	2/10/1999		43.16	213.94
	5/12/1999		44.94	212.16
	8/5/1999		45.57	211.53
	11/2/1999		46.12	210.98
	2/16/2000		40.91	216.19
	5/8/2000		40.78	216.32
	8/3/2000		42.85	214.25
	1/18/2001		43.28	213.82
	7/11/2001		43.11	213.99
	1/16/2002		46.56	210.54
	7/31/2002		44.86	212.24
	1/28/2003		38.18	218.92
	7/10/2003		33.72	223.38
	1/13/2004		42.20	214.90
	6/28/2004		43.89	213.21
	1/27/2005		46.91	210.19
	7/30/2005		45.25	211.85
	8/2/2006		44.38	212.72
	7/29/2007		41.49	215.61
	8/23/2008		43.64	213.46
	8/13/2009		43.99	213.11
	10/19/2010		45.06	212.04

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	5/10/2011		43.51	213.59
	8/31/2012		40.76	216.34
	9/18/2013		39.26	217.84
	8/14/2014		41.55	215.55
MW 15A	2/12/1996	257.29	34.77	222.52
	5/2/1996		36.02	221.27
	6/5/1996		35.96	221.33
	7/1/1996		36.89	220.40
	7/31/1996		38.20	219.09
	11/8/1996		36.16	221.13
	2/5/1997		35.53	221.76
	5/12/1997		35.33	221.96
	8/5/1997		36.88	220.41
	11/12/1997		40.04	217.25
	2/4/1998		31.91	225.38
	5/5/1998		31.97	225.32
	8/5/1998		38.55	218.74
	11/3/1998		41.61	215.68
	2/10/1999		40.53	216.76
	5/12/1999		42.32	214.97
	8/5/1999		43.03	214.26
	11/2/1999		43.15	214.14
	2/16/2000		38.30	218.99
	5/8/2000		38.63	218.66
	8/3/2000		40.85	216.44
	1/18/2001		41.05	216.24
	7/11/2001		41.00	216.29
	1/16/2002		44.70	212.59
	7/30/2002		43.22	214.07
	1/28/2003		36.19	221.10
	7/10/2003		33.66	223.63
	1/13/2004		42.24	215.05
	6/28/2004		43.80	213.49
	1/27/2005		44.37	212.92
	7/30/2005		44.01	213.28
	8/2/2006		43.82	213.47
	7/29/2007		42.96	214.33
	8/23/2008		40.60	216.69
	8/13/2009		44.10	213.19
	10/19/2010		40.03	217.26
	5/10/2011		42.34	214.95

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	8/31/2012		40.87	216.42
	9/18/2013		44.20	213.09
	8/14/2014		43.84	213.45
MW 18	2/12/1996	242.54	30.99	211.55
	2/14/1996		32.80	209.74
	2/15/1996		33.62	208.92
	5/2/1996		34.40	208.14
	6/5/1996		32.30	210.24
	7/1/1996		34.02	208.52
	7/31/1996		36.50	206.04
	11/8/1996		37.96	204.58
	2/5/1997		35.13	207.41
	5/12/1997		34.03	208.51
	8/5/1997		33.90	208.64
	11/12/1997		37.84	204.70
	2/4/1998		30.26	212.28
	5/5/1998		36.90	205.64
	8/5/1998		42.56	199.98
	11/3/1998		46.49	196.05
	2/10/1999		45.18	197.36
	5/12/1999		46.27	196.27
	8/5/1999		43.52	199.02
	11/2/1999		45.67	196.87
	2/16/2000		37.65	204.89
	5/8/2000		37.72	204.82
	8/3/2000		40.21	202.33
	1/18/2001		37.26	205.28
	7/11/2001		39.40	203.14
	1/16/2002		40.73	201.81
	7/30/2002		38.68	203.86
	1/28/2003		32.55	209.99
	7/10/2003		24.95	217.59
	1/13/2004		37.42	205.12
	6/28/2004		38.91	203.63
	1/27/2005		39.10	203.44
	7/30/2005		38.88	203.66
	8/2/2006		36.02	206.52
	7/29/2007		35.67	206.87
	8/23/2008		36.81	205.73
	8/13/2009		40.13	202.41
	10/19/2010		39.12	203.42

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	5/10/2011		37.80	204.74
	8/31/2012		40.23	202.31
	9/18/2013		39.75	202.79
	8/14/2014		38.03	204.51
MW 20	2/12/1996	265.15	24.34	240.81
	2/14/1996		25.34	239.81
	2/15/1996		25.65	239.50
	5/2/1996		22.47	242.68
	6/5/1996		27.25	237.90
	7/1/1996		27.80	237.35
	7/31/1996		28.78	236.37
	11/8/1996		20.12	245.03
	2/5/1997		25.96	239.19
	5/12/1997		24.95	240.20
	8/5/1997		24.15	241.00
	11/12/1997		26.35	238.80
	2/4/1998		16.95	248.20
	5/5/1998		19.32	245.83
	8/5/1998		27.79	237.36
	11/3/1998		26.43	238.72
	2/10/1999		23.68	241.47
	5/12/1999		27.23	237.92
	8/5/1999		28.00	237.15
	11/2/1999		23.68	241.47
	2/16/2000		20.17	244.98
	5/8/2000		24.32	240.83
	8/3/2000		28.40	236.75
	1/18/2001		30.29	234.86
	7/11/2001		28.46	236.69
	1/16/2002		33.49	231.66
	7/30/2002		33.04	232.11
	1/28/2003		23.53	241.62
	7/10/2003		19.86	245.29
	1/13/2004		24.14	241.01
	6/28/2004		27.84	237.31
	1/27/2005		31.70	233.45
	7/30/2005		30.16	234.99
	8/2/2006		28.73	236.42
	7/29/2007		27.52	237.63
	8/23/2008		29.84	235.31
	8/13/2009		32.89	232.26

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	10/19/2010		25.72	239.43
	5/10/2011		32.16	232.99
	8/31/2012		28.42	236.73
	9/18/2013		32.99	232.16
	8/14/2014		30.52	234.63
MW 25*	2/12/1996	227.33	26.90	200.43
	2/14/1996		26.79	200.54
	2/15/1996		26.83	200.50
	2/23/1996		27.80	199.53
	2/28/1996		26.09	201.24
	5/2/1996		25.43	201.90
	6/5/1996		25.55	201.78
	7/1/1996		26.26	201.07
	7/31/1996		27.38	199.95
	11/8/1996		26.29	201.04
	2/5/1997		25.27	202.06
	5/13/1997		23.77	203.56
	8/5/1997		26.30	201.03
	11/12/1997		25.52	201.81
	2/4/1998		25.46	201.87
	5/5/1998		21.28	206.05
	8/5/1998		28.37	198.96
	11/3/1998		28.80	198.53
	2/10/1999		28.82	198.51
	5/12/1999		28.24	199.09
	8/5/1999		30.77	196.56
	11/2/1999		32.24	195.09
	2/16/2000		29.93	197.40
	5/8/2000		27.62	199.71
	8/3/2000		31.85	195.48
	1/18/2001		32.02	195.31
	7/11/2001		NM	NM
	1/16/2002		34.24	193.09
	7/31/2002		33.60	193.73
	1/28/2003		28.90	198.43
	7/10/2003		23.10	204.23
	1/13/2004		28.13	199.20
	6/28/2004		29.40	197.93
	1/27/2005		32.72	194.61
	7/30/2005		32.01	195.32
	8/2/2006		30.64	196.69

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	7/29/2007		32.92	194.41
	8/23/2008		31.57	195.76
	8/13/2009		33.64	193.69
	10/19/2010		29.02	198.31
	5/10/2011		32.72	194.61
	8/31/2012		31.87	195.46
	9/18/2013		33.74	193.59
	8/14/2014		30.61	196.72
UD-1	6/5/1996	251.50	81.78	175.51
	7/1/1996		43.30	213.99
	7/31/1996		83.70	173.59
	11/8/1996		79.02	178.27
	2/5/1997		81.92	175.37
	5/13/1997		82.36	174.93
	8/5/1997		38.02	219.27
	11/12/1997		41.01	216.28
	2/4/1998		33.76	223.53
	5/5/1998		35.31	221.98
	8/5/1998		78.03	179.26
	11/3/1998		74.20	183.09
	2/10/1999		74.22	183.07
	5/12/1999		52.29	205.00
	8/5/1999		75.77	181.52
	11/2/1999		73.43	183.86
	2/16/2000		41.18	216.11
	5/8/2000		72.93	184.36
	8/3/2000		76.60	180.69
	1/18/2001		78.24	179.05
	7/11/2001		43.02	214.27
	1/16/2002		76.13	181.16
	7/30/2002		44.08	213.21
	1/28/2003		37.99	219.30
	7/10/2003		66.21	191.08
	1/13/2004		65.60	191.69
	6/28/2004		80.12	177.17
	1/27/2005		68.52	188.77
	7/30/2005		75.25	182.04
	8/2/2006		73.80	183.49
	7/29/2007		62.80	194.49
	8/23/2008		77.79	179.50
	8/13/2009		75.53	181.76

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	10/19/2010		74.33	182.96
	5/10/2011		43.20	214.09
	8/31/2012		76.62	180.67
	9/18/2013		75.63	181.66
	8/14/2013		51.30	205.99
UD-2	6/5/1996	251.42	38.27	213.15
	7/1/1996		38.91	212.51
	7/31/1996		41.15	210.27
	11/8/1996		41.06	210.36
	2/5/1997		75.03	176.39
	5/13/1997		78.95	172.47
	8/5/1997		39.13	212.29
	11/12/1997		42.18	209.24
	2/4/1998		35.42	216.00
	5/5/1998		37.41	214.01
	8/5/1998		43.50	207.92
	11/3/1998		78.08	173.34
	2/10/1999		77.48	173.94
	5/12/1999		76.76	174.66
	8/5/1999		75.60	175.82
	11/2/1999		75.57	175.85
	2/16/2000		42.33	209.09
	5/8/2000		78.49	172.93
	8/3/2000		68.05	183.37
	1/18/2001		74.64	176.78
	7/11/2001		68.91	182.51
	1/16/2002		NM	NM
	7/30/2002		45.13	206.29
	1/28/2003		38.90	212.52
	7/10/2003		79.83	171.59
	1/13/2004		43.58	207.84
	6/28/2004		45.05	206.37
	1/27/2005		70.56	180.86
	7/30/2005		52.59	198.83
	8/2/2006		63.93	187.49
	7/29/2007		65.00	186.42
	8/23/2008		74.19	183.10
	8/13/2009		NM	NM
	10/19/2010		79.89	177.40
	5/10/2011		44.25	213.04
	8/31/2012		68.07	189.22

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	9/18/2013		NM	NM
	8/14/2013		65.61	191.68
UD-3	6/5/1996	249.66	86.42	163.24
	7/1/1996		44.52	205.14
	7/31/1996		86.69	162.97
	11/8/1996		65.81	183.85
	2/5/1997		40.12	209.54
	5/13/1997		38.95	210.71
	8/5/1997		39.16	210.50
	11/12/1997		42.42	207.24
	2/4/1998		35.32	214.34
	5/5/1998		84.67	164.99
	8/5/1998		83.50	166.16
	11/3/1998		78.82	170.84
	2/10/1999		88.09	161.57
	5/12/1999		73.42	176.24
	8/5/1999		72.37	177.29
	11/2/1999		79.06	170.60
	2/16/2000		42.50	207.16
	5/8/2000		68.86	180.80
	8/3/2000		75.15	174.51
	1/18/2001		68.59	181.07
	7/11/2001		85.70	163.96
	1/16/2002		76.01	173.65
	7/30/2002		84.95	164.71
	1/28/2003		38.49	211.17
	7/10/2003		85.24	164.42
	1/13/2004		44.80	204.86
	6/28/2004		68.91	180.75
	1/27/2005		68.10	181.56
	7/30/2005		50.81	198.85
	8/2/2006		63.00	186.66
	7/29/2007		51.64	198.02
	8/23/2008		68.14	181.52
	8/13/2009		75.41	174.25
	10/19/2010		70.26	179.40
	5/10/2011		84.07	165.59
	8/31/2012		75.17	174.49
	9/18/2013		75.51	174.15
	8/14/2014		43.05	206.61

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
UD-4	6/5/1996	239.07	92.60	146.47
	7/1/1996		35.82	203.25
	7/31/1996		92.37	146.70
	11/8/1996		83.45	155.62
	2/5/1997		93.40	145.67
	5/13/1997		94.10	144.97
	8/5/1997		30.77	208.30
	11/12/1997		34.04	205.03
	2/4/1998		26.70	212.37
	5/5/1998		88.35	150.72
	8/5/1998		39.07	200.00
	11/3/1998		62.72	176.35
	2/10/1999		64.14	174.93
	5/12/1999		87.15	151.92
	8/5/1999		78.81	160.26
	11/2/1999		77.21	161.86
	2/16/2000		33.86	205.21
	5/8/2000		85.88	153.19
	8/3/2000		88.62	150.45
	1/18/2001		34.04	205.03
	7/11/2001		36.41	202.66
	1/16/2002		71.33	167.74
	7/30/2002		54.50	184.57
	1/28/2003		29.87	209.20
	7/10/2003		17.20	221.87
	1/13/2004		72.30	166.77
	6/28/2004		70.15	168.92
	1/27/2005		70.60	168.47
	7/30/2005		56.35	182.72
	8/2/2006		76.50	162.57
	7/29/2007		69.15	169.92
	8/23/2008		33.59	205.48
	8/13/2009		70.73	168.34
	10/19/2010		87.28	151.79
	5/10/2011		53.62	185.45
	8/31/2012		88.64	150.43
	9/18/2013		70.83	168.24
	8/14/2014		65.93	173.14
UD-5	6/5/1996	239.02	28.01	211.01
	7/1/1996		32.35	206.67
	7/31/1996		35.00	204.02

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	11/8/1996		34.81	204.21
	2/5/1997		32.15	206.87
	5/13/1997		30.59	208.43
	8/5/1997		30.20	208.82
	11/12/1997		33.83	205.19
	2/4/1998		26.12	212.90
	5/5/1998		70.09	168.93
	8/5/1998		77.23	161.79
	11/3/1998		81.40	157.62
	2/10/1999		45.97	193.05
	5/12/1999		61.76	177.26
	8/5/1999		40.68	198.34
	11/2/1999		42.35	196.67
	2/16/2000		33.28	205.74
	5/8/2000		35.83	203.19
	8/3/2000		34.63	204.39
	1/18/2001		33.55	205.47
	7/11/2001		36.42	202.60
	1/16/2002		36.30	202.72
	7/30/2002		35.43	203.59
	1/28/2003		28.76	210.26
	7/10/2003		16.62	222.40
	1/13/2004		68.40	170.62
	6/28/2004		35.11	203.91
	1/27/2005		44.09	194.93
	7/30/2005		56.55	182.47
	8/2/2006		52.10	186.92
	7/29/2007		49.72	189.30
	8/23/2008		33.10	205.92
	8/13/2009		35.70	203.32
	10/19/2010		37.23	201.79
	5/10/2011		34.55	204.47
	8/31/2012		34.65	204.37
	9/18/2013		35.80	203.22
	8/14/2014		51.28	187.74
UD-6	6/5/1996	240.91	29.60	211.31
	7/1/1996		34.20	206.71
	7/31/1996		32.79	208.12
	11/8/1996		58.25	182.66
	2/5/1997		56.03	184.88
	5/13/1997		30.04	210.87

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	8/5/1997		31.05	209.86
	11/12/1997		34.55	206.36
	2/4/1998		26.56	214.35
	5/5/1998		57.83	183.08
	8/5/1998		64.94	175.97
	11/3/1998		69.51	171.40
	2/10/1999		68.86	172.05
	5/12/1999		70.25	170.66
	8/5/1999		68.63	172.28
	11/2/1999		72.92	167.99
	2/16/2000		33.52	207.39
	5/8/2000		63.83	177.08
	8/3/2000		34.90	206.01
	1/18/2001		34.21	206.70
	7/11/2001		DRY	DRY
	1/16/2002		37.95	202.96
	7/30/2002		35.95	204.96
	1/28/2003		29.59	211.32
	7/10/2003		19.36	221.55
	1/13/2004		36.34	204.57
	6/28/2004		36.92	203.99
	1/27/2005		49.12	191.79
	7/30/2005		42.50	198.41
	8/2/2006		38.92	201.99
	7/29/2007		52.70	188.21
	8/23/2008		33.76	207.15
	8/13/2009		37.35	203.56
	10/19/2010		65.23	175.68
	5/10/2011		35.07	205.84
	8/31/2012		34.92	205.99
	9/18/2013		37.45	203.46
	8/14/2014		42.53	198.38
UD-7	6/5/1996	255.56	33.67	221.89
	7/1/1996		26.35	229.21
	7/31/1996		24.78	230.78
	11/8/1996		16.21	239.35
	2/5/1997		80.73	174.83
	5/13/1997		60.14	195.42
	8/5/1997		19.81	235.75
	11/12/1997		22.68	232.88
	2/4/1998		11.64	243.92

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	5/5/1998		26.06	229.50
	8/5/1998		77.38	178.18
	11/3/1998		DRY	DRY
	2/10/1999		80.83	174.73
	5/12/1999		80.04	175.52
	8/5/1999		24.23	231.33
	11/2/1999		20.10	235.46
	2/16/2000		16.43	239.13
	5/8/2000		19.71	235.85
	8/3/2000		26.46	229.10
	1/18/2001		74.37	181.19
	7/11/2001		25.40	230.16
	1/16/2002		30.73	224.83
	7/30/2002		29.70	225.86
	1/28/2003		19.51	236.05
	7/10/2003		18.55	237.01
	1/13/2004		19.60	235.96
	6/28/2004		19.19	236.37
	1/27/2005		53.95	201.61
	7/30/2005		78.65	176.91
	8/2/2006		77.32	178.24
	7/29/2007		75.83	179.73
	8/23/2008		73.92	181.64
	8/13/2009		30.13	225.43
	10/19/2010		21.11	234.45
	5/10/2011		28.82	226.74
	8/31/2012		26.48	229.08
	9/18/2013		30.23	225.33
	8/14/2014		45.59	209.97
UD-8	6/5/1996	259.43	34.43	225.00
	7/1/1996		40.21	219.22
	7/31/1996		37.50	221.93
	11/8/1996		34.24	225.19
	5/13/1997		33.61	225.82
	8/5/1997		35.27	224.16
	11/12/1997		39.24	220.19
	2/4/1998		29.12	230.31
	5/5/1998		30.46	228.97
	8/5/1998		39.37	220.06
	11/3/1998		62.26	197.17
	2/10/1999		67.61	191.82

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	5/12/1999		73.95	185.48
	8/5/1999		42.15	217.28
	11/2/1999		41.58	217.85
	2/16/2000		35.51	223.92
	5/8/2000		37.34	222.09
	8/3/2000		40.00	219.43
	1/18/2001		40.87	218.56
	7/11/2001		40.72	218.71
	1/16/2002		44.89	214.54
	7/30/2002		43.17	216.26
	1/28/2003		34.85	224.58
	7/10/2003		18.75	240.68
	1/13/2004		70.90	188.53
	6/28/2004		66.30	193.13
	1/27/2005		70.50	188.93
	7/30/2005		80.60	178.83
	8/2/2006		85.30	174.13
	729/2007		73.88	185.55
	8/23/2008		40.42	219.01
	8/13/2009		44.29	215.14
	10/19/2010		38.74	220.69
	5/10/2011		42.29	217.14
	8/31/2012		40.02	219.41
	9/18/2013		44.39	215.04
	8/14/2014		71.25	188.18
Lower Dockery				
MW 16	2/14/1996	159.97	31.40	128.57
	2/15/1996		31.72	128.25
	2/23/1996		32.87	127.10
	5/2/1996		32.70	127.27
	6/5/1996		31.79	128.18
	7/1/1996		31.89	128.08
	7/31/1996		33.48	126.49
	11/8/1996		33.45	126.52
	2/5/1997		30.13	129.84
	5/13/1997		33.01	126.96
	8/5/1997		33.74	126.23
	11/12/1997		33.23	126.74
	2/4/1998		29.63	130.34
	5/5/1998		32.22	127.75

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	8/5/1998		33.88	126.09
	11/3/1998		33.43	126.54
	2/10/1999		32.76	127.21
	5/12/1999		33.35	126.62
	8/5/1999		34.12	125.85
	11/2/1999		34.56	125.41
	2/16/2000		30.21	129.76
	5/8/2000		N/A	N/A
	8/3/2000		N/A	N/A
	1/18/2001		Not Measured - Obstruction	
	7/11/2001		32.62	127.35
	1/16/2002		33.08	126.89
	7/31/2002		34.26	125.71
	1/28/2003		31.06	128.91
	7/10/2003		32.72	127.25
	1/13/2004		32.58	127.39
	6/28/2004		32.45	127.52
	10/21/2004		32.34	127.63
	1/27/2005		32.24	127.73
	5/4/2005		32.45	127.52
	7/30/2005		32.91	127.06
	7/25/2007		32.11	127.86
MW 24*	2/14/1996	132.99	5.75	127.24
	2/15/1996		5.95	127.04
	2/23/1996		6.90	126.09
	2/28/1996		6.15	126.84
	5/2/1996		6.56	126.43
	6/5/1996		6.35	126.64
	7/1/1996		6.75	126.24
	8/1/1996		6.91	126.08
	11/8/1996		7.06	125.93
	2/5/1997		5.44	127.55
	5/13/1997		6.65	126.34
	8/5/1997		7.61	125.38
	11/12/1997		6.86	126.13
	2/4/1998		4.98	128.01
	5/5/1998		6.37	126.62
	8/5/1998		7.76	125.23
	11/3/1998		7.35	125.64
	2/10/1999		6.59	126.40
	5/12/1999		7.50	125.49

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	8/5/1999		8.31	124.68
	11/2/1999		8.12	124.87
	2/16/2000		5.01	127.98
	5/8/2000		7.47	125.52
	8/3/2000		9.15	123.84
	1/18/2001		6.03	126.96
	7/11/2001		7.36	125.63
	1/16/2002		7.01	125.98
	7/31/2002		8.28	124.71
	1/28/2003		6.00	126.99
	7/10/2003		7.65	125.34
	1/13/2004		6.67	126.32
	6/28/2004		7.42	125.57
	10/21/2004		6.47	126.52
	1/27/2005		6.42	126.57
	5/4/2005		6.88	126.11
	7/30/2005		7.06	125.93
	7/29/2007		6.10	126.89
LD-1	6/5/1996	161.14	32.71	128.43
	7/1/1996		33.52	127.62
	7/31/1996		46.27	114.87
	11/8/1996		56.64	104.50
	2/5/1997		31.13	130.01
	5/13/1997		56.46	104.68
	8/5/1997		56.45	104.69
	11/12/1997		56.47	104.67
	2/4/1998		30.48	130.66
	5/5/1998		55.3	105.84
	8/5/1998		56.45	104.69
	11/3/1998		56.42	104.72
	2/10/1999		56.40	104.74
	5/12/1999		56.40	104.74
	8/5/1999		56.43	104.71
	11/2/1999		56.43	104.71
	2/16/2000		31.32	129.82
	5/8/2000		56.38	104.76
	8/3/2000		N/A	N/A
	1/18/2001		32.59	128.55
	7/11/2001		34.95	126.19
	1/16/2002		34.00	127.14
	7/30/2002		35.12	126.02

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	1/28/2003		32.09	129.05
	7/10/2003		31.99	129.15
	1/13/2004		33.40	127.74
	6/28/2004		Not Measured - System Suspended	
	11/20/2004		33.18	127.96
	1/27/2005		33.12	128.02
	5/4/2005		33.12	128.02
	7/30/2005		33.10	128.04
	7/29/2007		31.96	129.18
LD-2	6/5/1996	154.80	26.93	127.87
	7/1/1996		26.98	127.82
	7/31/1996		35.50	119.30
	11/8/1996		55.39	99.41
	2/5/1997		25.28	129.52
	5/13/1997		54.45	100.35
	8/5/1997		55.49	99.31
	11/12/1997		55.48	99.32
	2/4/1998		25.12	129.68
	5/5/1998		55.02	99.78
	8/5/1998		55.45	99.35
	11/3/1998		55.43	99.37
	2/10/1999		55.40	99.40
	5/12/1999		55.39	99.41
	8/5/1999		55.43	99.37
	11/2/1999		55.40	99.40
	2/16/2000		25.42	129.38
	5/8/2000		57.96	96.84
	8/3/2000		N/A	N/A
	1/18/2001		26.66	128.14
	7/11/2001		28.13	126.67
	1/16/2002		28.26	126.54
	7/30/2002		29.32	125.48
	1/28/2003		26.25	128.55
	7/10/2003		48.60	106.20
	1/13/2004		47.95	106.85
	6/28/2004		Not Measured - System Suspended	
	11/20/2004		27.35	127.45
	1/27/2005		27.31	127.49
	5/4/2005		27.20	127.60
	7/30/2005		27.23	127.57
	7/29/2007		26.39	128.41

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
LD-3	6/5/1996	150.02	22.64	127.38
	7/1/1996		22.70	127.32
	7/31/1996		27.75	122.27
	11/8/1996		35.18	114.84
	2/5/1997		20.97	129.05
	5/13/1997		34.81	115.21
	8/5/1997		36.92	113.10
	11/12/1997		44.76	105.26
	2/4/1998		20.64	129.38
	5/5/1998		37.44	112.58
	8/5/1998		39.58	110.44
	11/3/1998		38.87	111.15
	2/10/1999		40.25	109.77
	5/12/1999		42.65	107.37
	8/5/1999		43.35	106.67
	11/2/1999		50.98	99.04
	2/16/2000		20.93	129.09
	5/8/2000		50.64	99.38
	8/3/2000		51.00	99.02
	1/18/2001		22.37	127.65
	7/11/2001		23.56	126.46
	1/16/2002		23.85	126.17
	7/30/2002		24.55	125.47
	1/28/2003		22.05	127.97
	7/10/2003		41.79	108.23
	1/13/2004		24.86	125.16
	6/28/2004		Not Measured - System Suspended	
	11/20/2004		23.25	126.77
	1/27/2005		22.98	127.04
	5/4/2005		23.01	127.01
	7/30/2005		22.85	127.17
	7/29/2007		21.52	128.50
LD-4	6/5/1996	148.16	20.67	127.49
	7/1/1996		20.83	127.33
	7/31/1996		24.50	123.66
	11/8/1996		29.59	118.57
	2/5/1997		18.96	129.20
	5/13/1997		29.08	119.08
	8/5/1997		30.04	118.12
	11/12/1997		32.79	115.37

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	2/4/1998		18.50	129.66
	5/5/1998		29.36	118.80
	8/5/1998		31.11	117.05
	11/3/1998		30.63	117.53
	2/10/1999		31.09	117.07
	5/12/1999		31.92	116.24
	8/5/1999		32.77	115.39
	11/2/1999		36.77	111.39
	2/16/2000		19.37	128.79
	5/8/2000		35.31	112.85
	8/3/2000		36.74	111.42
	1/18/2001		20.40	127.76
	7/11/2001		21.93	126.23
	1/16/2002		21.93	126.23
	7/30/2002		22.78	125.38
	1/28/2003		20.07	128.09
	7/10/2003		45.44	102.72
	1/13/2004		28.60	119.56
	6/28/2004		Not Measured - System Suspended	
	11/20/2004		21.22	126.94
	1/27/2005		21.16	127.00
	5/4/2005		21.38	126.78
	7/30/2005		21.52	126.64
	7/29/2007		21.15	127.01
LD-5	6/5/1996	168.03	26.49	141.54
	7/1/1996		34.66	133.37
	7/31/1996		45.48	122.55
	11/8/1996		45.86	122.17
	2/5/1997		25.51	142.52
	5/13/1997		50.26	117.77
	8/5/1997		45.75	122.28
	11/12/1997		45.75	122.28
	2/4/1998		18.73	149.30
	5/5/1998		45.39	122.64
	8/5/1998		45.76	122.27
	11/3/1998		45.78	122.25
	2/10/1999		45.78	122.25
	5/12/1999		45.74	122.29
	8/5/1999		45.75	122.28
	11/2/1999		45.74	122.29
	2/16/2000		25.06	142.97

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	5/8/2000		45.42	122.61
	8/3/2000		45.77	122.26
	1/18/2001		29.85	138.18
	7/11/2001		26.65	141.38
	1/16/2002		34.35	133.68
	7/30/2002		29.72	138.31
	1/28/2003		29.48	138.55
	7/10/2003		42.30	125.73
	1/13/2004		35.95	132.08
	6/28/2004		Not Measured - System Suspended	
	11/20/2004		34.10	133.93
	1/27/2005		33.85	134.18
	5/4/2005		33.82	134.21
	7/30/2005		33.98	134.05
	7/29/2007		32.90	135.13
Macon Source Area				
MW 2	2/12/1996	231.39	37.20	194.19
	4/2/1996		38.33	193.06
	5/1/1996		38.78	192.61
	6/5/1996		38.96	192.43
	7/1/1996		40.52	190.87
	8/1/1996		43.21	188.18
	11/8/1996		41.32	190.07
	2/4/1997		38.83	192.56
	5/12/1997		34.71	196.68
	8/5/1997		35.36	196.03
	11/12/1997		41.54	189.85
	2/4/1998		37.43	193.96
	5/5/1998		32.78	198.61
	8/6/1998		35.93	195.46
	11/3/1998		38.19	193.20
	2/10/1999		38.80	192.59
	5/12/1999		39.99	191.40
	8/5/1999		40.49	190.90
	11/2/1999		42.33	189.06
	2/16/2000		37.84	193.55
	5/8/2000		38.14	193.25
	8/3/2000		45.80	185.59
	1/18/2001		41.19	190.20
	7/10/2001		39.74	191.65
	1/16/2002		43.16	188.23

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	7/30/2002		43.15	188.24
	1/28/2003		39.50	191.89
	7/10/2003		33.40	197.99
	1/13/2004		37.86	193.53
	6/28/2004		38.95	192.44
	1/27/2005		41.82	189.57
	7/30/2005		41.46	189.93
	8/2/2006		38.48	192.91
	7/29/2007		37.81	193.58
	8/23/2008		40.74	190.65
	8/13/2009		42.56	188.83
	10/19/2010		39.54	191.85
	5/10/2011		42.27	189.12
	8/31/2012		45.82	185.57
	9/18/2013		42.66	188.73
	8/14/2014		41.82	189.57
MW 2A	2/12/1996	230.83	37.45	193.38
	2/14/1996		37.56	193.27
	2/23/1996		39.78	191.05
	2/28/1996		39.00	191.83
	5/1/1996		38.68	192.15
	6/5/1996		39.18	191.65
	7/1/1996		40.37	190.46
	7/30/1996		43.57	187.26
	11/8/1996		40.91	189.92
	2/4/1997		38.70	192.13
	5/12/1997		35.06	195.77
	8/5/1997		35.73	195.10
	11/12/1997		41.25	189.58
	2/4/1998		37.22	193.61
	5/5/1998		32.66	198.17
	8/6/1998		35.76	195.07
	11/3/1998		37.90	192.93
	2/10/1999		38.45	192.38
	5/12/1999		39.71	191.12
	8/5/1999		40.39	190.44
	11/2/1999		42.07	188.76
	2/16/2000		38.05	192.78
	5/8/2000		38.35	192.48
	8/3/2000		42.39	188.44
	1/18/2001		41.44	189.39

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	7/10/2001		40.65	190.18
	1/16/2002		43.05	187.78
	7/30/2002		43.76	187.07
	1/28/2003		39.80	191.03
	7/10/2003		34.10	196.73
	1/13/2004		37.97	192.86
	6/28/2004		39.11	191.72
	1/27/2005		42.10	188.73
	7/30/2005		41.90	188.93
	8/2/2006		37.25	193.58
	7/29/2007		37.07	193.76
	8/23/2008		40.99	189.84
	8/13/2009		42.45	188.38
	10/19/2010		39.75	191.08
	5/10/2011		42.88	187.95
	8/31/2012		42.41	188.42
	9/18/2013		42.55	188.28
	8/14/2014		41.50	189.33
MW 3	2/12/1996	220.67	26.60	194.07
	5/1/1996		28.35	192.32
	6/5/1996		28.16	192.51
	7/1/1996		29.86	190.81
	8/1/1996		30.01	190.66
	11/8/1996		28.57	192.10
	2/4/1997		26.03	194.64
	5/12/1997		27.50	193.17
	8/5/1997		26.08	194.59
	11/12/1997		28.51	192.16
	2/4/1998		23.79	196.88
	5/5/1998		21.44	199.23
	8/6/1998		23.39	197.28
	11/3/1998		24.26	196.41
	2/10/1999		42.46	178.21
	5/12/1999		25.26	195.41
	8/5/1999		26.64	194.03
	11/2/1999		28.92	191.75
	2/16/2000		27.05	193.62
	5/8/2000		27.58	193.09
	8/3/2000		29.33	191.34
	1/18/2001		31.82	188.85
	7/11/2001		33.10	187.57

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	1/16/2002		35.98	184.69
	7/30/2002		37.30	183.37
	1/28/2003		33.34	187.33
	7/10/2003		25.35	195.32
	1/13/2004		28.80	191.87
	6/28/2004		30.05	190.62
	1/27/2005		31.20	189.47
	7/30/2005		31.15	189.52
	8/2/2006		29.83	190.84
	7/29/2007		29.48	191.19
	8/23/2008		31.37	189.30
	8/13/2009		35.38	185.29
	10/19/2010		28.98	191.69
	5/10/2011		36.42	184.25
	8/31/2012		29.35	191.32
	9/18/2013		35.48	185.19
	8/14/2014		34.80	185.87
MW 5	2/12/1996	234.51	37.62	196.89
	4/2/1996		37.94	196.57
	5/1/1996		38.02	196.49
	6/5/1996		38.00	196.51
	7/1/1996		39.69	194.82
	8/1/1996		39.50	195.01
	11/8/1996		37.17	197.34
	2/4/1997		35.29	199.22
	5/12/1997		33.60	200.91
	8/5/1997		36.05	198.46
	11/12/1997		38.44	196.07
	2/4/1998		32.77	201.74
	5/5/1998		28.49	206.02
	8/6/1998		31.72	202.79
	11/3/1998		33.02	201.49
	2/10/1999		33.61	200.90
	5/12/1999		34.64	199.87
	8/5/1999		36.71	197.80
	11/2/1999		38.98	195.53
	2/16/2000		37.11	197.40
	5/8/2000		38.27	196.24
	8/3/2000		39.92	194.59
	1/18/2001		43.30	191.21
	7/10/2001		44.69	189.82

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	1/16/2002		48.69	185.82
	7/30/2002		50.85	183.66
	1/28/2003		42.85	191.66
	7/10/2003		26.17	208.34
	1/13/2004		39.25	195.26
	6/28/2004		41.70	192.81
	1/27/2005		45.15	189.36
	7/31/2005		44.78	189.73
	8/2/2006		41.84	192.67
	7/29/2007		40.29	194.22
	8/23/2008		42.85	191.66
	8/13/2009		48.09	186.42
	10/19/2010		39.67	194.84
	5/10/2011		49.97	184.54
	8/31/2012		39.94	194.57
	9/18/2013		48.19	186.32
	8/14/2014		43.45	191.06
MW 6	2/12/1996	237.13	39.79	197.34
	4/2/1996		41.61	195.52
	5/1/1996		41.90	195.23
	6/5/1996		39.05	198.08
	7/1/1996		41.72	195.41
	7/30/1996		44.27	192.86
	11/8/1996		44.05	193.08
	2/4/1997		39.08	198.05
	5/12/1997		38.53	198.60
	8/5/1997		39.86	197.27
	11/12/1997		43.73	193.40
	2/4/1998		40.43	196.70
	5/5/1998		33.82	203.31
	8/6/1998		37.85	199.28
	11/3/1998		37.88	199.25
	2/10/1999		38.77	198.36
	5/12/1999		42.45	194.68
	8/5/1999		43.18	193.95
	11/2/1999		42.86	194.27
	2/16/2000		40.74	196.39
	5/8/2000		40.13	197.00
	8/3/2000		43.55	193.58
	1/18/2001		46.32	190.81
	7/10/2001		43.03	194.10

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	1/16/2002		44.88	192.25
	7/30/2002		47.30	189.83
	1/28/2003		42.81	194.32
	7/10/2003		35.56	201.57
	1/13/2004		41.12	196.01
	6/28/2004		43.16	193.97
	1/27/2005		46.17	190.96
	7/31/2005		45.21	191.92
	8/2/2006		42.59	194.54
	7/29/2007		42.18	194.95
	8/23/2008		45.87	191.26
	8/13/2009		44.28	192.85
	10/19/2010		41.53	195.60
	5/10/2011		46.42	190.71
	8/31/2012		43.57	193.56
	9/18/2013		44.38	192.75
	8/14/2014		43.97	193.16
MW 7	2/12/1996	228.41	35.57	192.84
	4/2/1996		36.23	192.18
	5/1/1996		36.63	191.78
	6/5/1996		37.05	191.36
	7/1/1996		38.32	190.09
	8/1/1996		38.26	190.15
	11/8/1996		38.69	189.72
	2/4/1997		36.60	191.81
	5/12/1997		33.34	195.07
	8/5/1997		33.96	194.45
	11/12/1997		39.10	189.31
	2/4/1998		34.80	193.61
	5/5/1998		30.41	198.00
	8/6/1998		33.66	194.75
	11/4/1998		35.84	192.57
	2/10/1999		36.31	192.10
	5/12/1999		37.67	190.74
	8/5/1999		38.34	190.07
	11/2/1999		40.04	188.37
	2/16/2000		36.30	192.11
	5/8/2000		37.01	191.40
	8/3/2000		46.40	182.01
	1/18/2001		39.82	188.59
	7/10/2001		44.33	184.08

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	1/16/2002		40.76	187.65
	7/30/2002		41.55	186.86
	1/28/2003		38.02	190.39
	7/10/2003		32.38	196.03
	1/13/2004		36.25	192.16
	6/28/2004		38.12	190.29
	1/27/2005		39.55	188.86
	7/31/2005		39.28	189.13
	8/2/2006		37.26	191.15
	7/29/2007		36.58	191.83
	8/23/2008		39.37	189.04
	8/13/2009		40.16	188.25
	10/19/2010		38.41	190.00
	5/10/2011		40.67	187.74
	8/31/2012		46.42	181.99
	9/18/2013		40.26	188.15
	8/14/2014		39.16	189.25
MW 8	2/12/1996	234.54	39.98	194.56
	4/2/1996		40.07	194.47
	5/1/1996		41.01	193.53
	6/5/1996		41.51	193.03
	7/1/1996		43.26	191.28
	8/1/1996		43.88	190.66
	2/4/1997		42.76	191.78
	5/12/1997		37.15	197.39
	8/5/1997		38.69	195.85
	11/12/1997		42.24	192.30
	2/4/1998		36.18	198.36
	5/5/1998		32.60	201.94
	8/6/1998		35.02	199.52
	11/3/1998		36.66	197.88
	2/10/1999		36.69	197.85
	5/12/1999		37.91	196.63
	8/5/1999		40.24	194.30
	11/2/1999		42.64	191.90
	2/16/2000		38.90	195.64
	5/8/2000		41.58	192.96
	8/3/2000		44.28	190.26
	1/18/2001		45.25	189.29
	7/10/2001		44.94	189.60
	1/16/2002		45.79	188.75

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	7/30/2002		47.15	187.39
	1/28/2003		43.17	191.37
	7/10/2003		38.05	196.49
	1/13/2004		42.41	192.13
	6/28/2004		44.51	190.03
	1/27/2005		45.36	189.18
	7/31/2005		45.08	189.46
	8/2/2006		42.72	191.82
	7/29/2007		41.26	193.28
	8/23/2008		44.80	189.74
	8/13/2009		45.19	189.35
	10/19/2010		42.98	191.56
	5/10/2011		46.27	188.27
	8/31/2012		44.30	190.24
	9/18/2013		45.29	189.25
	8/14/2014		43.61	190.93
MW 8A	2/12/1996	234.44	44.83	189.61
	4/2/1996		45.53	188.91
	5/1/1996		45.81	188.63
	6/5/1996		45.73	188.71
	7/1/1996		49.12	185.32
	8/1/1996		46.92	187.52
	2/4/1997		44.27	190.17
	5/12/1997		44.93	189.51
	8/5/1997		45.82	188.62
	11/12/1997		47.68	186.76
	2/4/1998		33.47	200.97
	5/5/1998		39.18	195.26
	8/5/1998		43.38	191.06
	11/3/1998		44.02	190.42
	2/10/1999		42.21	192.23
	5/12/1999		43.30	191.14
	8/5/1999		44.93	189.51
	11/2/1999		47.10	187.34
	2/16/2000		44.11	190.33
	5/8/2000		48.41	186.03
	8/3/2000		48.10	186.34
	1/18/2001		51.71	182.73
	7/10/2001		52.70	181.74
	1/16/2002		53.33	181.11
	7/30/2002		56.13	178.31

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	1/28/2003		48.96	185.48
	7/10/2003		42.65	191.79
	1/13/2004		42.70	191.74
	6/28/2004		44.85	189.59
	1/27/2005		53.24	181.20
	7/31/2005		50.37	184.07
	8/2/2006		48.21	186.23
	7/29/2007		47.80	186.64
	8/23/2008		51.26	183.18
	8/13/2009		52.73	181.71
	10/19/2010		49.81	184.63
	5/10/2011		55.25	179.19
	8/31/2012		48.12	186.32
	9/18/2013		52.83	181.61
	8/14/2014		49.59	184.85
MW 9*	2/12/1996	254.08	46.60	207.48
	2/14/1996		46.70	207.38
	2/15/1996		47.68	206.40
	2/23/1996		44.03	210.05
	2/28/1996		46.04	208.04
	5/1/1996		43.55	210.53
	6/5/1996		42.89	211.19
	7/1/1996		42.84	211.24
	7/30/1996		42.30	211.78
	11/8/1996		40.65	213.43
	2/4/1997		41.68	212.40
	5/12/1997		41.57	212.51
	8/5/1997		43.38	210.70
	11/12/1997		43.24	210.84
	2/4/1998		38.80	215.28
	5/5/1998		35.43	218.65
	8/6/1998		39.84	214.24
	11/3/1998		40.46	213.62
	2/10/1999		40.98	213.10
	5/12/1999		41.36	212.72
	8/5/1999		43.25	210.83
	11/2/1999		43.89	210.19
	2/16/2000		48.36	205.72
	5/8/2000		42.87	211.21
	8/3/2000		44.45	209.63
	1/18/2001		46.97	207.11

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	7/10/2001		47.85	206.23
	1/16/2002		DRY	DRY
	7/30/2002		DRY	DRY
	1/28/2003		48.93	205.15
	7/10/2003		40.77	213.31
	1/13/2004		42.66	211.42
	6/28/2004		44.45	209.63
	1/27/2005		46.56	207.52
	7/31/2005		45.80	208.28
	8/2/2006		44.02	210.06
	7/29/2007		43.57	210.51
	8/23/2008		46.52	207.56
	8/13/2009		46.98	207.10
	10/19/2010		44.27	209.81
	5/10/2011		43.65	210.43
	8/31/2012		44.47	209.61
	9/18/2013		43.28	210.80
	8/14/2014		45.50	208.58
MW 10	2/12/1996	265.51	41.03	224.48
	2/15/1996		40.88	224.63
	4/2/1996		36.98	228.53
	5/1/1996		35.76	229.75
	6/5/1996		35.90	229.61
	7/1/1996		35.96	229.55
	7/30/1996		35.98	229.53
	11/8/1996		33.31	232.20
	2/4/1997		34.13	231.38
	5/12/1997		33.64	231.87
	8/5/1997		36.87	228.64
	11/12/1997		38.41	227.10
	2/4/1998		27.34	238.17
	5/5/1998		26.19	239.32
	8/6/1998		33.07	232.44
	11/3/1998		33.78	231.73
	2/10/1999		33.85	231.66
	5/12/1999		34.86	230.65
	8/5/1999		38.09	227.42
	11/2/1999		40.02	225.49
	2/16/2000		37.17	228.34
	5/8/2000		37.95	227.56
	8/3/2000		39.65	225.86

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	1/18/2001		44.16	221.35
	7/10/2001		44.57	220.94
	1/16/2002		48.92	216.59
	7/30/2002		50.18	215.33
	1/28/2003		49.02	216.49
	7/10/2003		34.01	231.50
	1/13/2004		38.55	226.96
	6/28/2004		45.45	220.06
	1/27/2005		46.89	218.62
	7/31/2005		46.66	218.85
	8/2/2006		42.72	222.79
	7/29/2007		41.77	223.74
	8/23/2008		43.71	221.80
	8/13/2009		48.32	217.19
	10/19/2010		39.35	226.16
	5/10/2011		49.30	216.21
	8/31/2012		39.67	225.84
	9/18/2013		48.42	217.09
	8/14/2014		43.10	222.41
MW 11*	2/12/1996	271.92	30.72	241.20
	2/23/1996		31.00	240.92
	2/28/1996		30.00	241.92
	5/1/1996		30.31	241.61
	6/5/1996		31.41	240.51
	7/1/1996		32.92	239.00
	7/30/1996		34.42	237.50
	11/8/1996		27.60	244.32
	2/4/1997		27.26	244.66
	5/12/1997		25.72	246.20
	8/5/1997		30.63	241.29
	11/12/1997		34.08	237.84
	2/4/1998		19.95	251.97
	5/5/1998		20.88	251.04
	8/6/1998		29.66	242.26
	11/3/1998		29.72	242.20
	2/10/1999		26.02	245.90
	5/12/1999		30.16	241.76
	8/5/1999		35.27	236.65
	11/2/1999		34.61	237.31
	2/16/2000		27.39	244.53
	5/8/2000		30.73	241.19

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	8/3/2000		36.60	235.32
	1/18/2001		38.79	233.13
	7/10/2001		36.66	235.26
	1/16/2002		43.89	228.03
	7/30/2002		42.63	229.29
	1/28/2003		30.34	241.58
	7/10/2003		24.90	247.02
	1/13/2004		32.79	239.13
	6/28/2004		35.01	236.91
	1/27/2005		37.88	234.04
	7/31/2005		36.48	235.44
	8/2/2006		34.90	237.02
	7/29/2007		34.31	237.61
	8/23/2008		38.34	233.58
	8/13/2009		43.29	228.63
	10/19/2010		32.13	239.79
	5/10/2011		41.75	230.17
	8/31/2012		36.62	235.30
	9/18/2013		43.39	228.53
	8/14/2014		41.68	230.24
MW 11A	2/12/1996	270.28	30.22	240.06
	4/2/1996		27.05	243.23
	5/1/1996		28.05	242.23
	6/5/1996		30.62	239.66
	7/1/1996		32.15	238.13
	7/30/1996		33.11	237.17
	11/8/1996		27.15	243.13
	2/4/1997		26.94	243.34
	5/12/1997		25.35	244.93
	8/5/1997		29.60	240.68
	11/12/1997		33.25	237.03
	2/4/1998		19.90	250.38
	5/5/1998		20.35	249.93
	8/6/1998		29.12	241.16
	11/3/1998		28.98	241.30
	2/10/1999		25.82	244.46
	5/12/1999		29.68	240.60
	8/5/1999		34.48	235.80
	11/2/1999		33.72	236.56
	2/16/2000		27.30	242.98
	5/8/2000		30.13	240.15

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	8/3/2000		35.15	235.13
	1/18/2001		37.88	232.40
	7/10/2001		36.06	234.22
	1/16/2002		42.85	227.43
	7/30/2002		42.75	227.53
	1/28/2003		30.02	240.26
	7/10/2003		24.20	246.08
	1/13/2004		31.96	238.32
	6/28/2004		34.18	236.10
	1/27/2005		37.00	233.28
	7/31/2005		36.25	234.03
	8/2/2006		35.19	235.09
	7/29/2007		34.06	236.22
	8/23/2008		37.43	232.85
	8/13/2009		42.25	228.03
	10/19/2010		31.53	238.75
	5/10/2011		41.87	228.41
	8/31/2012		35.17	235.11
	9/18/2013		42.35	227.93
	8/14/2014		40.33	229.95
MW 19*	2/12/1996	236.89	38.49	198.40
	2/14/1996		38.82	198.07
	2/23/1996		40.90	195.99
	2/28/1996		40.50	196.39
	5/1/1996		38.44	198.45
	6/5/1996		37.91	198.98
	7/1/1996		39.23	197.66
	7/30/1996		39.65	197.24
	11/8/1996		37.10	199.79
	2/4/1997		35.33	201.56
	5/12/1997		33.37	203.52
	8/5/1997		36.45	200.44
	11/12/1997		38.38	198.51
	2/4/1998		33.02	203.87
	5/5/1998		27.69	209.20
	8/6/1998		31.30	205.59
	11/3/1998		32.47	204.42
	2/10/1999		33.08	203.81
	5/12/1999		34.26	202.63
	8/5/1999		36.45	200.44
	11/2/1999		39.06	197.83

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	2/16/2000		37.92	198.97
	5/8/2000		38.13	198.76
	8/3/2000		39.75	197.14
	1/18/2001		43.00	193.89
	7/10/2001		47.18	189.71
	1/16/2002		DRY	DRY
	7/30/2002		DRY	DRY
	1/28/2003		44.55	192.34
	7/10/2003		34.15	202.83
	1/13/2004		38.80	198.09
	6/28/2004		42.03	194.86
	1/27/2005		44.70	192.19
	7/31/2005		43.77	193.12
	8/2/2006		42.37	194.52
	7/29/2007		41.03	195.86
	8/23/2008		42.55	194.34
	8/13/2009		41.61	195.28
	10/19/2010		39.53	197.36
	5/10/2011		41.08	195.81
	8/31/2012		39.77	197.12
	9/18/2013		40.26	196.63
	8/14/2014		39.16	197.73
UMS-1	6/5/1996	238.96	44.15	194.81
	7/1/1996		44.70	194.26
	7/30/1996		58.60	180.36
	11/8/1996		58.88	180.08
	2/4/1997		39.85	199.11
	5/12/1997		40.80	198.16
	8/5/1997		49.19	189.77
	11/12/1997		54.30	184.66
	2/4/1998		40.65	198.31
	5/5/1998		43.38	195.58
	8/6/1998		50.18	188.78
	11/3/1998		38.80	200.16
	2/10/1999		39.54	199.42
	5/12/1999		56.66	182.30
	8/5/1999		58.78	180.18
	11/2/1999		43.79	195.17
	2/16/2000		41.71	197.25
	5/8/2000		40.27	198.69
	8/3/2000		44.60	194.36

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	1/18/2001		56.37	182.59
	7/10/2001		44.23	194.73
	1/16/2002		47.90	191.06
	7/30/2002		48.59	190.37
	1/28/2003		42.91	196.05
	7/10/2003		36.73	202.23
	1/13/2004		49.00	189.96
	6/28/2004		49.40	189.56
	1/27/2005		53.95	185.01
	7/31/2005		53.44	185.52
	8/2/2006		54.29	184.67
	7/29/2007		53.56	185.40
	8/23/2008		55.92	183.04
	8/13/2009		47.30	191.66
	10/19/2010		41.67	197.29
	5/10/2011		47.71	191.25
	8/31/2012		44.62	194.34
	9/18/2013		47.40	191.56
	8/4/2014		42.60	196.36
UMS-2	6/5/1996	236.31	64.75	171.56
	7/1/1996		57.60	178.71
	7/30/1996		64.58	171.73
	11/8/1996		65.40	170.91
	2/4/1997		62.15	174.16
	5/12/1997		37.95	198.36
	8/5/1997		38.56	197.75
	11/12/1997		63.59	172.72
	2/4/1998		56.75	179.56
	5/5/1998		49.99	186.32
	8/6/1998		53.66	182.65
	11/3/1998		57.28	179.03
	2/10/1999		62.24	174.07
	5/12/1999		64.71	171.60
	8/5/1999		65.15	171.16
	11/2/1999		65.07	171.24
	2/16/2000		41.08	195.23
	5/8/2000		40.72	195.59
	8/3/2000		64.83	171.48
	1/18/2001		44.22	192.09
	7/10/2001		43.36	192.95
	1/16/2002		46.18	190.13

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	7/30/2002		46.76	189.55
	1/28/2003		42.80	193.51
	7/10/2003		37.01	199.30
	1/13/2004		40.58	195.73
	6/28/2004		41.55	194.76
	1/27/2005		40.03	196.28
	7/31/2005		40.12	196.19
	8/2/2006		43.26	193.05
	7/29/2007		41.49	194.82
	8/23/2008		43.77	192.54
	8/13/2009		45.58	190.73
	10/19/2010		42.12	194.19
	5/10/2011		45.88	190.43
	8/31/2012		64.85	171.46
	9/18/2013		45.68	190.63
	8/14/2014		46.82	189.49
UMS-3	6/5/1996	235.75	43.46	192.29
	7/1/1996		72.78	162.97
	7/30/1996		72.87	162.88
	11/8/1996		73.13	162.62
	2/4/1997		42.68	193.07
	5/12/1997		71.80	163.95
	8/5/1997		72.88	162.87
	11/12/1997		62.98	172.77
	2/4/1998		72.50	163.25
	5/5/1998		38.95	196.80
	8/6/1998		49.98	185.77
	11/3/1998		67.65	168.10
	2/10/1999		39.13	196.62
	5/12/1999		39.95	195.80
	8/5/1999		42.06	193.69
	11/2/1999		44.31	191.44
	2/16/2000		41.75	194.00
	5/8/2000		68.22	167.53
	8/3/2000		46.22	189.53
	1/18/2001		71.61	164.14
	7/10/2001		58.56	177.19
	1/16/2002		69.10	166.65
	7/30/2002		71.73	164.02
	1/28/2003		47.02	188.73
	7/10/2003		40.00	195.75

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	1/13/2004		60.90	174.85
	6/28/2004		56.50	179.25
	1/27/2005		64.12	171.63
	7/31/2005		54.59	181.16
	8/2/2006		64.88	170.87
	7/29/2007		47.01	188.74
	8/23/2008		71.16	164.59
	8/13/2009		68.50	167.25
	10/19/2010		69.62	166.13
	5/10/2011		70.85	164.90
	8/31/2012		46.24	189.51
	9/18/2013		68.60	167.15
	8/14/2014		52.30	183.45
UMS-4	6/5/1996	236.53	75.66	160.87
	7/1/1996		76.58	159.95
	7/30/1996		76.98	159.55
	11/8/1996		76.44	160.09
	2/4/1997		36.60	199.93
	5/12/1997		33.55	202.98
	8/5/1997		77.68	158.85
	11/12/1997		38.40	198.13
	2/4/1998		77.88	158.65
	5/5/1998		58.44	178.09
	8/6/1998		78.04	158.49
	11/3/1998		78.05	158.48
	2/10/1999		78.04	158.49
	5/12/1999		53.82	182.71
	8/5/1999		36.70	199.83
	11/2/1999		49.62	186.91
	2/16/2000		46.41	190.12
	5/8/2000		39.50	197.03
	8/3/2000		39.30	197.23
	1/18/2001		42.02	194.51
	7/10/2001		43.34	193.19
	1/16/2002		46.19	190.34
	7/30/2002		48.00	188.53
	1/28/2003		45.38	191.15
	7/10/2003		34.70	201.83
	1/13/2004		63.30	173.23
	6/28/2004		65.10	171.43
	1/27/2005		57.90	178.63

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	7/31/2005		63.25	178.63
	8/2/2006		76.01	178.63
	7/29/2007		52.83	178.63
	8/23/2008		41.57	178.63
	8/13/2009		45.59	178.63
	10/19/2010		40.90	178.63
	5/10/2011		47.12	178.63
	8/31/2012		39.32	178.63
	9/18/2013		45.69	178.63
	8/14/2014		45.81	178.63
UMS-5	6/5/1996	257.62	82.55	175.07
	7/1/1996		81.00	176.62
	7/30/1996		82.87	174.75
	11/8/1996		79.92	177.70
	2/4/1997		82.95	174.67
	5/12/1997		41.49	216.13
	8/5/1997		82.62	175.00
	11/12/1997		81.89	175.73
	2/4/1998		81.93	175.69
	5/5/1998		39.22	218.40
	8/6/1998		57.57	200.05
	11/3/1998		76.82	180.80
	2/10/1999		80.76	176.86
	5/12/1999		82.12	175.50
	8/5/1999		83.24	174.38
	11/2/1999		82.85	174.77
	2/16/2000		82.45	175.17
	5/8/2000		81.19	176.43
	8/3/2000		83.55	174.07
	1/18/2001		77.49	180.13
	7/10/2001		66.30	191.32
	1/16/2002		79.00	178.62
	7/30/2002		76.65	180.97
	1/28/2003		50.29	207.33
	7/10/2003		77.51	180.11
	1/13/2004		43.45	214.17
	6/28/2004		45.61	212.01
	1/27/2005		80.20	177.42
	7/31/2005		68.60	189.02
	8/2/2006		80.30	177.32
	7/29/2007		72.92	184.70

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	8/23/2008		77.04	180.58
	8/13/2009		78.40	179.22
	10/19/2010		82.59	175.03
	5/10/2011		75.77	181.85
	8/31/2012		83.57	174.05
	9/18/2013		78.50	179.12
	8/14/2014		77.90	179.72
Upper Macon				
MW 21*	2/14/1996	155.52	14.52	141.00
	2/23/1996		15.60	139.92
	2/28/1996		14.65	140.87
	5/2/1996		14.38	141.14
	6/5/1996		15.47	140.05
	7/30/1996		7.02	148.50
	11/7/1996		14.62	140.90
	2/4/1997		14.48	141.04
	5/12/1997		14.44	141.08
	8/5/1997		15.25	140.27
	11/12/1997		15.79	139.73
	2/4/1998		13.98	141.54
	5/5/1998		12.27	143.25
	8/6/1998		14.33	141.19
	11/3/1998		14.80	140.72
	2/10/1999		13.74	141.78
	5/12/1999		14.44	141.08
	8/5/1999		16.71	138.81
	11/2/1999		15.85	139.67
	2/16/2000		14.25	141.27
	5/8/2000		15.14	140.38
	8/3/2000		17.85	137.67
	1/18/2001		17.75	137.77
	7/10/2001		17.86	137.66
	1/16/2002		19.95	135.57
	7/31/2002		19.20	136.32
	1/28/2003		15.18	140.34
	7/10/2003		14.57	140.95
	1/13/2004		16.08	139.44
	6/28/2004		17.21	138.31
	1/27/2005		18.99	136.53
	7/31/2005		18.33	137.19

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	8/19/2006		17.00	138.52
	7/29/2007		16.21	139.31
	8/23/2008		17.30	138.22
	8/13/2009		19.35	136.17
	10/19/2010		16.54	138.98
	5/10/2011		18.32	137.20
	8/31/2012		17.87	137.65
	9/18/2013		19.45	136.07
	8/14/2014		14.90	140.62
MW 23*	2/14/1996	155.54	4.45	151.09
	2/23/1996		5.73	149.81
	2/28/1996		4.07	151.47
	5/3/1996		5.19	150.35
	6/5/1996		5.59	149.95
	7/1/1996		7.56	147.98
	7/30/1996		7.72	147.82
	11/6/1996		6.19	149.35
	2/4/1997		4.99	150.55
	5/12/1997		5.88	149.66
	8/5/1997		5.32	150.22
	11/12/1997		6.47	149.07
	2/4/1998		3.67	151.87
	5/5/1998		4.11	151.43
	8/6/1998		6.45	149.09
	11/3/1998		6.47	149.07
	2/10/1999		6.55	148.99
	5/12/1999		7.06	148.48
	8/5/1999		8.46	147.08
	11/2/1999		8.98	146.56
	2/16/2000		6.13	149.41
	5/8/2000		6.78	148.76
	8/3/2000		9.03	146.51
	1/18/2001		24.62	130.92
	7/10/2001		8.77	146.77
	1/16/2002		10.47	145.07
	7/30/2002		10.15	145.39
	1/28/2003		4.77	150.77
	7/10/2003		4.65	150.89
	1/13/2004		6.69	148.85
	6/28/2004		7.62	147.92
	1/27/2005		8.60	146.94

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	7/31/2005		7.35	148.19
	8/19/2006		6.83	148.71
	7/29/2007		6.06	149.48
	8/23/2008		24.17	131.37
	8/13/2009		9.87	145.67
	10/19/2010		8.18	147.36
	5/10/2011		9.27	146.27
	8/31/2012		9.05	146.49
	9/18/2013		9.97	145.57
UM-1	6/5/1996	183.68	37.01	146.67
	7/1/1996		36.47	147.21
	7/30/1996		41.10	142.58
	11/8/1996		39.44	144.24
	2/4/1997		39.36	144.32
	5/12/1997		40.46	143.22
	8/5/1997		42.03	141.65
	11/12/1997		30.86	152.82
	2/4/1998		45.99	137.69
	5/5/1998		44.93	138.75
	8/6/1998		46.32	137.36
	11/3/1998		36.00	147.68
	2/10/1999		46.23	137.45
	5/12/1999		46.16	137.52
	8/5/1999		47.19	136.49
	11/2/1999		48.01	135.67
	2/16/2000		37.34	146.34
	5/8/2000		40.45	143.23
	8/3/2000		Dry	Dry
	1/18/2001		31.40	152.28
	7/10/2001		45.00	138.68
	1/16/2002		35.87	147.81
	7/30/2002		34.75	148.93
	1/28/2003		47.88	135.80
	7/10/2003		30.00	153.68
	1/13/2004		39.95	143.73
	6/28/2004		31.47	152.21
	1/27/2005		52.60	131.08
	7/31/2005		55.08	128.60
	8/2/2006		45.30	138.38
	7/29/2007		40.47	143.21
	8/23/2008		30.95	152.73

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	8/13/2009		35.27	148.41
	10/19/2010		41.85	141.83
	5/10/2011		33.87	149.81
	8/31/2012		35.94	147.74
	9/18/2013		35.37	148.31
	8/14/2014		38.66	145.02
UM-2	6/5/1996	194.13	43.02	151.11
	7/1/1996		47.95	146.18
	7/30/1996		47.33	146.80
	11/8/1996		45.41	148.72
	2/4/1997		45.51	148.62
	5/12/1997		46.24	147.89
	8/5/1997		45.72	148.41
	11/12/1997		40.01	154.12
	2/4/1998		49.57	144.56
	5/5/1998		48.14	145.99
	8/6/1998		50.59	143.54
	11/3/1998		39.20	154.93
	2/10/1999		48.11	146.02
	5/12/1999		51.91	142.22
	8/5/1999		52.68	141.45
	11/2/1999		55.91	138.22
	2/16/2000		44.84	149.29
	5/8/2000		46.30	147.83
	8/3/2000		30.10	164.03
	1/18/2001		40.50	153.63
	7/10/2001		51.53	142.60
	1/16/2002		46.02	148.11
	7/30/2002		44.46	149.67
	1/28/2003		60.01	134.12
	7/10/2003		37.03	157.10
	1/13/2004		46.35	147.78
	6/28/2004		40.05	154.08
	1/27/2005		51.20	142.93
	7/31/2005		53.18	140.95
	8/2/2006		49.22	144.91
	7/29/2007		50.19	143.94
	8/23/2008		40.05	154.08
	8/13/2009		45.42	148.71
	10/19/2010		47.70	146.43
	5/10/2011		43.58	150.55

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	8/31/2012		30.12	164.01
	9/18/2013		45.52	148.61
	8/14/2014		43.75	150.38
UM-3	6/5/1996	180.35	32.17	148.18
	7/1/1996		32.18	148.17
	7/30/1996		32.36	147.99
	11/8/1996		32.31	148.04
	2/4/1997		32.27	148.08
	5/12/1997		32.25	148.10
	8/5/1997		32.27	148.08
	11/12/1997		19.81	160.54
	2/4/1998		72.50	107.85
	5/5/1998		32.24	148.11
	8/6/1998		32.25	148.10
	11/3/1998		19.69	160.66
	2/10/1999		32.21	148.14
	5/12/1999		32.21	148.14
	8/5/1999		32.24	148.11
	11/2/1999		32.24	148.11
	2/16/2000		32.22	148.13
	5/8/2000		32.05	148.30
	8/3/2000		32.09	148.26
	1/18/2001		18.39	161.96
	7/10/2001		32.33	148.02
	1/16/2002		22.75	157.60
	7/30/2002		21.16	159.19
	1/28/2003		33.77	146.58
	7/10/2003		32.48	147.87
	1/13/2004		19.40	160.95
	6/28/2004		20.06	160.29
	1/27/2005		24.50	155.85
	7/31/2005		25.24	155.11
	8/2/2006		32.08	148.27
	7/29/2007		30.86	149.49
	8/23/2008		17.94	162.41
	8/13/2009		22.15	158.20
	10/19/2010		33.45	146.90
	5/10/2011		20.28	160.07
	8/31/2012		32.11	148.24
	9/18/2013		22.25	158.10
	8/14/2014		25.15	155.20

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
UM-4	6/5/1996	171.91	21.85	150.06
	7/1/1996		21.10	150.81
	7/30/1996		27.55	144.36
	11/8/1996		24.52	147.39
	2/4/1997		25.62	146.29
	5/12/1997		31.98	139.93
	8/5/1997		30.54	141.37
	11/12/1997		9.41	162.50
	2/4/1998		38.19	133.72
	5/5/1998		45.78	126.13
	8/6/1998		41.81	130.10
	11/3/1998		9.30	162.61
	2/10/1999		47.70	124.21
	5/12/1999		49.25	122.66
	8/5/1999		40.13	131.78
	11/2/1999		42.80	129.11
	2/16/2000		13.00	158.91
	5/8/2000		18.23	153.68
	8/3/2000		29.10	142.81
	1/18/2001		8.18	163.73
	7/10/2001		22.53	149.38
	1/16/2002		12.40	159.51
	7/30/2002		11.08	160.83
	1/28/2003		6.99	164.92
	7/10/2003		7.45	164.46
	1/13/2004		12.83	159.08
	6/28/2004		10.12	161.79
	1/27/2005		25.10	146.81
	7/31/2005		19.56	152.35
	8/2/2006		15.03	156.88
	7/29/2007		20.74	151.17
	8/23/2008		7.73	164.18
	8/13/2009		11.80	160.11
	10/19/2010		19.63	152.28
	5/10/2011		10.20	161.71
	8/31/2012		29.12	142.79
	9/18/2013		11.90	160.01
	8/14/2014		12.56	159.35
UM-5	6/5/1996	168.32	11.77	156.55
	7/1/1996		12.13	156.19

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	7/30/1996		16.92	151.40
	11/8/1996		13.85	154.47
	2/4/1997		14.92	153.40
	5/12/1997		16.15	152.17
	8/5/1997		13.65	154.67
	11/12/1997		6.09	162.23
	2/4/1998		14.03	154.29
	5/5/1998		17.38	150.94
	8/6/1998		17.57	150.75
	11/3/1998		6.09	162.23
	2/10/1999		16.71	151.61
	5/12/1999		19.45	148.87
	8/5/1999		19.21	149.11
	11/2/1999		26.98	141.34
	2/16/2000		7.51	160.81
	5/8/2000		11.03	157.29
	8/3/2000		20.30	148.02
	1/18/2001		4.74	163.58
	7/10/2001		16.72	151.60
	1/16/2002		9.18	159.14
	7/30/2002		7.44	160.88
	1/28/2003		3.45	164.87
	7/10/2003		3.85	164.47
	1/13/2004		8.00	160.32
	6/28/2004		6.49	161.83
	1/27/2005		13.75	154.57
	7/31/2005		14.50	153.82
	8/2/2006		5.92	162.40
	7/29/2007		12.76	155.56
	8/23/2008		4.29	164.03
	8/13/2009		8.58	159.74
	10/19/2010		12.43	155.89
	5/10/2011		6.56	161.76
	8/31/2012		20.32	148.00
	9/18/2013		8.68	159.64
	8/14/2014		15.20	153.12
UM-6	6/5/1996	173.05	11.72	161.33
	7/1/1996		13.23	159.82
	7/30/1996		17.58	155.47
	11/8/1996		14.40	158.65
	2/4/1997		14.79	158.26

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	5/12/1997		15.26	157.79
	8/5/1997		14.45	158.60
	11/12/1997		9.84	163.21
	2/4/1998		10.51	162.54
	5/5/1998		11.30	161.75
	8/6/1998		16.40	156.65
	11/3/1998		9.64	163.41
	2/10/1999		16.32	156.73
	5/12/1999		18.90	154.15
	8/5/1999		18.90	154.15
	11/2/1999		21.22	151.83
	2/16/2000		10.08	162.97
	5/8/2000		13.17	159.88
	8/3/2000		20.90	152.15
	1/18/2001		8.62	164.43
	7/10/2001		18.75	154.30
	1/16/2002		12.65	160.40
	7/30/2002		11.14	161.91
	1/28/2003		7.59	165.46
	7/10/2003		8.80	164.25
	1/13/2004		10.25	162.80
	6/28/2004		12.71	160.34
	1/27/2005		12.95	160.10
	7/31/2005		13.05	160.00
	8/2/2006		10.98	162.07
	7/29/2007		18.50	154.55
	8/23/2008		8.17	164.88
	8/13/2009		12.05	161.00
	10/19/2010		14.57	158.48
	5/10/2011		10.26	162.79
	8/31/2012		20.92	152.13
	9/18/2013		12.15	160.90
	8/14/2014		12.67	160.38
UM-7	6/5/1996	187.29	54.45	132.84
	7/1/1996		54.58	132.71
	7/30/1996		54.59	132.70
	11/8/1996		55.00	132.29
	2/4/1997		54.73	132.56
	5/12/1997		55.34	131.95
	8/5/1997		54.78	132.51
	11/12/1997		19.96	167.33

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	2/4/1998		54.75	132.54
	5/5/1998		54.73	132.56
	8/6/1998		54.98	132.31
	11/3/1998		22.57	164.72
	2/10/1999		54.72	132.57
	5/12/1999		54.53	132.76
	8/5/1999		54.79	132.50
	11/2/1999		54.75	132.54
	2/16/2000		48.91	138.38
	5/8/2000		19.30	167.99
	8/3/2000		54.57	132.72
	1/18/2001		19.32	167.97
	7/10/2001		54.87	132.42
	1/16/2002		21.79	165.50
	7/30/2002		21.02	166.27
	1/28/2003		17.76	169.53
	7/10/2003		17.72	169.57
	1/13/2004		45.25	142.04
	6/28/2004		20.40	166.89
	1/27/2005		48.12	139.17
	7/31/2005		48.60	138.69
	8/2/2006		33.92	153.37
	7/29/2007		48.40	138.89
	8/23/2008		18.87	168.42
	8/13/2009		21.19	166.10
	10/19/2010		20.70	166.59
	5/10/2011		20.14	167.15
	8/31/2012		54.59	132.70
	9/18/2013		21.29	166.00
	8/14/2014		22.86	164.43
Lower Macon				
MW 4	2/14/1996	184.21	40.79	143.42
	4/2/1996		46.08	138.13
	5/2/1996		45.72	138.49
	6/5/1996		43.29	140.92
	7/1/1996		42.09	142.12
	7/30/1996		45.71	138.50
	11/8/1996		46.35	137.86
	2/4/1997		40.86	143.35
	5/12/1997		44.15	140.06

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	8/5/1997		44.08	140.13
	11/12/1997		41.79	142.42
	2/4/1998		42.77	141.44
	5/5/1998		40.60	143.61
	8/6/1998		41.77	142.44
	11/3/1998		40.12	144.09
	2/10/1999		43.22	140.99
	5/12/1999		43.16	141.05
	8/5/1999		26.48	157.73
	11/2/1999		42.56	141.65
	2/16/2000		39.70	144.51
	5/8/2000		40.35	143.86
	8/3/2000		41.15	143.06
	1/18/2001		42.24	141.97
	7/10/2001		43.17	141.04
	1/16/2002		45.26	138.95
	7/30/2002		44.73	139.48
	1/28/2003		34.52	149.69
	7/10/2003		39.22	144.99
	1/13/2004		39.35	144.86
	6/28/2004		40.75	143.46
	1/27/2005		40.56	143.65
	7/31/2005		40.23	143.98
	8/2/2006		39.11	145.10
	7/29/2007		38.58	145.63
	8/23/2008		41.79	142.42
	8/13/2009		44.66	139.55
	10/19/2010		41.75	142.46
	5/10/2011		43.85	140.36
MW 12	2/14/1996	171.98	24.87	147.11
	4/2/1996		26.18	145.80
	5/2/1996		26.09	145.89
	6/5/1996		25.97	146.01
	7/1/1996		27.37	144.61
	7/30/1996		27.55	144.43
	11/8/1996		26.24	145.74
	2/4/1997		24.38	147.60
	5/12/1997		25.27	146.71
	8/5/1997		25.66	146.32
	11/12/1997		25.74	146.24
	2/4/1998		22.58	149.40

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	5/5/1998		23.02	148.96
	8/6/1998		24.35	147.63
	11/3/1998		24.30	147.68
	2/10/1999		24.12	147.86
	5/12/1999		24.87	147.11
	8/5/1999		26.48	145.50
	11/2/1999		23.31	148.67
	2/16/2000		22.54	149.44
	5/8/2000		23.38	148.60
	8/3/2000		25.05	146.93
	1/18/2001		27.96	144.02
	7/10/2001		26.31	145.67
	1/16/2002		30.82	141.16
	7/30/2002		30.26	141.72
	1/28/2003		25.04	146.94
	7/10/2003		30.95	141.03
	1/13/2004		24.86	147.12
	6/28/2004		26.28	145.70
	1/27/2005		25.10	146.88
	7/31/2005		25.61	146.37
	8/2/2006		25.62	146.36
	7/29/2007		25.46	146.52
	8/23/2008		27.51	144.47
	8/13/2009		30.22	141.76
	10/19/2010		24.78	147.20
	5/10/2011		29.38	142.60
MW 13*	2/14/1996	188.67	49.22	139.45
	2/23/1996		50.20	138.47
	2/28/1996		49.25	139.42
	4/2/1996		50.85	137.82
	5/2/1996		51.38	137.29
	6/5/1996		49.88	138.79
	7/1/1996		50.55	138.12
	7/30/1996		51.59	137.08
	11/8/1996		52.15	136.52
	2/4/1997		49.40	139.27
	5/12/1997		49.42	139.25
	8/5/1997		49.32	139.35
	11/11/1997		50.29	138.38
	2/4/1998		48.25	140.42
	5/5/1998		42.56	146.11

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	8/6/1998		45.70	142.97
	11/3/1998		47.33	141.34
	2/10/1999		49.14	139.53
	5/12/1999		49.11	139.56
	8/5/1999		50.19	138.48
	11/2/1999		49.41	139.26
	2/16/2000		48.23	140.44
	5/8/2000		48.05	140.62
	8/3/2000		50.40	138.27
	1/18/2001		50.52	138.15
	7/10/2001		DRY	DRY
	1/16/2002		DRY	
	7/30/2002		53.10	135.57
	1/28/2003		48.61	140.06
	7/10/2003		40.01	148.66
	1/13/2004		46.50	142.17
	6/28/2004		48.46	140.21
	1/27/2005		49.71	138.96
	7/31/2005		49.55	139.12
	8/19/2006		48.20	140.47
	7/29/2007		47.49	141.18
	8/23/2008		50.07	138.60
	8/13/2009		48.46	140.21
	10/19/2010		49.45	139.22
	5/10/2011		52.22	136.45
MW 14	2/14/1996	177.34	34.24	143.10
	4/2/1996		dry	dry
	5/2/1996		dry	dry
	6/5/1996		35.19	142.15
	7/1/1996		dry	dry
	7/30/1996		dry	dry
	11/8/1996		dry	dry
	2/4/1997		34.63	142.71
	5/12/1997		dry	dry
	8/5/1997		dry	dry
	11/11/1997		dry	dry
	2/4/1998		34.09	143.25
	5/5/1998		33.80	143.54
	8/6/1998		35.22	142.12
	11/3/1998		34.76	142.58
	2/10/1999		dry	dry

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	5/12/1999		dry	dry
	8/5/1999		dry	dry
	11/2/1999		33.50	143.84
	2/16/2000		32.32	145.02
	5/8/2000		32.18	145.16
	8/3/2000		41.70	135.64
	1/18/2001		dry	dry
	7/10/2001		35.27	142.07
	1/16/2002		DRY	DRY
	7/30/2002		35.65	141.69
	1/28/2003		34.16	143.18
	7/10/2003		30.03	147.32
	1/13/2004		33.96	143.39
	6/28/2004		34.53	142.82
	1/27/2005		34.54	142.80
	7/31/2005		34.15	143.19
	8/2/2006		32.94	144.40
	7/29/2007		32.08	145.26
	8/23/2008		33.52	143.82
	8/13/2009		30.22	147.12
	10/19/2010		33.58	143.76
	5/10/2011		34.77	142.57
MW 14R	2/14/1996	175.95	34.50	141.45
	4/2/1996		38.81	137.14
	5/2/1996		39.27	136.68
	6/5/1996		38.85	137.10
	7/1/1996		37.98	137.97
	7/30/1996		40.03	135.92
	11/8/1996		40.39	135.56
	2/4/1997		35.60	140.35
	5/12/1997		38.74	137.21
	8/5/1997		37.61	138.34
	11/11/1997		37.09	138.86
	2/4/1998		35.81	140.14
	5/5/1998		35.65	140.30
	8/6/1998		37.32	138.63
	11/3/1998		36.18	139.77
	2/10/1999		37.37	138.58
	5/12/1999		37.50	138.45
	8/5/1999		37.67	138.28
	11/2/1999		34.22	141.73

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	2/16/2000		32.68	143.27
	5/8/2000		32.18	143.77
	8/3/2000		Dry	Dry
	1/18/2001		36.75	139.20
	7/10/2001		35.80	140.15
	1/16/2002		39.44	136.51
	7/30/2002		38.74	137.21
	1/28/2003		34.48	141.47
	7/10/2003		30.07	145.88
	1/13/2004		34.57	141.38
	6/28/2004		35.02	140.93
	1/27/2005		35.03	140.92
	7/31/2005		34.82	141.13
	8/2/2006		33.79	142.16
	7/29/2007		32.30	143.65
	8/23/2008		36.30	139.65
	8/13/2009		38.84	137.11
	10/19/2010		33.58	142.37
	5/10/2011		37.86	138.09
MW 22*	2/14/1996	128.25	5.73	122.52
	2/23/1996		6.76	121.49
	2/28/1996		5.59	122.66
	5/2/1996		6.87	121.38
	6/5/1996		7.05	121.20
	7/1/1996		6.78	121.47
	7/30/1996		2.31	125.94
	11/8/1996		6.96	121.29
	2/4/1997		6.03	122.22
	5/12/1997		6.80	121.45
	8/5/1997		6.56	121.69
	11/11/1997		6.24	122.01
	2/4/1998		5.64	122.61
	5/5/1998		5.92	122.33
	8/6/1998		6.46	121.79
	11/3/1998		6.10	122.15
	2/10/1999		6.24	122.01
	5/12/1999		6.59	121.66
	8/5/1999		6.94	121.31
	11/2/1999		5.98	122.27
	2/16/2000		5.42	122.83
	5/8/2000		6.12	122.13

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	8/3/2000		7.25	121.00
	1/18/2001		9.48	118.77
	7/10/2001		NM	NM
	1/16/2002		6.80	121.45
	7/30/2002		7.42	120.83
	1/28/2003		6.97	121.28
	7/10/2003		5.36	122.89
	1/13/2004		6.05	122.20
	6/28/2004		6.61	121.64
	1/27/2005		6.52	121.73
	7/31/2005		6.58	121.67
	8/2/2006		6.00	122.25
	7/29/2007		5.12	123.13
	8/23/2008		9.03	119.22
	8/13/2009		6.20	122.05
	10/19/2010		7.52	120.73
	5/10/2011		6.54	121.71
LM-1	6/5/1996	175.68	69.79	105.89
	7/1/1996		38.61	137.07
	7/30/1996		69.78	105.90
	11/8/1996		70.04	105.64
	2/4/1997		36.12	139.56
	5/12/1997		68.90	106.78
	8/5/1997		69.94	105.74
	11/11/1997		38.31	137.37
	2/4/1998		69.65	106.03
	5/5/1998		69.87	105.81
	8/6/1998		69.86	105.82
	11/3/1998		37.57	138.11
	2/10/1999		61.89	113.79
	5/12/1999		57.69	117.99
	8/5/1999		60.57	115.11
	11/2/1999		35.04	140.64
	2/16/2000		33.00	142.68
	5/8/2000		35.72	139.96
	8/3/2000		36.30	139.38
	1/18/2001		37.41	138.27
	7/10/2001		37.73	137.95
	1/16/2002		40.41	135.27
	7/30/2002		39.40	136.28
	1/28/2003		62.00	113.68

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	7/10/2003		30.79	144.89
	1/13/2004		36.70	138.98
	6/28/2004		35.79	139.89
	1/27/2005		36.95	138.73
	7/31/2005		35.99	139.69
	8/2/2006		50.23	125.45
	7/29/2007		40.92	134.76
	8/23/2008		36.96	138.72
	8/13/2009		39.81	135.87
	10/19/2010		37.12	138.56
	5/10/2011		38.52	137.16
LM-2	6/5/1996	157.20	62.06	95.14
	7/1/1996		25.08	132.12
	7/30/1996		58.36	98.84
	11/8/1996		62.16	95.04
	2/4/1997		25.98	131.22
	5/12/1997		63.50	93.70
	8/5/1997		56.96	100.24
	11/11/1997		26.86	130.34
	2/4/1998		53.33	103.87
	5/5/1998		43.23	113.97
	8/6/1998		40.85	116.35
	11/3/1998		26.30	130.90
	2/10/1999		37.86	119.34
	5/12/1999		33.61	123.59
	8/5/1999		30.68	126.52
	11/2/1999		24.80	132.40
	2/16/2000		23.85	133.35
	5/8/2000		24.30	132.90
	8/3/2000		31.00	126.20
	1/18/2001		26.37	130.83
	7/10/2001		28.78	128.42
	1/16/2002		28.72	128.48
	7/30/2002		28.08	129.12
	1/28/2003		24.99	132.21
	7/10/2003		21.22	135.98
	1/13/2004		25.60	131.60
	6/28/2004		25.40	131.80
	1/27/2005		26.84	130.36
	7/31/2005		25.80	131.40
	8/2/2006		26.89	130.31

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	7/29/2007		27.18	130.02
	8/23/2008		25.92	131.28
	8/13/2009		28.12	129.08
	10/19/2010		25.70	131.50
	5/10/2011		27.20	130.00
LM-3	6/5/1996	157.09	61.16	95.93
	7/1/1996		27.78	129.31
	7/30/1996		49.40	107.69
	11/8/1996		67.24	89.85
	2/4/1997		27.11	129.98
	5/12/1997		57.52	99.57
	8/5/1997		42.42	114.67
	11/11/1997		27.78	129.31
	2/4/1998		43.27	113.82
	5/5/1998		33.48	123.61
	8/6/1998		33.48	123.61
	11/3/1998		26.75	130.34
	2/10/1999		34.02	123.07
	5/12/1999		33.78	123.31
	8/5/1999		34.08	123.01
	11/2/1999		26.24	130.85
	2/16/2000		24.50	132.59
	5/8/2000		25.44	131.65
	8/3/2000		36.07	121.02
	1/18/2001		26.93	130.16
	7/10/2001		36.42	120.67
	1/16/2002		29.00	128.09
	7/30/2002		28.80	128.29
	1/28/2003		25.78	131.31
	7/10/2003		22.49	134.60
	1/13/2004		32.25	124.84
	6/28/2004		33.15	123.94
	1/27/2005		34.09	123.00
	7/31/2005		26.85	130.24
	8/2/2006		33.23	123.86
	7/29/2007		30.73	126.36
	8/23/2008		26.48	130.61
	8/13/2009		28.40	128.69
	10/19/2010		26.84	130.25
	5/10/2011		27.92	129.17

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
LM-4	6/5/1996	166.84	68.60	98.24
	7/1/1996		37.72	129.12
	7/30/1996		56.91	109.93
	11/8/1996		74.86	91.98
	2/4/1997		36.82	130.02
	5/12/1997		67.80	99.04
	8/5/1997		55.14	111.70
	11/11/1997		37.29	129.55
	2/4/1998		56.01	110.83
	5/5/1998		46.03	120.81
	8/6/1998		45.00	121.84
	11/3/1998		36.29	130.55
	2/10/1999		46.40	120.44
	5/12/1999		46.35	120.49
	8/5/1999		47.23	119.61
	11/2/1999		36.75	130.09
	2/16/2000		35.35	131.49
	5/8/2000		40.15	126.69
	8/3/2000		49.50	117.34
	1/18/2001		37.51	129.33
	7/10/2001		7.20	159.64
	1/16/2002		39.41	127.43
	7/30/2002		39.87	126.97
	1/28/2003		31.25	135.59
	7/10/2003		21.35	145.49
	1/13/2004		35.60	131.24
	6/28/2004		35.60	131.24
	1/27/2005		37.66	129.18
	7/31/2005		35.47	131.37
	8/2/2006		50.28	116.56
	7/29/2007		47.90	118.94
	8/23/2008		37.06	129.78
	8/13/2009		38.81	128.03
	10/19/2010		41.55	125.29
	5/10/2011		38.99	127.85
LM-5	6/5/1996	186.59	66.50	120.09
	7/1/1996		43.91	142.68
	7/30/1996		66.80	119.79
	11/8/1996		66.86	119.73
	2/4/1997		42.85	143.74
	5/12/1997		66.90	119.69

Table 11
Groundwater Elevation Data
Macon/Dockery Site
Richmond County, North Carolina

Well Number	Date	Surveyed Casing Elevation (ft)	Depth to Groundwater (ft)	Corrected Groundwater Elevation (ft)
	8/5/1997		66.84	119.75
	11/11/1997		43.84	142.75
	2/4/1998		66.88	119.71
	5/5/1998		67.99	118.60
	8/6/1998		68.04	118.55
	11/3/1998		42.10	144.49
	2/10/1999		68.12	118.47
	5/12/1999		67.73	118.86
	8/5/1999		68.12	118.47
	11/2/1999		42.45	144.14
	2/16/2000		41.35	145.24
	5/8/2000		75.54	111.05
	8/3/2000		54.57	132.02
	1/18/2001		44.20	142.39
	7/10/2001		45.00	141.59
	1/16/2002		47.00	139.59
	7/30/2002		46.35	140.24
	1/28/2003		42.32	144.27
	7/10/2003		37.06	149.53
	1/13/2004		41.45	145.14
	6/28/2004		42.08	144.51
	1/27/2005		42.00	144.59
	7/31/2005		43.85	142.74
	8/2/2006		43.45	143.14
	7/29/2007		44.00	142.59
	8/23/2008		43.75	142.84
	8/13/2009		46.40	140.19
	10/19/2010		76.94	109.65
	5/10/2011		45.47	141.12

Table 12
Groundwater Quality Summary
Macon/Dockery Site
Richmond County, North Carolina
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Well ID	Date	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Carbon Tetrachloride (ug/L)	Methyl Ethyl Ketone (ug/L)	Trichloroethene (ug/L)	Tetrachloroethene (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	Chloroform (ug/L)	Methylene Chloride (ug/L)	Bromodichloromethane (ug/L)	Dibromochloromethane (ug/L)	Tribromomethane (ug/L)	1,2-Dichloroethane (ug/L)	1,2-Dichloropropane (ug/L)	Cis-1,3-Dichloropropene (ug/L)	Trans-1,3-Dichloropropene (ug/L)	Naphthalene (ug/L)	Acetone (ug/L)	Carbon Disulfide (ug/L)	Vinyl Acetate (ug/L)	Methyl Isobutyl Ketone (ug/L)	Styrene (ug/L)
Upper Dockery																											
MW 15	3/13/1996	<25	33	280	<25	<50	<25	120	<25	<25	<25	24	<75	<250	<10	170	<5.0	190	<40	<20	19	<0.30	<2.0	3.4	<10	7
	5/2/1996	<25	35	630	<25	<50	30	170	<25	<25	<25	<25	<75	<250	<10	180	<5.0	200	<40	<20	34	<0.30	<2.0	4.8	<10	<5.0
	7/31/1996	<25	<25	610	<25	<50	<25	210	<25	<25	<25	37	<75	<250	63	140	<5.0	180	<40	<20	35	<0.30	990	8.8047	NA	86
(DUP 2)	7/31/1996	<25	<25	670	<25	<50	<25	180	<25	<25	<25	33	<75	<250	<10	160	<5.0	180	<40	<20	31	<0.30	1070	4.8	NA	65
	11/5/1996	<25	39	1000	<25	<50	<25	200	<25	<25	<25	<25	<75	<250	<10	140	<5.0	200	<40	<5.0	<20	<0.30	430	3.5	NA	9
(TUP)	11/7/1996	<50	<50	1400	<50	<100	<50	400	<50	<50	<50	<50	<150	<500	<10	140	<5.0	170	<40	<20	<20	<0.30	340	2.3	NA	NA
	2/5/1997	<25	62	1200	<25	<50	<25	280	<25	<25	<25	<25	<75	260	31	160	<5.0	270	<40	<20	200	34	1100	3.8	NA	30
	5/12/1997	<100	<100	400	<100	<200	<100	180	<100	<100	<100	<100	<300	<1000	<10	130	<5.0	230	<40	<20	92	6.3	260	1.6	NA	11
(DUP 2)	5/12/1997	<100	<100	540	<100	<200	<100	160	<100	<100	<100	<100	<300	<1000	11	110	<5.0	170	<40	<20	89	6	360	1.4	NA	10
	8/5/1997	<10	17	310	<10	<20	<20	180	<20	<10	<10	<10	<30	<100	16	130	<5.0	120	<40	<20	67	3.6	310	1.3	NA	16
(DUPLICATE 1	11/12/1997	<5	11	220	<5.0	<10	<5.0	70	<5.0	<5.0	<5.0	<5.0	<15	<50	70	130	<5.0	234	<40	<20	62.7	7.5	567	3.8	NA	77
	11/12/1997	<10	<10	46	<10	<20	<10	11	<10	<10	<10	<10	<30	<100	46.8	120	<5.0	255	<40	<20	30	2.7	591	1.6	NA	110
(DUP 1)	2/5/1998	<25	<25	280	<25	<50	<25	70	<25	<25	<25	420	<75	3680	<10	140	<5.0	100	<40	<20	28	8.66	180	0.73	NA	10
	2/5/1998	<10	<10	310	<10	<20	<10	70	<10	<10	<10	60	<30	<100	<10	130	<5.0	120	<40	<20	22	8.25	140	0.66	NA	6
	5/6/1998	<50	66	1300	<50	<100	<50	440	<50	<50	<50	360	<150	1500	11	150	<5.0	400	<40	<20	50	8.49	83	0.63	NA	22
(DUP 1)	5/6/1998	<50	56	1300	<50	<100	<50	710	<50	<50	<50	350	<150	2300	<10	140	<5.0	400	<40	<20	50	8.49	83	0.63	NA	22
	8/6/1998	<100	<100	2100	<100	<200	<100	750	<100	<100	<100	<100	<300	<1000	35	150	<5.0	230	<40	<20	37	2.4	720	4.4	NA	31
	11/3/1998	<50	<50	1300	<50	<100	<50	380	<50	<50	<50	<50	<150	<500	75	150	<5.0	170	<40	<20	46	1.9	960	3.2	NA	100
	2/11/1999	<25	<25	610	<25	<130	<25	180	<25	<25	<25	<25	<75	<250	71	220	<5.0	200	<40	<20	63	0.93	540	2.5	NA	220
	5/13/1999	<25	<25	770	<25	<50	<25	150	<25	<25	<25	<25	<75	<250	87	280	<5.0	210	<40	<20	56	0.46	300	2.9	NA	280
	8/5/1999	<25	<25	390	<25	<50	<25	110	<25	<25	<25	<25	<75	<250	150	250	<5.0	310	41	38	86	<0.30	200	2.0	NA	780
	11/3/1999	<10	<10	220	<10	<20	<10	70	<10	<10	<10	33	<30	<100	65	210	<5.0	230	<40	<20	30	0.37	55	NA	NA	450
	2/17/2000	<10	<10	90	<10	<20	<10	22	<10	<10	<10	<10	<30	<100	15	140	<5.0	91	<40	<20	<20	<0.30	33	0.52	NA	48
	5/9/2000	<10	<10	220	<10	<20	<10	45	<10	<10	<10	<10	<30	<10	66	180	<5.0	200	<40	<20	50	<0.30	81	0.64	NA	300
	8/3/2000	<5.0	5.1	130	<5.0	<10	<5.0	34	<5.0	<5.0	<5.0	<5.0	<15	<50	52	180	<5.0	220	<40	<20	42	<0.30	69	0.67	NA	190
	11/6/2001	<5.0	5.8	140	<5.0	<10	<5.0	27	<5.0	<5.0	<5.0	<5.0	<15	<50	71	170	<5.0	190	<40	<20	64	0.61	150	0.96	NA	91
(DUP 1)	1/16/2001	<5.0	6.5	120	<5.0	<10	<5.0	26	<5.0	<5.0	<5.0	<5.0	<15	<50	76	160	<5.0	190	<40	<20	77	0.97	140	1.20	NA	100
	7/11/2001	<5.0	11.0	160	<5.0	<10	<5.0	38	<5.0	<5.0	<5.0	<5.0	<15	<50	72	180	<5.0	210	<40	<20	47	<0.30	89	1.20	NA	170
(DUP 1)	7/11/2001	<5.0	9.9	130	<5.0	<10	<5.0	29	<5.0	<5.0	<5.0	<5.0	<15	<50	68	220	<5.0	200	<40	<20	62	<0.30	130	1.10	NA	200
(DUP) 1	1/16/2002	<5.0	<5.0	82	<5.0	<10	<5.0	10	<5.0	<5.0	<5.0	<5.0	<15	<50	36	170	<5.0	120	<40	<20	55	<0.30	63	0.66	NA	57
	1/16/2002	<5.0	<5.0	160	<5.0	<10	<5.0	19	<5.0	<5.0	<5.0	<5.0	<15	<50	51	190	<5.0	190	<40	<20	36	<0.30	92	0.54	NA	410
	7/31/2002	<5.0	5.1	180	<5.0	<10	<5.0	14	<5.0	<5.0	<5.0	<5.0	<15	<50	82	340	<5.0	200	<40	<10	64	<0.30	62	0.88	NA	450
(DUP 1)	7/31/2002	<5.0	<5.0	97	<5.0	<10	<5.0	14	<5.0	<5.0	<5.0	<5.0	<15	<50	75	330	<5.0	240	<40	<20	59	<0.30	37	0.89	NA	330
Remediation Performance Base		1	3520	7	70	5	1	200	2.4	1	1	1000	400	3500	50	1000	1	70	100	50	5000	5	15	1.1	154	

NA = Not Analyzed DL = Dilution DUP = duplicate

Table 12
Groundwater Quality Summary
Macon/Dockery Site
Richmond County, North Carolina
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Well ID	Date	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Chloroform (ug/L)	cis-1,2-Dichloroethene (ug/L)	Methylene Chloride (ug/L)	Tetrachloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	Trichloroethene (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	Toluene (ug/L)	Total Xylenes (ug/L)	Acetone (ug/L)	Carbon Disulfide (ug/L)	Methyl Ethyl Ketone (ug/L)	Methyl Isobutyl Ketone (ug/L)	Styrene (ug/L)	Vinyl Acetate (ug/L)	Total VOCs (ug/L)	Chromium (ug/L)	Lead (ug/L)	Manganese (ug/L)	Naphthalene (ug/L)	Acenaphthene (ug/L)
Upper Dockery																										
MW 15	1/28/2003	<1.0	1.4	12	<1.0	<2.0	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	20	120	<5.0	66	<40	<50	33	<0.30	41.9	0.51	NA	27
(DUP 1)	1/28/2003	<1.0	1.4	16	<1.0	<2.0	<1.0	1.9	<1.0	<1.0	<1.0	<1.0	<2.0	<10	22	120	<5.0	66	<40	<50	36	<0.30	46.1	0.49	NA	42
	7/19/2005	<5.0	51.0	440	<5.0	14	<2.0	87	<2.0	<5.0	9.2	<5.0	<15	<50	<10	130	<1.0	330	<40	<50	28	<0.30	12	0.37	NA	<5.0
	1/13/2004	<25	<25	620	<50	<120	<25	61	<25	<25	<25	<25	<75	620	25	110	<1.0	99	<40	<50	24	<0.30	27	0.78	NA	65
(DUP 1)	1/13/2004	<25	<25	310	<40	<100	<20	46	<20	<20	<20	<20	<60	500	18	110	<1.0	57	<40	<50	21	<0.30	30	0.52	NA	74
	6/28/2004	<20	<20	280	<40	<100	<20	37	<20	<20	<20	<20	<40	<500	130	190	2.4	230	<40	<50	67	<0.30	720	1.20	NA	1100
(DUP 1)	6/28/2004	<20	<20	170	<40	<100	<25	33	<20	<20	<20	<20	<40	<500	170	220	2.6	280	<40	52	66	<0.30	694	0.97	NA	720
	1/28/2005	<1.0	3.9	92	<1.0	<2.0	<1.0	9.0	1.0	<1.0	<1.0	<1.0	<3.0	<10	100	250	NA	280	NA	NA	99	<0.30	31	0.56	NA	280
	7/20/2005	<1.0	5.1	30	<1.0	<2.0	<1.0	9.2	<1.0	<1.0	<1.0	<1.0	<3.0	<10	60	100	NA	87	NA	NA	38	<0.30	79	0.35	NA	70
	8/2/2006	<1.0	6.7	60	<1.0	<2.0	<1.0	7.2	1.0	<1.0	<1.0	<1.0	<3.0	<10	82	180	0.61	65	20	<5.0	46	<0.30	300	0.72	NA	72
	7/20/2007	<1.0	9.4	33	<1.0	<3.0	<1.0	3.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	110	140	1.1	120	27	16	33	<0.30	170	0.60	NA	210
	8/25/2008	<1.0	7.2	70	1.4	<2.0	<1.0	8.4	1.0	<1.0	<1.0	<1.0	<3.0	<10	160	230	2.1	200	36	24	48	<0.30	300	0.66	NA	440
	8/25/2009	<1.0	7.3	70	1.4	<2.0	<1.0	8.6	1.0	<1.0	<1.0	<1.0	<3.0	<10	160	250	3.1	200	36	24	48	<0.30	300	0.66	NA	440
	8/13/2010	<1.0	4.7	45	1.1	<2.0	<1.0	5.7	1.0	<1.0	<1.0	<1.0	<3.0	<10	96	170	1.6	97	27	18	28	<0.5	78	0.31	NA	120
	10/19/2010	<1.0	<1.0	11	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	7.7	140	<0.20	52	6.3	<10	<20	<0.5	<1.5	<0.20	NA	35
	8/15/2011	<1.0	<1.0	18	<1.0	<2.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<3.0	<10	48	200	<0.20	110	11	<10	<20	<0.5	21	<0.20	NA	65
	9/4/2012	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	170	210	0.52	160	60	22	39	<0.5	5.2	<0.20	NA	160
	9/12/2013	<1.0	13	160	<1.0	<2.0	<1.0	36	1.5	<1.0	<1.0	<1.0	<3.0	<10	5.3	110	<0.20	120	14	<10	<20	<0.5	4.2	0.30	NA	62
	8/14/2014	<1.0	120	1500	<1.0	<2.0	<1.0	190	12	<1.0	<1.0	<1.0	<3.0	<10	11	170	0.46	1100	51	<10	37	<0.5	14	<0.20	NA	15
Remediation Performance Base		1	3500	7	70	5	1	200	2.8	1	1	1000	600	3500	50	1000	1	50	100	50	7000	5	15	1.1	154	

NA = Not Analyzed DL = Deleted DUP = Replicate

Table 12
Groundwater Quality Summary
Macon/Dockery Site
Richmond County, North Carolina
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Well	Date	Chloroform (ug/L)	1,1-Dichloroethane (ug/L)	Chloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Methylene chloride (ug/L)	Vinyl chloride (ug/L)	1,1,2-Trichloroethane (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Tetrachloroethene (ug/L)	Ethylbenzene (ug/L)	Chlorobenzene (ug/L)	Xylenes, Total (ug/L)	Naphthalene (ug/L)	Isopropylbenzene (ug/L)	1,2,4-Trimethylbenzene (ug/L)	1,3,5-Trimethylbenzene (ug/L)	Acetone (ug/L)	Carbon disulfide (ug/L)	2-Butanone (ug/L)	Methyl tert-butyl ether (ug/L)	Styrene (ug/L)	Dichlorodifluoromethane (ug/L)	Acetonitrile (ug/L)
Upper Dockery																											
MW 23	2/15/1996	<1.0	4.2	<1.0	<1.0	<5.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	<10	160	<5.0	180	<40	<20	22	<0.20	<5.0	NA	<10	44
	5/2/1996	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	10	150	<5.0	61	<40	<20	28	<0.20	<5.0	NA	<10	16
	7/31/1996	<1.0	<1.0	1.2	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	<10	130	<5.0	57	<40	<20	<20	<0.20	<5.0	NA	NA	23
	11/7/1996	<1.0	<1.0	1.6	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	<10	140	<5.0	110	<40	<20	30	<0.20	<5.0	NA	NA	45
	2/5/1997	<1.0	<1.0	1.1	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	<10	130	<5.0	77	<40	<20	37	<0.20	<5.0	NA	NA	<5.0
	5/13/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	13	110	<5.0	22	<40	<20	<20	<0.20	<5.0	NA	NA	15
	8/5/1997	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	29	190	<5.0	140	<40	<20	42	<0.20	4.3	NA	NA	159
	11/12/1997	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	<10	114	<5.0	26	<40	<20	22.5	<1	<5.0	NA	NA	12
	2/9/1998	<1.0	<1.0	1.1	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	<10	130	<5.0	40	<40	<20	<20	<0.20	<5.0	NA	NA	33
	5/7/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	<10	120	<5.0	16	<40	<20	<20	<0.20	<5.0	NA	NA	11
	8/6/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	<10	120	<5.0	13	<40	<20	<20	<0.20	9.6	NA	NA	5
	11/3/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	11	170	<5.0	86	<40	<20	<20	<0.20	<5.0	NA	NA	57
	2/11/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	<10	150	<5.0	56	<40	<20	<20	<0.20	7.0	NA	NA	39
	5/12/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	<10	130	<5.0	33	<40	<20	<20	<0.20	<5.0	NA	NA	17
	8/5/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	<10	160	<5.0	60	<40	<20	20	<0.20	3.7	NA	NA	42
	11/2/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	<10	120	<5.0	15	<40	<20	<20	<0.20	<5.0	<0.20	NA	10
	2/17/2000	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	1000	560	<5.0	830	360	70	140	0.40	33.0	<0.20	NA	910
	5/9/2000	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	1900	600	<5.0	300	320	60	300	<0.20	19.0	NA	NA	1100
	8/3/2000	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	40	300	<5.0	170	<40	<20	41	<0.20	4.4	NA	NA	150
	1/10/2001	<1.0	<1.0	2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	10	170	<5.0	100	<40	<20	32	0.66	<5.0	NA	NA	21
	7/20/2001	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	<10	120	<5.0	13	<40	<20	22	<0.20	<5.0	NA	NA	6
	1/16/2002	<1.0	<1.0	<2.0	<1.0	<5.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	<10	130	<5.0	6.7	<40	<20	<20	<0.20	<5.0	NA	NA	<5.0
	7/31/2002	<1.0	<1.0	1.10	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	<10	130	<5.0	30	<40	<20	<20	<0.20	<5.0	NA	NA	7
	1/28/2003	<1.0	<1.0	1.10	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	<10	120	<5.0	13	<40	<20	<20	<0.20	<5.0	NA	NA	<5.0
	7/30/2003	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<5.0	<10	<10	120	<1.0	<5.0	<40	<20	<20	<0.20	<5.0	NA	NA	<5.0
	1/13/2004	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	<10	170	<1.0	<2.0	<40	<20	<20	<20	<0.20	<5.0	NA	NA	8
	6/28/2004	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	<10	120	<1.0	5.7	<40	<20	<20	<20	<0.20	<5.0	NA	NA	5
	1/27/2005	<1.0	<1.0	1.2	<2.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	42	120	NA	37	NA	NA	27	<0.20	<5.0	NA	NA	30
	7/29/2005	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	10	100	NA	6.9	NA	NA	<20	<0.20	<1.5	NA	NA	7.0
	2/1/2006	<1.0	<1.0	1.6	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	26	130	<0.50	35	18	<5.0	31	<0.20	2.1	NA	NA	7.0
	7/28/2007	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	5.6	120	<0.70	<5.0	6.6	<7.0	<20	<0.20	<1.5	NA	NA	<5.0
	2/25/2008	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	40	140	<0.50	<5.0	25	<7.0	25	0.68	2.4	NA	NA	14.0
	8/13/2009	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	29	310	<0.50	270	18	12	30	<0.5	2.7	NA	NA	96
	10/19/2010	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	5.9	150	<0.70	83	6.4	<10	27	<0.5	<1.5	NA	NA	380
	9/19/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	<5.0	140	<0.70	36	<7.0	<10	99	<0.70	<1.5	NA	NA	38
	9/4/2012	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	6.8	140	<0.50	13	6.7	<10	<20	<0.10	<1.5	NA	NA	16
	9/19/2013	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	<5.0	170	<0.70	16	6.8	<10	70	<0.70	<1.5	NA	NA	<5.0
	9/14/2014	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10	<5.0	130	<0.50	11	5.3	<10	31	<0.50	2.4	NA	NA	2.0
Remediation Performance Base		1	3700	7	70	5	1	200	2.8	1	1	1000	400	3500	50	1000	1	50	100	70	5000	5	15	1.1	154		

NA = Not Analyzed DL = Dilution DUP - duplicate

Table 12
Groundwater Quality Summary
Macon/Dockery Site
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Well ID	Date	1,1-Dichloroethene (ug/L)	Chloroform (ug/L)	1,2-Dichloroethane (ug/L)	1,1,1-Trichloroethane (ug/L)	Carbon Tetrachloride (ug/L)	Methyl Acetate (ug/L)	Methylene Chloride (ug/L)	Acetone (ug/L)	1,1-Dichloroethane (ug/L)	Trans-1,2-Dichloroethene (ug/L)	Cis-1,2-Dichloroethene (ug/L)	2-Butanone (ug/L)	Chloroethane (ug/L)	Benzene (ug/L)	Trichloroethene (ug/L)	Toluene (ug/L)	Chlorobenzene (ug/L)	Ethylbenzene (ug/L)	Styrene (ug/L)	Xylenes (ug/L)	Cyclohexane (ug/L)	Isopropyl Alcohol (ug/L)	Methyl Cyclohexane (ug/L)	1,2,4-Trimethylbenzene (ug/L)
Lower Dockery																									
MW 1A	2/13/1996	<1.0	57	29	<1.0	<2.0	<1.0	68	4	<1.0	<1.0	<1.0	<2.0	<10	34	270	<5.0	1100	61	180	170	<0.30	11	NA	<10	2000
	5/2/1996	<1.0	56	39	<1.0	<2.0	<1.0	73	3.8	<1.0	<1.0	<1.0	<2.0	<10	42	310	<5.0	1300	78	120	150	<0.30	12	NA	<10	1800
	7/31/1996	<1.0	41	33	<1.0	<2.0	<1.0	90	2.2	<2.0	<1.0	<1.0	<2.0	<10	189	1100	<5.0	7100	260	400	660	0.94	42	NA	NA	9300
	11/21/1996	<1.0	37	24	<1.0	<2.0	<1.0	70	2.4	<2.0	<1.0	1.1	<2.0	<10	95	820	<5.0	2300	160	270	390	0.47	28	NA	NA	3100
(DUP)	11/7/1996	<1.0	32	19	<1.0	<2.0	<1.0	62	2	<1.0	<1.0	1	<2.0	<10	59	700	<5.0	2000	160	250	360	0.45	66	NA	NA	NA
	2/27/1997	<1.0	41	34	<1.0	<2.0	<1.0	59	6.1	<1.0	<1.0	<1.0	<2.0	<10	34	170	<5.0	670	41	62	110	<0.30	9.9	NA	NA	360
	5/13/1997	<1.0	68	52	<1.0	<2.0	<1.0	75	3.2	<1.0	<1.0	<1.0	<2.0	<10	33	190	<5.0	810	51	77	92	<0.30	11	NA	NA	540
	8/6/1997	<2.0	68	58	<2.0	<4.0	<2.0	63	2.1	<2.0	<2.0	<2.0	<4.0	<20	160	800	6.3	4300	340	<50	720	<0.30	65	NA	NA	2700
	11/12/1997	<1.0	71	57	<1.0	<2.0	<1.0	70	3.9	<1.0	<1.0	<1.0	<2.0	<10	84	620	<5.0	1700	150	260	360	<1	39	NA	NA	1900
	2/5/1998	<1.0	68	51	<1.0	<2.0	<1.0	53	2.2	<1.0	<1.0	<1.0	<2.0	<10	<10	<20	<5.0	56	<40	<50	75	<0.30	8.7	NA	NA	540
	5/6/1998	<1.0	20	6.9	<1.0	<2.0	<1.0	36	1.9	<1.0	<1.0	<1.0	<2.0	<10	92	510	<5.0	2400	140	210	300	<0.30	22	NA	NA	1600
	8/6/1998	<1.0	22	5.7	<1.0	<2.0	<1.0	31	1.2	<1.0	<1.0	<1.0	<2.0	<10	41	230	<5.0	970	62	97	130	<0.30	11	NA	NA	690
	11/3/1998	<1.0	25	13	<1.0	<2.0	<1.0	38	<1.0	<1.0	<1.0	<1.0	<2.0	<10	39	160	<5.0	640	46	56	96	<0.30	6.9	NA	NA	370
	2/11/1999	<1.0	14	6.5	<1.0	<2.0	<1.0	21	<1.0	<1.0	<1.0	<1.0	<2.0	<10	45	240	<5.0	1100	68	98	140	<0.30	9.8	NA	NA	480
	5/12/1999	<2.0	13	5.6	<2.0	<4.0	<2.0	28	<2.0	<2.0	<2.0	<2.0	<4.0	<20	75	360	<3.0	1300	78	110	160	2.7	9.0	NA	NA	740
	8/6/1999	<1.0	13	4.3	<1.0	<2.0	<1.0	20	<1.0	<1.0	<1.0	<1.0	<2.0	<10	140	700	5.1	1700	210	320	430	<0.30	32.0	NA	NA	1400
	11/2/1999	<1.0	15	6.7	<1.0	<2.0	<1.0	10	<1.0	<1.0	<1.0	<1.0	<2.0	<10	95	480	<5.0	2500	140	250	290	<0.30	29.0	NA	NA	1300
	2/17/2000	<1.0	30	9	<1.0	<2.0	<1.0	18	<1.0	<1.0	<1.0	<1.0	<2.0	<10	110	390	<5.0	1900	140	170	270	0.37	15.0	NA	NA	1100
	5/8/2000				Well	Not	Sampled	Due To	Obstruction													Well	Not	Sampled	Due To	Obstruction
	8/3/2000				Well	Not	Sampled	Due To	Obstruction													Well	Not	Sampled	Due To	Obstruction
	1/16/2001				Well	Not	Sampled	Due To	Obstruction													Well	Not	Sampled	Due To	Obstruction
	7/11/2001	<1.0	10	2.3	<1.0	<2.0	<1.0	2.0	3.4	<1.0	<1.0	<1.0	<2.0	<10	120	44	<5.0	230	<40	54	290	19	5.7	NA	NA	1600
	1/16/2002				Not	Sampled	Because	Well	West	Dry					Not	Sampled		Because	Well	West	Dry					
	7/30/2002				Not	Sampled	Because	Well	West	Dry					Not	Sampled		Because	Well	West	Dry					
	1/28/2003				Not	Sampled	Because	Well	West	Dry					Not	Sampled		Because	Well	West	Dry					
Lower Dockery	7/24/2003	<1.0	16	2.3	<2.0	<1.0	<1.0	6.2	1.3	<1.0	<1.0	<1.0	<2.0	<10	229	120	<1.0	790	160	100	1100	60	138.0	<0.20	NA	590
Downgradient from on-site source	1/13/2004	<1.0	14	<1.0	<2.0	<5.0	<1.0	3.9	<1.0	<1.0	NA	NA	NA	NA	11	<20	<1.0	22	<40	<50	<20	0.31	<5.0	NA	NA	27
Suspended on 3/05	4/5/2004	<1.0	18	1.8	<2.0	<5.0	<1.0	4.5	<1.0	<1.0	<1.0	<1.0	<2.0	<25	11	NA	NA	19	NA	NA	NA	0.48	<5.0	NA	NA	16
	6/23/2004	<1.0	16	1.2	<2.0	<5.0	<1.0	3.9	<1.0	<1.0	<1.0	<1.0	<2.0	<25	28	72	<1.0	220	<40	<50	46	1.1	<5.0	NA	NA	190
	10/31/2004	<1.0	14	1.7	<1.0	<2.0	<1.0	3.6	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<10	NA	NA	<5.0	NA	NA	NA	<0.30	<5.0	NA	NA	<5.0
	1/28/2005	<1.0	9.9	1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<10	NA	NA	6.0	NA	NA	NA	<0.30	<5.0	NA	NA	10
	5/6/2005	<1.0	11	1.0	<1.0	<2.0	<1.0	3.6	<1.0	<1.0	<1.0	<1.0	<2.0	<10	5.2	NA	NA	<5.0	NA	NA	NA	<0.30	<1.5	NA	NA	<5.0
Non-Action Performance Standard		1	1900	7	70	5	1	200	2.8	1	1	1000	400	3300	70	1400	1	50	100	50	9000	5	15	11	154	

NA = Not Analyzed DL = Dilution DUP = duplicate

Table 12
Groundwater Quality Summary
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Well	Date	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Chloroform (ug/L)	1,2-Dichloroethane (ug/L)	Methylene Chloride (ug/L)	Tetrachloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	Trichloroethene (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	Chlorobenzene (ug/L)	Dichlorobenzene (ug/L)	Naphthalene (ug/L)	Trimethylbenzene (ug/L)	Methyl tert-butyl ether (ug/L)	Acetone (ug/L)	Carbon disulfide (ug/L)	Isopropanol (ug/L)	Methyl ethyl ketone (ug/L)	Styrene (ug/L)	Tetrahydrofuran (ug/L)
Lower Dockery																									
MW 24	2/13/1996	<1.0	8.4	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	56	320	<5.0	2500	40	130	230	<0.30	27	NA	<10	1100
(DUP)	2/13/1996	<1.0	8.5	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	57	370	<5.0	2700	<40	140	250	<0.30	28	NA	19	1000
	5/2/1996	<1.0	7.5	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	65	<5.0	2400	<40	<70	<25	<0.30	<3.0	NA	<10	15
	8/1/1996	<1.0	3.7	4.8	14	<2.0	5.2	1.7	29	<1.0	<1.0	<1.0	<3.0	<10	<10	38	<5.0	2500	<40	<70	27	<0.30	<3.0	NA	NA	79
	11/7/1996	<1.0	7.1	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<3.0	<10	<10	52	<5.0	2700	<40	<70	<25	<0.30	<3.0	NA	NA	58
	2/5/1997	<1.0	24	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	64	<5.0	2500	<40	<70	<25	<0.30	<3.0	NA	NA	69
	5/13/1997	<1.0	16	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	39	<5.0	2500	<40	<70	<25	<0.30	<3.0	NA	NA	52
	8/5/1997	<1.0	17	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	92	<5.0	<5.0	<40	<70	30	<0.30	<3.0	NA	NA	28
	11/12/1997	<1.0	19	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	140	<5.0	2400	<40	<70	48.1	<1	4.3	NA	NA	150
	2/5/1998	<1.0	32	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	79	<5.0	2800	<40	<70	<25	<0.30	3.5	NA	NA	13
	5/6/1998	<1.0	34	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	120	<5.0	2700	<40	<70	36	<0.30	4.7	NA	NA	91
	8/6/1998	<1.0	30	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	110	<5.0	2600	<40	<70	<25	<0.30	4.5	NA	NA	57
	11/3/1998	<1.0	33	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	36	310	<5.0	3800	<40	74	140	1.3	16	NA	NA	590
	2/1/1999	<1.0	34	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	30	190	<5.0	2800	<40	<70	40	<0.30	8.1	NA	NA	100
	5/13/1999	<1.0	29	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	110	<5.0	2700	<40	<70	35	<0.30	<3.0	NA	NA	35
	8/6/1999	<1.0	27	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	150	<5.0	2700	<40	<70	42	<0.30	7.5	NA	NA	130
	11/3/1999	<1.0	16	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	16	160	<5.0	3600	<40	<70	45	<0.30	4.5	NA	NA	120
	2/17/2000	<1.0	33	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	120	<5.0	2500	<40	<70	<25	<0.30	<3.0	NA	NA	81
	5/9/2000	<1.0	28	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	11	160	<5.0	2700	<40	<70	41	<0.30	<3.0	NA	NA	100
	8/1/2000	<1.0	16	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	76	180	<5.0	2500	<40	<70	80	<0.30	6.2	NA	NA	170
	1/10/2001	<1.0	23	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	120	<5.0	2400	<40	<70	<25	<0.30	<3.0	NA	NA	66
	7/11/2001	<1.0	16	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	100	<5.0	2200	<40	<70	<25	<0.30	<3.0	NA	NA	26
	1/16/2002	<1.0	24	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	96	<5.0	2400	<40	<70	<25	0.91	<3.0	NA	NA	31
	7/31/2002	<1.0	15	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	130	<5.0	2200	<40	<70	<25	0.91	<3.0	NA	NA	11
	1/28/2003	<1.0	10	1.30	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	63	<5.0	980	<40	<70	<25	<0.30	<3.0	NA	NA	6
Lower Dockery	7/10/2003	<1.0	15	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	11	240	<1.0	2300	<40	<70	<25	0.4	<3.0	NA	NA	29
Dup. (MW24)	1/13/2004	<1.0	13	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11
Upgraded to	4/5/2004	<1.0	12	4.8	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<25	<10	NA	NA	2300	NA	NA	NA	<0.30	<3.0	NA	NA	6
March 29, 2004	6/22/2004	<1.0	15	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	<10	88	<1.0	2100	<40	<50	<25	NA	NA	NA	NA	6
	10/21/2004	<1.0	12	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	NA	NA	2000	NA	NA	NA	<0.30	<3.0	NA	NA	<5.0
	1/28/2005	<1.0	10	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	76	NA	1900	NA	NA	<25	NA	NA	NA	NA	<5.0
	5/4/2005	<1.0	9.1	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<5.0	NA	NA	1800	NA	NA	NA	<0.3	<1.5	NA	NA	<5.0
Remediation Performance Goal		1	3700	7	70	5	1	200	2.8	1	1	1000	600	1500	70	1000	1	50	100	50	5000	5	15	1.1	154	

NA = Not Analyzed DL = Dilution DUP = Duplicate

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Groundwater Quality Summary
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Well	Date	Chloroform (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	cis-1,2-Dichloroethene (ug/L)	Methylene chloride (ug/L)	Tetrachloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Total Xylenes (ug/L)	Acetone (ug/L)	Chromium (ug/L)	Barium (ug/L)	Beryllium (ug/L)	Manganese (ug/L)	Nickel (ug/L)	Vanadium (ug/L)	Zinc (ug/L)	Cadmium (ug/L)	Lead (ug/L)	Mercury (ug/L)	Cyanide (ug/L)	[illegible]
Macon Source Area																										
MW 2A	2/13/1996	<1.0	3.6	20	5.4	<2.0	<1.0	7.4	22	<1.0	<1.0	<1.0	<3.0	<10	<10	190	<5.0	140	<40	<50	34	<0.30	<3.0	NA	<10	54
	5/2/1996	<1.0	2.8	13	7.7	<2.0	<1.0	4.7	29	<1.0	<1.0	<1.0	<3.0	<10	<10	150	<5.0	24	<40	<50	<20	<0.30	<3.0	NA	<10	7
(DUP)	5/2/1996	<1.0	3.4	18	9.3	<2.0	<1.0	6.5	26	<1.0	<1.0	<1.0	<3.0	<10	<10	140	<5.0	19	<40	<50	<20	<0.30	<3.0	NA	<10	7
	7/31/1996	<1.0	11	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	120	<5.0	25	<40	<50	31	<0.30	<3.0	NA	NA	15
	11/6/1996	<1.0	3	4	13	<2.0	2.3	1.5	21	<1.0	<1.0	<1.0	<3.0	<10	<10	110	<5.0	13	<40	<50	<20	<0.30	<3.0	NA	NA	<5.0
	2/4/1997	<1.0	2.7	5.3	14	<2.0	2.7	1.6	19	<1.0	<1.0	<1.0	<3.0	<10	<10	180	<5.0	<5.0	<40	<50	<20	<0.30	<3.0	NA	NA	NS
	5/12/1997	<1.0	1.8	36	3.7	<2.0	<1.0	5.5	13	<1.0	<1.0	<1.0	<3.0	<10	<10	94	<5.0	6	<40	<50	<20	<0.30	<3.0	NA	NA	<5.0
	8/6/1997	<2.0	<2.0	35	<2.0	<4.0	<2.0	9.6	4	<2.0	<2.0	<2.0	<6.0	<10	<10	100	<5.0	6.7	<40	<50	<20	<0.30	<3.0	NA	NA	<5.0
(DUPLICATE 2)	11/12/1997	<2.0	<2.0	76	<2.0	<4.0	4.1	16	9.3	<2.0	<2.0	<2.0	<6.0	<20	<10	103	<5.0	25.3	<40	<50	<30	<1	<3.0	NA	NA	9
	11/12/1997	<2.0	<2.0	61	<2.0	<4.0	3.6	14	8.6	<2.0	<2.0	<2.0	<6.0	<20	<10	106	<5.0	41.4	<40	<50	<30	<1	<3.0	NA	NA	8
	2/5/1998	<5.0	<5.0	110	5.2	<10	4.8	23	13	<5.0	<5.0	<5.0	<15	<50	<10	110	<5.0	6.8	<40	<50	<20	<0.30	8.8	NA	NA	<5.0
	5/6/1998	<5.0	6.4	170	16	<10	22	36	30	<5.0	<5.0	<5.0	<15	<50	<10	120	<5.0	<5.0	<40	<50	<20	<0.20	<3.0	NA	NA	8
(DUP 2)	5/6/1998	<5.0	5.8	140	13	<10	21	38	21	<5.0	<5.0	<5.0	<15	<50	<10	120	<5.0	<5.0	<40	<50	<20	<0.30	<3.0	NA	NA	<5.0
	8/7/1998	<25	<25	470	<25	<50	<25	78	<25	<25	<25	<25	<75	<250	<10	110	<5.0	5.8	<40	<50	<20	<0.30	<3.0	NA	NA	<5.0
(DUP-2)	8/7/1998	<25	<25	380	<25	<50	<25	64	<25	<25	<25	<25	<75	<250	<10	110	<5.0	<5.0	<40	<50	<20	<0.30	<3.0	NA	NA	<5.0
	11/4/1998	<25	<25	680	<25	<50	29	93	<25	<25	<25	<25	<75	<250	<10	120	<5.0	<5.0	<40	<50	<20	<0.30	<3.0	NA	NA	<5.0
(DUP-2)	11/4/1998	<25	<25	740	<25	<50	33	110	<25	<25	<25	<25	<75	<250	<10	130	<5.0	<5.0	<40	<50	<20	<0.30	<3.0	NA	NA	<5.0
	2/10/1999	<25	<25	750	<25	<50	30	130	25	<25	<25	<25	<75	<250	<10	130	<5.0	<5.0	<40	<50	<20	<0.30	<3.0	NA	NA	<5.0
(DUP-2)	2/10/1999	<25	<25	400	<25	<50	37	85	<25	<25	<25	<25	<75	<250	<10	130	<5.0	<5.0	<40	<50	35	<0.30	<3.0	NA	NA	5.0
	5/13/1999	<25	<25	870	<25	<50	61	190	<25	<25	<25	<25	<75	<250	21	130	<5.0	12	<40	<50	82	<0.30	<3.0	NA	NA	6.0
(DUP-2)	5/13/1999	<25	<25	880	<25	<50	56	190	<25	<25	<25	<25	<75	<250	<10	120	<5.0	9.6	<40	<50	32	<0.30	<3.0	NA	NA	6.0
	8/6/1999	<25	<25	630	<25	<50	44	110	<25	<25	<25	<25	<75	<250	<10	130	<5.0	5.7	<40	<50	24	<0.30	9.1	NA	NA	<5.0
(DUP-2)	8/6/1999	<25	<25	750	<25	<50	55	130	<25	<25	<25	<25	<75	<250	<10	130	<5.0	<5.0	<40	<50	72	<0.30	6.9	NA	NA	<5.0
	11/3/1999	<25	<25	650	<25	<50	43	99	<25	<25	<25	<25	<75	<250	<10	120	<5.0	<5.0	<40	<50	45	1.1	<3.0	NA	NA	<5.0
(DUP-2)	11/3/1999	<25	<25	710	<25	<50	40	100	<25	<25	<25	<25	<75	<250	<10	120	<5.0	<5.0	<40	<50	34	<0.30	<3.0	NA	NA	<5.0
	2/17/2000	<25	<25	630	<25	<50	41	87	<25	<25	<25	<25	<75	<250	<10	130	<5.0	<5.0	<40	<50	<20	<0.30	<3.0	NA	NA	<5.0
(DUP-2)	2/17/2000	<25	<25	610	<25	<50	44	87	<25	<25	<25	<25	<75	<250	<10	130	<5.0	<5.0	<40	<50	<20	<0.30	<3.0	NA	NA	5.0
	5/8/2000	<25	<25	740	<25	<50	40	64	<25	<25	<25	<25	<75	<250	13	140	<5.0	8.8	<40	<50	21	<0.30	<3.0	NA	NA	13.0
(DUP-2)	5/8/2000	<25	<25	730	<25	<50	35	61	<25	<25	<25	<25	<75	<250	27	140	<5.0	48.0	<40	<50	410	<0.30	<3.0	NA	NA	22.0
	8/2/2000	<25	<25	460	<25	<50	44	61	<25	<25	<25	<25	<75	<620	<10	130	<5.0	5.8	<40	<50	30	<0.30	<3.0	NA	NA	9.0
(DUP-2)	8/2/2000	<25	<25	480	<25	<50	46	64	<25	<25	<25	<25	<75	<620	13	130	<5.0	8.6	<40	<50	52	<0.30	<3.0	NA	NA	<5.0
	1/17/2001	<25	<25	400	<25	<120	38	52	<25	<25	<25	<25	<50	<250	<10	210	<5.0	18.0	<40	<50	34	<0.30	<3.0	NA	NA	8.0
(DUP-2)	1/17/2001	<10	<10	370	<10	<20	35	47	<10	<10	<10	<10	<30	<100	<10	180	<5.0	8.4	<40	<50	34	<0.30	<3.0	NA	NA	8.5
	7/11/2001	<10	19	370	<10	<20	44	51	10	<10	<10	<10	<30	<100	<10	150	<5.0	10.0	<40	<50	48	<0.30	<3.0	NA	NA	12.0
(DUP-2)	7/11/2001	<10	19	320	<10	<20	48	53	11	<10	<10	<10	<30	<100	<1.0	150	<5.0	6.1	<40	<50	31	<0.30	<3.0	NA	NA	<5.0
	1/15/2002	<10	<10	320	<10	<20	33	42	<10	<10	<10	<10	<30	<100	41	320	<5.0	700.0	<40	<50	180	0.85	7.4	NA	NA	170.0
(DUP-2)	1/15/2002	<10	<10	310	<10	<20	27	37	<10	<10	<10	<10	<30	<100	37	300	<5.0	370.0	<40	<50	120	0.35	6.2	NA	NA	150.0
	7/30/2002	<10	<10	340	<10	<20	31	34	<10	<10	<10	<10	<30	<100	<10	170	<5.0	28.0	<40	<50	62	0.67	<3.0	NA	NA	12.0
Remediation Performance Stds		1	1590	7	70	5	1	200	2.8	1	1	1000	400	3100	50	1000	1	50	100	50	5000	5	15	1.1	154	

NA = Not Analyzed   DL = Dilution   DUP - duplicate

Table 12
Groundwater Quality Summary
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Well ID	Date	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Methylene Chloride (ug/L)	Tetrachloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	Trichloroethene (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	Chromium (ug/L)	Iron (ug/L)	Manganese (ug/L)	Nickel (ug/L)	Vanadium (ug/L)	Zinc (ug/L)	Cadmium (ug/L)	Lead (ug/L)	Mercury (ug/L)	Barium (ug/L)	Cobalt (ug/L)	Copper (ug/L)
Macon Source Area																										
MW 2A																										
(DUP 2)	7/30/2003	<10	<10	380	<10	<20	29	25	<10	<10	<10	<10	<30	<100	<10	170	<5.0	14.0	<40	<20	22	<0.20	<3.0	NA	NA	10.0
	1/28/2003	<10	<10	330	<10	<20	22	24	<10	<10	<10	<10	<30	<100	<10	140	<5.0	6.3	<40	<20	<20	<0.20	<3.0	NA	NA	<5.0
(DUP 2)	1/28/2003	<10	<10	310	<10	<20	21	23	<10	<10	<10	<10	<30	<100	<10	130	<5.0	<5.0	<40	<20	<20	<0.20	<3.0	NA	NA	<5.0
	7/18/2003	<2.0	3.1	72	2.3	<4.0	3.5	12	5.1	<2.0	<2.0	<2.0	<6.0	<20	<10	190	<1.0	17.0	<40	<20	44	<0.82	4.4	NA	NA	<5.0
(DUP 2)	7/18/2003	<2.0	3.0	73	2.2	<4.0	3.5	11	5	<2.0	<2.0	<2.0	<6.0	<20	<10	190	<1.0	15.0	<40	<20	39	<0.82	3.3	NA	NA	<5.0
	1/13/2000	<2.0	2.7	86	<4.0	<10	3.6	9.1	4.1	<2.0	<2.0	<2.0	<4.0	<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.0
(DUP 2)	1/13/2000	<2.0	<2.0	72	<10	<25	<5.0	5.7	<5.0	<5.0	<2.0	<5.0	<10	<130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.0
	6/26/2004	<5.0	<5.0	98	<10	<25	<5.0	8	<5.0	<5.0	<5.0	<5.0	<10	<130	<10	160	<1.0	<5.0	<40	<20	41	NA	NA	NA	NA	6.0
(DUP 2)	6/26/2004	<5.0	<5.0	90	<10	<25	<5.0	8	<5.0	<5.0	<5.0	<5.0	<10	<130	<10	160	<1.0	<5.0	<40	<20	37	NA	NA	NA	NA	<5.0
	1/26/2005	<2.0	6.1	200	<2.0	<4.0	41	18	6.7	<2.0	<2.0	<2.0	<6.0	<20	<10	120	NA	<5.0	NA	NA	<20	NA	NA	NA	NA	5.0
(DUP 2)	1/26/2005	<2.0	6.2	110	<2.0	<4.0	42	19	6.9	<2.0	<2.0	<2.0	<6.0	<20	<10	120	NA	<5.0	NA	NA	<20	NA	NA	NA	NA	7.0
	7/26/2005	<1.0	5.0	170	<1.0	<2.0	36	16	5.4	<1.0	<1.0	<1.0	<3.0	<10	7.3	160	NA	7.0	NA	NA	<20	NA	NA	NA	NA	7.0
(DUP 2)	7/26/2005	<1.0	4.9	150	<1.0	<2.0	32	14	5.4	<1.0	<1.0	<1.0	<3.0	<10	<5.0	160	NA	5.0	NA	NA	<20	NA	NA	NA	NA	NA
	8/2/2006	<1.0	4.4	140	1.0	<2.0	28	9.9	5.1	<1.0	<1.0	<1.0	<3.0	<10	7.2	160	<5.0	10	4.0	<5.0	37	NA	NA	NA	NA	6
	7/29/2007	<1.0	3.8	98	1.3	<3.0	24	8.1	4.9	<1.0	<1.0	<1.0	<3.0	<10	6.7	170	0.72	6.0	2.5	6.1	<20	NA	NA	NA	NA	5.0
(DUP 2)	7/29/2007	<1.0	4.1	97	1.3	<3.0	25	8.4	5.1	<1.0	<1.0	<1.0	<3.0	<10	<3.0	170	0.56	<5.0	1.1	6.2	<20	NA	NA	NA	NA	9.5
	8/23/2008	<1.0	3.9	110	1.0	<2.0	21	5.1	3.2	<1.0	<1.0	<1.0	<3.0	<10	7.6	170	<0.20	<5.0	4.0	<3.0	<20	NA	NA	NA	NA	<5.0
	2/13/2009	<1.0	3.8	200	1.0	<2.0	40	7.6	4.5	<1.0	<1.0	<1.0	<3.0	<10	11	170	0.79	67	7.6	<10	64	NA	NA	NA	NA	44
	10/16/2010	<1.0	4.4	97	1.4	<2.0	16	2.8	2.8	<1.0	<1.0	<1.0	<3.0	<10	11	170	0.37	29	6.3	<10	30	NA	NA	NA	NA	
(DUP 2)	10/14/2010	<1.0	4.1	4.4	1.2	<2.0	17	3.4	2.7	<1.0	<1.0	<1.0	<3.0	<10	13	160	<0.50	34	5.8	<10	27	NA	NA	NA	NA	31
	9/19/2011	<1.0	1.4	32	<1.0	<2.0	7.6	1.1	1.6	<1.0	<1.0	<1.0	<3.0	<10	11	190	0.73	28	5.7	<10	46	NA	NA	NA	NA	38
(DUP 2)	9/19/2011	<1.0	1.4	36	<1.0	<2.0	8.4	1.3	1.9	<1.0	<1.0	<1.0	<3.0	<10	8.6	180	0.81	31	7.0	<10	48	NA	NA	NA	NA	42
	8/31/2012	<1.0	1.9	72	<1.0	<2.0	11	1.5	2.3	<1.0	<1.0	<1.0	<3.0	<10	<5.0	170	<0.50	31	<5.0	<10	<20	NA	NA	NA	NA	42
(DUP 2)	8/31/2012	<1.0	1.8	68	<1.0	<2.0	11	<1.0	11	<1.0	<1.0	<1.0	<3.0	<10	8.6	160	<0.50	37	5.7	<10	<20	NA	NA	NA	NA	23
	9/12/2013	<1.0	<1.0	13	<1.0	<2.0	2.3	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<10	<2.0	160	<0.50	12	<5.0	<10	180	NA	NA	NA	NA	<5.0
(DUP 2)	9/12/2013	<1.0	<1.0	12	<1.0	<2.0	2.3	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<2.0	150	<0.50	7.5	<5.0	<10	68	NA	NA	NA	NA	13
	8/14/2014	<1.0	4.4	<1.0	<1.0	<2.0	<1.0	<1.0	2.2	<1.0	<1.0	<1.0	<3.0	<10	<2.0	210	<0.50	<5.0	<5.0	<10	<20	NA	NA	NA	NA	6.0
Remediation Performance Goal		1	7500	7	70	5	1	200	7.5	1	1	1000	600	7500	50	1000	1	70	100	50	5000	5	15	11	154	

NA = Not Analyzed DL = Dilution DUP = duplicate

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Well	Date	Chloroform (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	cis-1,2-Dichloroethene (ug/L)	Methylene chloride (ug/L)	Tetrachloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Total Xylenes (ug/L)	Acetone (ug/L)	Chromium (ug/L)	Barium (ug/L)	Beryllium (ug/L)	Magnesium (ug/L)	Nickel (ug/L)	Vanadium (ug/L)	Zinc (ug/L)	Calcium (ug/L)				
Macon Source Area																										
MW 9	2/13/1996	<1.0	120	<10	25	14	16	<10	10	35	<10	<10	<30	160*7.32	1200	7400	6.1	7800	1600	500	790	2.6	35	NA	<10	880
	5/2/1996	<1.0	130	<10	160	<20	<10	<10	22	160	<10	<10	9.8	190	380	3200	<5.0	5600	520	140	210	<0.30	12	NA	<10	1700
	7/31/1996	<10	250	<10	340	<20	18	<10	24	190	<10	<10	<30	<10	210	1300	<5.0	3900	390	78	140	<0.30	17	NA	NA	830
(DUP)	7/31/1996	<10	190	≤10	270	<20	<10	<10	21	100	<10	<10	<30	120	170	1100	<5.0	4700	230	61	130	<0.30	9.4	NA	NA	940
	11/6/1996	<5.0	170	<5.0	100	<10	<5.0	7	11	7.5	<5.0	<5.0	13	220	47	520	<5.0	5100	94	<50	37	<0.30	<3.0	NA	NA	380
	2/5/1997	<1.0	76	8.2	13	<2.0	1.8	2.6	1.3	4.2	1.4	<1.0	9.5	180	28	810	<5.0	4800	80	<50	42	2	<3.0	NA	NA	140
	5/12/1997	<2.0	80	52	59	<4.0	6.9	12	7.2	9	<2.0	<2.0	<6.0	<20	68	1100	<5.0	3800	<40	<50	51	<0.30	3.5	NA	NA	400
	8/6/1997	<2.0	96	22	43	<4.0	6.4	7.4	4.6	6.4	<2.0	<2.0	<6.0	89	160	1000	<5.0	5800	360	67	170	1.8	3.5	NA	NA	750
	11/12/1997	<1.0	48	33	47	<2.0	12	11	9.5	16	<1.0	<1.0	<3.0	<10	77.7	1070	<5.0	4400	162	<50	81.4	<1	<3.0	NA	NA	600
(DUP 2)	2/5/1998	<5.0	150	12	310	<10	<5.0	6	19	100	<5.0	<5.0	<15	<50	43	690	<5.0	4000	83	<50	39	<0.30	5.3	NA	NA	240
	2/5/1998	<10	100	<10	220	<20	<10	<10	24	47	<10	<10	<30	<100	39	810	<5.0	5000	82	<50	36	<0.30	37	NA	NA	210
	5/6/1998	<10	63	54	290	<20	16	<10	65	30	<10	<10	<30	<100	31	700	<5.0	7000	46	<50	36	<0.30	<3.0	NA	NA	61
	8/7/1998	<5.0	90	140	350	<10	27	36	40	30	<5.0	<5.0	<15	<50	15	900	<5.0	6800	61	<50	39	<0.30	<3.0	NA	NA	39
(DUP-1)	8/7/1998	<10	99	110	310	<20	20	28	31	19	<10	<10	<30	<100	<10	660	<5.0	5900	54	<50	<28	<0.30	<3.0	NA	NA	34
	11/3/1998	<10	62	160	300	<20	22	27	32	19	<10	<10	<30	<100	73	1300	<5.0	5300	100	<50	79	0.70	<3.0	NA	NA	180
	11/3/1998	<10	56	200	290	<20	23	38	32	<10	<10	<10	<30	<100	69	1200	<5.0	5200	180	<50	64	0.50	<3.0	NA	NA	270
	2/10/1999	<5.0	75	110	130	<10	18	19	23	32	<5.0	<5.0	<15	<10	16	590	<5.0	1700	49	<50	38	<0.30	<3.0	<0.20	NA	140
(DUP-1)	2/10/1999	<10	71	120	160	<20	18	24	34	26	<10	<10	<30	<10	18	570	<5.0	3400	40	<50	29	<0.30	<3.0	<0.20	NA	140
	5/13/1999	<10	73	270	270	<20	36	54	34	29	<10	<10	<30	<100	58	1200	<5.0	3100	110	<50	56	0.39	<3.0	<0.20	NA	220
(DUP-1)	5/13/1999	<10	80	220	200	<20	23	42	37	26	<10	<10	<30	<100	53	940	<5.0	3200	100	<50	75	0.30	<3.0	<0.20	NA	250
	8/5/1999	<10	56	160	140	<20	17	34	18	29	<10	<10	<30	<100	83	1700	<5.0	4800	200	<50	83	0.79	<3.0	<0.20	NA	270
(DUP-1)	8/5/1999	<10	47	150	150	<20	24	41	22	26	<10	<10	<30	<100	41	990	<5.0	4100	110	<50	52	0.36	8	<0.20	NA	320
	11/2/1999	<25	<25	500	720	<50	40	98	46	<25	<25	<25	<75	<250	630	2200	<5.0	720	680	110	210	<0.30	19	0.57	NA	1000
(DUP-1)	11/2/1999	<25	<25	560	340	<50	40	100	47	<25	<25	<25	<75	<250	1200	3400	<5.0	978	1200	220	300	0.39	15	0.58	NA	1000
	2/17/2000	<25	<25	520	278	<50	51	98	42	<25	<25	<25	<75	<250	720	1600	<5.0	380	400	66	120	<0.30	5.2	0.73	NA	1200
(DUP-1)	2/17/2000	<25	<25	510	200	<50	42	88	39	<25	<25	<25	<75	<250	170	1400	<5.0	260	190	59	99	<0.30	4.2	0.61	NA	1100
	5/8/2000	<25	<25	410	220	<50	60	89	39	<25	<25	<25	<75	1100	80	650	<5.0	85	84	<50	42	<0.30	<3.0	0.24	NA	42
(DUP-1)	5/8/2000	<25	<25	530	200	<50	44	64	36	<25	<25	<25	<75	<250	66	590	<5.0	86	77	<50	62	<0.30	<3.0	0.21	NA	120
	8/3/2000	<25	<25	480	190	<50	56	72	36	<25	<25	<25	<75	<620	260	1400	<5.0	200	310	54	120	<0.30	6.0	1.1	NA	510
(DUP-1)	8/3/2000	<25	<25	410	180	<50	59	74	35	<25	<25	<25	<75	<620	290	1500	<5.0	290	340	61	130	<0.30	6.2	0.97	NA	570
	1/17/2001	<2.0	71	45	19	<4.0	13	4.5	5.6	34	<2.0	<2.0	<6.0	<20	38	1700	<5.0	5600	95	<50	52	1.10	<3.0	<0.20	NA	470
	7/11/2001	<2.0	55	24	5.1	<4.0	10	3.7	3.6	10	<2.0	<2.0	<6.0	<20	64	1200	<5.0	4000	120	<50	79	0.44	3.2	NA	NA	380
(DUP-1)	7/11/2001	<5.0	9.9	130	<5.0	<10	<5.0	29	<5.0	<5.0	<5.0	<5.0	<15	<50	90	220	<5.0	380	<40	<50	62	<0.30	170.0	1.1	NA	200
	1/16/2002		Not	Sampled	Due to	Dry	Conditions								Not	Sampled	Due	To	Dry	Conditions						
	7/30/2002		Not	Sampled	Due to	Dry	Conditions								Not	Sampled	Due	To	Dry	Conditions						
Remediation Performance Standards		1	3700	7	70	5	1	200	2.8	1	1	1000	400	3500	50	1000	1	50	100	50	5000	5	17	1.1	154	

NA = Not Analyzed DL = Dilution DUP duplicate

Table 12
Groundwater Quality Summary
Macon/Dockery Site
Richmond County, North Carolina
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Well ID	Date	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Chloroethane (ug/L)	Methylene Chloride (ug/L)	Vinyl Chloride (ug/L)	1,1,1-Trichloroethane (ug/L)	Trichloroethene (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Acetone (ug/L)	Chloroform (ug/L)	Bromodichloromethane (ug/L)	Methyl Ethyl Ketone (ug/L)	Naphthalene (ug/L)	Xylenes (ug/L)	Carbon Disulfide (ug/L)	Isopropanol (ug/L)	Methylene Chloride (ug/L)	Carbon Disulfide (ug/L)	Isopropanol (ug/L)	Naphthalene (ug/L)	Xylenes (ug/L)
Macon Source Area																								
MW 9	1/28/2003		Not	Sampled	Due to	Dry	Conditions																	
	7/18/2003	<2.0	38	7	51	<4.0	4.5	<2.0	2.7	14	<2.0	<2.0	<4.0	34	<10	400	<1.0	6800	<40	<70	<20	<0.20	<2.0	NA	NA	53
(DUP 1)	7/18/2003	<2.0	36	6.6	49	<4.0	4.6	<2.0	2.4	11	<2.0	<2.0	<4.0	130	<10	400	<1.0	5700	<40	<70	<20	<0.20	<2.0	<0.20	NA	44
	1/13/2004	<2.0	33	<1.0	38	<10	4.6	<2.0	<2.0	14	<2.0	<2.0	<4.0	<70	<10	340	<2.0	3100	<40	<50	37	<0.20	<2.0	NA	NA	10
	6/28/2004	<2.0	35	23	<4.0	<10	5.1	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<50	70	1700	<1.0	3400	150	<70	43	<0.10	<2.0	NA	NA	570
	1/28/2005	<1.0	37	60	10	<2.0	15	9.3	9.3	4.0	<1.0	<1.0	<2.0	<10	22	470	NA	3400	NA	NA	37	0.31	<2.0	NA	NA	54
(DUP 1)	1/28/2005	<1.0	37	60	11	<2.0	15	9.6	9.6	5.0	<1.0	<1.0	<2.0	<10	46	960	NA	3400	NA	NA	58	NA	<2.0	0.5	NA	120
	7/20/2005	<1.0	28	15	3.7	7.2	<1.0	1.5	3.3	2.5	<1.0	<1.0	<2.0	<10	12	350	NA	3600	NA	NA	<20	<0.10	<1.0	NA	NA	150
(DUP 1)	7/20/2005	<1.0	27	14	3.3	<2.0	6.3	1.4	3.3	2.1	<1.0	<1.0	<2.0	<10	27	820	NA	4300	NA	NA	29	NA	1.8	<0.20	NA	NA
	8/2/2006	<1.0	39	18	15	<2.0	8.9	2.2	5.9	4.3	<1.0	<1.0	<2.0	<10	19	660	<0.50	3800	52	7.9	31	<0.10	<1.0	NA	NA	180
	7/29/2007	<2.0	36	1.3	130	<2.0	2.1	<1.0	4.4	79	1.2	<1.0	<2.0	<10	23	850	<0.50	7900	42	11	28	<0.10	1.7	NA	NA	130
(DUP 1)	7/29/2007	<2.0	31	1.5	120	<2.0	2.1	<1.0	4.0	72	1.0	<1.0	<2.0	<10	23	710	<0.50	6400	47	13	25	<0.10	1.9	NA	NA	170
	8/23/2008	<1.0	11	1.4	1.1	<2.0	2.2	<1.0	1.0	<1.0	<1.0	<1.0	<2.0	<10	32	1400	<0.50	4800	76	18	51	<0.50	2.0	NA	NA	670
(DUP 1)	8/23/2008	<1.0	11	1.5	<1.0	<2.0	1.9	<1.0	1.0	<1.0	<1.0	<1.0	<2.0	<10	41	1200	<0.50	5400	91	23	<5	<0.50	2.2	NA	NA	680
	8/13/2009	<1.0	27	5.8	3.4	<2.0	6.8	<1.0	4.6	3.2	<1.0	<1.0	<2.0	<10	48	2200	0.69	4400	150	29	86	0.62	3.1	NA	NA	480
(DUP 2)	8/13/2009	<1.0	26	6.0	4.5	<2.0	6.0	1.2	4.9	3.7	<1.0	<1.0	<2.0	<10	34	1300	<0.50	4700	97	16	49	<0.50	1.9	NA	NA	670
	10/14/2010	<1.0	36	3.7	2.1	<3.0	6.4	<1.0	3.8	1.7	<1.0	<1.0	<3.0	<10	230	2700	1.2	6300	420	110	170	0.78	12	NA	NA	NA
(DUP 1)	10/14/2010	<1.0	31	3.8	2.0	<3.0	5.0	<1.0	2.9	2.0	<1.0	<1.0	<3.0	<10	200	2300	1.3	6100	370	130	180	0.73	15	NA	NA	1800
	6/16/2011	<1.0	26	29	12	<2.0	22	4.0	15	3.2	<1.0	<1.0	<2.0	<10	76	1000	<0.20	98	24	<10	28	1.4	<1.5	NA	NA	430
(DUP 1)	6/16/2011	<1.0	27	29	13	<3.0	23	4.1	15	3.3	<1.0	<1.0	<2.0	<10	71	1000	<0.20	110	26	<10	29	1.5	<1.5	NA	NA	530
	8/31/2012	<1.0	20	83	18	<2.0	22	3.6	12	1.3	<1.0	<1.0	<2.0	<10	310	1400	<0.50	710	170	64	73	<0.50	3.1	NA	NA	220
(DUP 1)	8/31/2012	<1.0	24	92	19	<2.0	21	4.1	14	1.6	<1.0	<1.0	<2.0	<10	97	790	<0.50	160	54	12	<20	<0.50	<1.5	NA	NA	330
	9/12/2013	<1.0	14	1.3	2.6	<2.0	5.1	<1.0	3.6	<1.0	<1.0	<1.0	<2.0	<10	68	960	<0.50	2500	180	34	160	2.7	3.7	NA	NA	600
	8/14/2014	<1.0	12	<1.0	1.3	<2.0	1.9	<1.0	1.1	1.3	<1.0	<1.0	<2.0	<10	39	710	<0.50	6400	110	30	130	3.8	3.5	NA	NA	420
Remediation Performance Goal		1	3700	7	70	5	1	300	2.5	1	1	1800	400	3700	70	1000	1	50	140	50	5600	5	15	11	154	

NA = Not Analyzed DL = Dilution DUP = Duplicate

Table 12
Groundwater Quality Summary
Macon/Dockery Site
Richmond County, North Carolina
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Well	Date	Chloroform (ug/L)	1,1-Dichloroethane (ug/L)	Chloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Methylene Chloride (ug/L)	Toluene (ug/L)	1,1,2-Trichloroethane (ug/L)	Trichloroethene (ug/L)	Vinyl Acetate (ug/L)	Benzene (ug/L)	Tetrachloroethene (ug/L)	Ethylbenzene (ug/L)	Acetone (ug/L)	Carbon Disulfide (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Vinyl Chloride (ug/L)	Chloromethane (ug/L)	2-Butanone (ug/L)	Dibromochloromethane (ug/L)	Xylenes (ug/L)	Carbon Tetrachloride (ug/L)	Trichlorofluoromethane (ug/L)	Dichlorodifluoromethane (ug/L)	1,2-Dichloroethene (ug/L)	Methyl Isobutyl Ketone (ug/L)	Styrene (ug/L)	2-Hexanone (ug/L)
Maximum Tolerable Levels																														
MW-11	2/16/1996	<1.0	<1.0	4.5	<1.0	<3.0	<1.0	<1.0	7	<1.0	<1.0	<1.0	<3.0	<30	<10	140	<5.0	85	<40	<30	39	<0.30	3.2	NA	<1.0	420
	5/2/1996	<1.0	<1.0	4.5	<1.0	<3.0	<1.0	<1.0	5.7	<1.0	<1.0	<1.0	<3.0	<30	<10	93	<5.0	13	<40	<30	23	<0.30	6.7	NA	<1.0	9
	7/30/1996	<1.0	<1.0	5.3	<1.0	<3.0	<1.0	<1.0	5.8	<1.0	<1.0	<1.0	<3.0	<30	<10	120	<5.0	37	<40	<30	31	<0.30	<3.0	NA	NA	32
	11/6/1996	1.7	<1.0	5.8	<1.0	<3.0	<3.0	1.1	8.5	<1.0	<1.0	<1.0	<3.0	<30	<10	98	<5.0	18	<40	<30	<30	<0.30	<3.0	NA	NA	8
	2/6/1997	<1.0	<1.0	5.5	<1.0	<3.0	<1.0	<1.0	8.4	<1.0	<1.0	<1.0	<3.0	<30	<10	98	<5.0	18	<40	<30	34	<0.30	<3.0	NA	NA	33
	5/13/1997	<1.0	<1.0	6.2	<1.0	<3.0	<1.0	<1.0	8	<1.0	<1.0	<1.0	<3.0	<30	<10	86	<5.0	9.7	<40	<30	<30	<0.30	<3.0	NA	NA	<5.0
	8/6/1997	<1.0	<1.0	1.9	<1.0	<2.0	<1.0	<1.0	2.9	<1.0	<1.0	<1.0	<3.0	<30	<10	15	220	<5.0	130	<40	<30	45	<0.30	5.3	NA	NA	500
	11/13/1997	<1.0	<1.0	4	<1.0	<2.0	<1.0	<1.0	6.4	<1.0	<1.0	<1.0	<3.0	<30	<10	16.6	120	<5.0	34.6	<40	<30	20.7	<1	<3	NA	NA	110
	2/3/1998	<1.0	<1.0	3.3	<1.0	<3.0	<1.0	<1.0	5.9	<1.0	<1.0	<1.0	<3.0	<30	<10	99	<5.0	14	<40	<30	<30	<0.30	11	NA	NA	84
	5/6/1998	<1.0	<1.0	3.2	<1.0	<3.0	<1.0	<1.0	4.3	<1.0	<1.0	<1.0	<3.0	<30	<10	90	<5.0	14	<40	<30	<30	<0.30	<3	NA	NA	10
	8/7/1998	<1.0	<1.0	1.6	<1.0	<2.0	<1.0	<1.0	2.9	<1.0	<1.0	<1.0	<3.0	<30	<10	130	<5.0	31	<40	<30	<30	<0.30	4.3	NA	NA	40
	11/4/1998	<1.0	<1.0	1.6	<1.0	<2.0	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	<3.0	<30	<10	110	<5.0	17	<40	<30	32	<0.30	<3.0	NA	NA	21
	2/10/1999	<1.0	<1.0	1.4	<1.0	<2.0	<1.0	<1.0	2.9	<1.0	<1.0	<1.0	<3.0	<30	<10	100	<5.0	13	<40	<30	34	<0.30	<3.0	NA	NA	<3.0
	5/13/1999	<1.0	<1.0	1.5	<1.0	<2.0	<1.0	<1.0	3.1	<1.0	<1.0	<1.0	<3.0	<30	<10	99	<5.0	12	<40	<30	34	<0.30	<3.0	NA	NA	<3.0
	8/5/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	<3.0	<30	<10	16	220	<5.0	100	<40	<30	84	<0.30	4.8	NA	NA	400
	11/2/1999	<1.0	<1.0	1.4	<1.0	<2.0	<1.0	<1.0	2.5	<1.0	<1.0	<1.0	<3.0	<30	<10	170	<5.0	66	<40	<30	29	<0.30	<3.0	NA	NA	290
	2/17/2000	<1.0	<1.0	3.1	<1.0	<2.0	<1.0	<1.0	3.3	<1.0	<1.0	<1.0	<3.0	<30	<10	11	120	<5.0	22	<40	<30	<30	<0.30	<3.0	NA	NA	36
	5/5/2000	<1.0	<1.0	1.9	<1.0	<2.0	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	<3.0	<10	16	130	<5.0	18	<40	<30	44	<0.30	<3.0	NA	NA	76
	8/3/2000	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<3.0	<10	11	220	<5.0	93	<40	<30	68	<0.30	4.0	NA	NA	420
	11/7/2001	<1.0	<1.0	1.4	<1.0	<3.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<3.0	<10	14	220	<5.0	78	<40	<30	34	<0.30	4.4	NA	NA	400
	7/31/2001	<1.0	<1.0	2	<1.0	<3.0	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	<3.0	<10	<10	140	<5.0	68	<40	<30	39	<0.30	3.3	NA	NA	180
	1/17/2002	<1.0	<1.0	1.4	<1.0	<3.0	<1.0	<1.0	3.4	<1.0	<1.0	<1.0	<3.0	<10	72	640	14	660	<40	170	170	<0.30	30.0	NA	NA	3600
	7/30/2002	<1.0	<1.0	1.5	<1.0	<3.0	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	<3.0	<10	19	420	<5.0	330	<40	54	72	<0.30	15.0	NA	NA	1400
	1/28/2003	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	31	90	<5.0	28	<40	<30	34	<0.30	<3.0	NA	NA	110
	7/30/2003	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	100	<1.0	11	<40	<30	<30	<0.30	<3.0	NA	NA	<3.0
	1/13/2004	<1.0	<1.0	<1.0	<2.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	22	140	<2.0	16	<40	<40	34	<0.30	<3.0	NA	NA	16	
	6/23/2004	<1.0	<1.0	<1.0	<2.0	<3.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	47	260	1.5	61	<40	<30	39	<0.30	<3.0	NA	NA	230	
	1/26/2005	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<3.0	<10	<10	130	NA	16	NA	NA	<30	<0.30	<3.0	NA	NA	9.0	
	7/28/2005	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	8.9	170	NA	32	NA	NA	<20	<0.30	2.7	NA	NA	170	
	2/2/2006	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	92	170	<0.70	34	17	<5.0	41	<0.30	<1.5	NA	NA	10	
	7/24/2007	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	5.6	140	<0.5	19	14	<5.0	36	<0.30	<1.5	NA	NA	<5.0	
	8/23/2008	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	13.0	180	<0.5	28	10	<5.0	34	<0.30	<1.5	NA	NA	30	
	8/13/2009	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<5.0	170	<0.5	30	2.8	<10	<20	<0.30	<1.5	NA	NA	170	
SDUP 1)	8/13/2009	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	12.8	230	0.94	51	7.9	15	36	<0.50	3.0	NA	NA	250	
	10/14/2010	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	46	170	<0.5	30	27	<10	<20	<0.5	<1.5	NA	NA	6.0	
	9/19/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<5.0	240	<0.5	52	<5.0	<10	21	<0.50	<1.5	NA	NA	420	
	8/31/2012	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	12	200	2.2	95	9.8	29	35	<0.50	6.1	NA	NA	560	
	9/12/2013	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<5.0	150	<5.0	19	<5.0	<10	<20	<0.50	<1.5	NA	NA	14	
	8/14/2014	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<5.0	220	<5.0	21	<5.0	<10	<20	<0.50	<1.5	NA	NA	31	
Remediation Performance Data		1	3500	7	70	5	1	200	2.8	1	1	1000	400	3500	50	1000	1	50	100	50	5000	4	15	11	154	

Table 12
Groundwater Quality Summary
Macon/Dockery Site
Richmond County, North Carolina

Well	Date	Chloroform (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	cis-1,2-Dichloroethene (ug/L)	Methylene chloride (ug/L)	Tetrachloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Total Xylenes (ug/L)	Acetone (ug/L)	Chromium (ug/L)	Barium (ug/L)	Beryllium (ug/L)	Manganese (ug/L)	Nickel (ug/L)	Vanadium (ug/L)	Zinc (ug/L)	Cadmium (ug/L)	Lead (ug/L)	Mercury (ug/L)	Cyanide (ug/L)	[illegible]
Macon Source Area																										
MW-19	2/13/1996	<3.0	3100	3.2	36	12	8.9	1.5	5.9	9102	4.1	<1.0	<3.0	24***	210	170	<5.0	3900	37	<50	<20	<0.10	<3.0	0.51	<10	33
(DL)	2/13/1996	<1.0	240	<1.0	100	<2.0	<1.0	<1.0	<1.0	660	<1.0	<1.0	<3.0	<10	<10	<10	<5.0	<5.0	<40	<50	<20	<0.10	<3.0	<0.20	<10	<5.0
	5/2/1996	<1.0	55	13	43	<2.0	1.7	6.1	12	1008	<1.0	<1.0	<3.0	<10	59	170	<5.0	3100	41	<50	<20	<0.10	<3.0	0.22	<10	47
(DL)	5/2/1996	<1.0	42	5	33	<2.0	<1.0	<1.0	7.8	43	<1.0	<1.0	<3.0	<10	<10	<10	<5.0	<5.0	<40	<50	<20	<0.10	<3.0	<0.20	<10	<5.0
	7/31/1996	<1.0	<1.0	51	89	<2.0	48	25	34	29	1	<1.0	<3.0	<10	18	120	<5.0	2900	78	<50	<20	<0.10	<3.0	<0.20	NA	33
	11/6/1996	<1.0	14	110	120	<20	16	44	21	<10	<10	<10	<3.0	<100	240	130	<5.0	2500	170	<50	<20	<0.10	<3.0	<0.20	NA	39
	2/5/1997	<25	<25	270	120	<50	33	75	36	<25	<25	<25	<75	<250	530	120	<5.0	2800	91	<50	24	<0.10	<3.0	<0.20	NA	31
	5/12/1997	<5.0	9.7	14	46	<10	<5.0	8.2	7.4	<5.0	<5.0	<5.0	<15	<50	<10	84	<5.0	2600	<40	<50	<20	<0.10	<3.0	0.12	NA	13
	8/6/1997	<1.0	60	44	43	<2.0	18	11	16	28	<1.0	<1.0	<3.0	<10	37	130	<5.0	2600	<40	<50	<20	<0.10	<3.0	<0.20	NA	75
	11/12/1997	<5.0	19	54	43	<10	13	16	11	<5.0	<5.0	<5.0	<15	<50	51.2	147	<5.0	2600	46.5	<50	26.2	<1.0	<3.0	<0.20	NA	120
	2/5/1998	<5.0	<5.0	93	38	<10	7.5	28	5.6	<5.0	<5.0	<5.0	<15	<50	25	90	<5.0	2200	<40	<50	<20	<0.10	<3.0	<0.20	NA	31
	5/6/1998	<1.0	20	13	27	<2.0	14	6.2	14	7.1	<1.0	<1.0	<3.0	<10	29	97	<5.0	1800	<40	<50	<20	<0.10	<3.0	<0.20	NA	72
	8/7/1998	<5.0	40	8.6	92	<10	14	6.9	23	8.6	<5.0	<5.0	<15	<50	18	170	<5.0	3400	44	<50	31	<0.10	<3.0	<0.20	NA	15
	11/3/1998	<5.0	19	88	78	<10	30	19	18	<5.0	<5.0	<5.0	<15	<50	<10	130	<5.0	2300	<40	<50	25	<0.10	<3.0	<0.20	NA	7
	2/10/1999	<2.0	<2.0	36	13	<4.0	7.6	6.1	4.8	<2.0	<2.0	<2.0	<6.0	<20	18	110	<5.0	1700	<40	<50	43	<0.10	<3.0	<0.20	NA	14
	5/13/1999	<5.0	<5.0	<5.0	26	<10	9.4	17	6.8	<5.0	<5.0	<5.0	<15	<50	13	89	<5.0	1400	<40	<50	<20	0.20	<3.0	<0.20	NA	10
	8/5/1999	<5.0	<5.0	96	14	<10	5.5	12	<5.0	<5.0	<5.0	<5.0	<15	<50	160	280	<5.0	1800	97	51	38	<0.10	8.0	0.12	NA	390
	11/2/1999	<5.0	<5.0	43	9.4	<10	<5.0	7.4	<5.0	<5.0	<5.0	<5.0	<15	<50	100	230	<5.0	1700	110	69	37	<0.10	4.8	0.27	NA	660
	2/17/2000	<5.0	<5.0	63	11	<10	<5.0	9.9	<5.0	<5.0	<5.0	<5.0	<15	<50	130	150	<5.0	1400	71	<50	<20	<0.10	<3.0	<0.20	NA	400
	5/8/2000	<2.0	3.0	78	8.4	<4.0	5.0	6.7	2.4	<2.0	<2.0	<2.0	<6.0	<20	1000	220	<5.0	1800	170	83	44	<0.10	<3.0	<0.20	NA	520
	8/3/2000	<2.0	5.4	77	16	<4.0	12.0	12.0	5.1	<2.0	<2.0	<2.0	<6.0	<20	3400	360	<5.0	2100	270	160	96	0.85	9.3	0.81	NA	1300
	1/18/2001	<5.0	6.6	130	20	<10	22.0	22.0	7.1	<5.0	<5.0	<5.0	<15	<50	1900	330	<5.0	2000	260	130	50	0.66	9.4	0.35	NA	1300
	7/11/2001		Not	Sampled	Due to	Dry	Conditions									Not		Sampled		Due	To	Dry	Conditions			
	1/16/2002		Not	Sampled	Due to	Dry	Conditions									Not		Sampled		Due	To	Dry	Conditions			
	7/18/2002		Not	Sampled	Due to	Dry	Conditions									Not		Sampled		Due	To	Dry	Conditions			
	1/28/2003		Not	Sampled	Due to	Dry	Conditions									Not		Sampled		Due	To	Dry	Conditions			
	7/10/2003	<1.0	<1.0	6	1.6	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	570	85	<1.0	430	56	<50	61	<1.4	<3.0	0.31	NA	91
	1/13/2004	<5.0	<5.0	36	<10	<25	6.7	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<120	40	93	<1.0	770	<40	<50	<20	<0.10	<3.0	1	NA	14
	6/28/2004	<5.0	9.8	100	12	<25	37	30	<5.0	<5.0	<5.0	<5.0	<10	<120	130	100	<1.0	1300	65	<50	21	NA	NA	<0.20	NA	190
	1/28/2005	<2.0	11	220	28	<4.0	57	23	7.8	<2.0	<2.0	<2.0	<6.0	<20	760	230	NA	1000	NA	NA	46	NA	NA	0.73	NA	320
	7/30/2005	<1.0	9.9	190	21	<3.0	58	25	8.7	<1.0	<1.0	<1.0	<3.0	<10	890	330	NA	1700	NA	NA	67	NA	NA	0.31	NA	1200
	8/2/2006	<1.0	6.5	110	19	<2.0	32	10	5.4	<1.0	<1.0	<1.0	<3.0	<10	330	240	0.8	910	150	60	43	<0.20	4.1	NA	NA	400
	7/24/2007	<1.0	4.6	39	9.2	<2.0	15	4.0	4.2	<1.0	<1.0	<1.0	<3.0	<10	85	170	<0.50	1100	43	10	<20	NA	NA	0.6	NA	64
	8/23/2008	<1.0	6.8	46	19	<2.0	21	3.9	6.8	<1.0	<1.0	<1.0	<3.0	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/13/2009	<1.0	4.8	30	12	<2.0	16	3.1	7.1	<1.0	<1.0	<1.0	<3.0	<10	310	230	0.65	1400	120	44	32	NA	NA	1.7	NA	300
	10/14/2010		Not	Sampled	Due to	Dry	Conditions									Not		Sampled		Due	To	Dry	Conditions			
	9/19/2011	<1.0	<1.0	4.2	<1.0	<2.0	3.7	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	20	6700	7.7	2300	160	<10	190	NA	NA	1.8	NA	13000
	8/31/2012	<1.0	<1.0	<1.0	<1.0	<2.0	3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	500	620	2.3	600	370	120	150	NA	NA	3.0	NA	990
	9/12/2013	<1.0	1.3	3.4	4.0	<2.0	3.5	<1.0	1.6	<1.0	<1.0	<1.0	<3.0	<10	25	350	<10	1500	160	<10	33	NA	NA	<0.20	NA	810
	8/14/2014	<1.0	<1.0	1.0	<1.0	<2.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	5.2	230	<10	1100	23	<10	34	NA	NA	1.1	NA	310
Remediation Performance Stnd.		1	1500	7	70	5	1	200	2.8	1	1	1000	400	3500	50	1000	1	50	100	50	5000	5	.15	1.1	154	

NA = Not Analyzed DL = Dilution DUP - duplicate

Table 12
Groundwater Quality Summary
Macon/Dockery Site
Richmond County, North Carolina
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Well	Date	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,2-Dichloroethane (ug/L)	Methylene Chloride (ug/L)	Tetrachloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	Chloroform (ug/L)	Bromodichloromethane (ug/L)	Dibromochloromethane (ug/L)	Tribromomethane (ug/L)	Naphthalene (ug/L)	1,2,4-Trimethylbenzene (ug/L)	1,3,5-Trimethylbenzene (ug/L)	Chloromethane (ug/L)	Dichlorodifluoromethane (ug/L)	Trichlorofluoromethane (ug/L)	Methyl tert-butyl ether (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Isopropylbenzene (ug/L)	Methyl acetate (ug/L)	Cyclohexane (ug/L)	Methylcyclohexane (ug/L)	Dichlorodifluoromethane (ug/L)
Upper Macon																															
MW-21	2/14/1996	<1.0	3.1	<1.0	<1.0	<2.0	1.3	<1.0	6.4	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	6.3	<40	<20	<20	<0.30	<3.0	NA	<10	1
	9/2/1996	<1.0	2.1	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<5.0	<40	<20	<20	<0.30	20	NA	<10	1
	7/30/1996	<1.0	<1.0	<1.0	1.2	<2.0	<1.0	<1.0	5.3	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<5.0	<40	<20	<20	<0.30	<3.0	NA	NA	<1.0
	11/7/1996	<1.0	1.5	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<3.0	<10	<10	<50	<5.0	5.1	<40	<20	<20	<0.30	<3.0	NA	NA	11
	2/6/1997	<1.0	1.8	<1.0	<1.0	<2.0	<1.0	<1.0	7.1	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<5.0	<40	<20	<20	<0.30	<3.0	NA	NA	<1.0
	5/13/1997	<1.0	1.3	<1.0	<1.0	<2.0	<1.0	<1.0	7.7	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<5.0	<40	<20	<20	<0.30	<3.0	NA	NA	<1.0
	8/6/1997	<1.0	1.1	<1.0	<1.0	<2.0	<1.0	<1.0	6.4	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<5.0	<40	<20	<20	<0.30	<3.0	NA	NA	<1.0
	11/11/1997	<1.0	1.4	<1.0	<1.0	<2.0	<1.0	<1.0	7	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<5.0	<40	<20	<20	<1.0	<3.0	NA	NA	<1.0
	2/6/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	5.7	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<5.0	<40	<20	<20	<0.30	<3.0	NA	NA	<1.0
	5/7/1998	<1.0	1.4	<1.0	1	<2.0	<1.0	<1.0	6	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<5.0	<40	<20	<20	<0.30	<3.0	NA	NA	<1.0
	8/6/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	10	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<5.0	<40	<20	<20	<0.30	<2.0	NA	NA	<2.0
	11/31/1998	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	8.7	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<5.0	<40	<20	<20	<0.30	<3.0	NA	NA	<1.0
	2/1/1999	<1.0	1.2	<1.0	<1.0	<2.0	<1.0	<1.0	7.6	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<5.0	<40	<20	<20	<0.30	<3.0	NA	NA	<1.0
	5/13/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	9.3	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<5.0	<40	<20	<20	<0.30	3.3	NA	NA	<1.0
	8/6/1999	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	6.9	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<5.0	<40	<20	<20	<0.30	<3.0	NA	NA	<1.0
	11/3/1999	<1.0	1.1	<1.0	1.1	<2.0	<1.0	<1.0	7.5	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<5.0	<40	<20	<20	<0.30	<3.0	NA	NA	<1.0
	2/17/2000	<1.0	<1.0	<1.0	1.9	<2.0	<1.0	<1.0	7.3	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<5.0	<40	<20	<20	<0.30	<3.0	NA	NA	<1.0
	5/9/2000	<1.0	1.3	<1.0	1.9	<2.0	<1.0	<1.0	8.3	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<5.0	<40	<20	<20	<0.30	<3.0	NA	NA	<1.0
	8/2/2000	<1.0	1.4	<1.0	1.7	<2.0	<1.0	<1.0	8.0	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<5.0	<40	<20	<20	<0.30	<3.0	NA	NA	<1.0
	1/18/2001	<1.0	1.7	<1.0	1.6	<2.0	<1.0	<1.0	9.6	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<5.0	<40	<20	<20	<0.30	<3.0	NA	NA	<1.0
	7/11/2001	<1.0	2.4	<1.0	2.0	<2.0	<1.0	1.1	10	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<5.0	<40	<20	<20	<0.30	<3.0	NA	NA	<1.0
	1/15/2002	<1.0	1	<1.0	1.6	<2.0	<1.0	<1.0	10	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	<5.0	<40	<20	<20	<0.30	<3.0	NA	NA	<1.0
	7/30/2002	<1.0	1.2	<1.0	2.1	<2.0	<1.0	<1.0	8.2	<1.0	<1.0	<1.0	<3.0	<10	NOT	ANALYZED	DUE	TO	LAB	LOSS	OF	METALS	SAMPLE	NA	NA	<1.0
	1/28/2003	<1.0	1.1	<1.0	1.6	<2.0	<1.0	<1.0	8.8	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<1.0	<1.0	<40	<20	<20	<0.30	<3.0	NA	NA	<1.0
	7/10/2003	<1.0	1.4	<1.0	2.4	<2.0	<1.0	<1.0	9	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<1.0	<1.0	<40	<20	<20	<0.30	<3.0	NA	NA	<1.0
	1/13/2004	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1
	6/28/2004	<1.0	1.3	<1.0	<2.0	<5.0	<1.0	<1.0	7.1	<1.0	NA	NA	NA	NA	<10	<50	<1.0	14	<40	<20	96	NA	NA	NA	NA	NA	18
	1/28/2005	<1.0	2.0	1.5	2.4	<2.0	1.9	<1.0	7.5	<1.0	<1.0	<1.0	<3.0	<10	<10	NA	<3.0	NA	NA	<20	NA	NA	NA	NA	NA	NA	31
	7/21/2005	<1.0	1.2	<1.0	<1.0	<2.0	1.1	<1.0	6.8	<1.0	<1.0	<1.0	<3.0	<10	12	9.7	NA	9.8	NA	NA	91	NA	NA	NA	NA	NA	18
	8/19/2006	<1.0	1.2	1.1	2.3	<2.0	2.4	<1.0	4.6	<1.0	<1.0	<1.0	<3.0	<10	15	11	<0.5	8.2	13	<3.0	47	NA	NA	NA	NA	NA	<1.0
	7/29/2007	<1.0	1.2	3.3	1.6	<2.0	2.4	<1.0	2.8	<1.0	<1.0	<1.0	<3.0	<10	17	9.3	<0.79	6.7	28	<3.0	63	NA	NA	NA	NA	NA	<1.0
	8/23/2008	<1.0	2.1	13	2.9	<2.0	6.1	<1.0	4.7	<1.0	<1.0	<1.0	<3.0	<10	6.9	8.6	<0.79	<3.0	6.9	<3.0	39	NA	NA	NA	NA	NA	<1.0
	8/13/2009	<1.0	1.7	11	2.1	<2.0	4.6	<1.0	3.3	<1.0	<1.0	<1.0	<3.0	<10	15	9.9	<0.79	6.9	12	<10	37	NA	NA	NA	NA	NA	6.5
	10/6/2010	<1.0	3.3	44	4.1	<2.0	12	1.1	5.6	<1.0	<1.0	<1.0	<3.0	<10	8.7	8.8	<0.79	9.1	9.2	<10	96	NA	NA	NA	NA	NA	15
	5/10/2011	<1.0	41.0	1.2	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	7.3	12	<0.79	31	5.1	<10	72	<0.50	<1.5	<0.28	<0.10	NA
	9/19/2011	<1.0	3.1	43	3.3	<2.0	12	3.5	4.4	<1.0	<1.0	<1.0	<3.0	<10	<7.9	14	<0.79	8.3	<0.79	<10	31	<0.50	<1.5	<0.28	<0.10	12
	5/31/2013	<1.0	2.1	6.5	2.9	<2.0	8.1	2.0	1.3	<1.0	<1.0	<1.0	<3.0	<10	<7.9	10	<0.79	7.1	<0.79	<10	185	NA	NA	NA	NA	NA	12
	9/16/2013	<1.0	3.8	66	3.5	<2.0	11	<1.0	3.9	<1.0	<1.0	<1.0	<3.0	<10	<7.9	8.9	<0.79	<5.0	<0.79	<10	77	<0.50	<1.5	NA	NA	NA	7
	9/16/2014	<1.0	1.4	16	1.3	<2.0	4.7	<1.0	1.3	<1.0	<1.0	<1.0	<3.0	<10	10	17.0	<0.79	12	14	<10	59	<0.50	<1.5	NA	NA	NA	33
Reduction Performance Goal		1	3700	7	76	5	1	300	2.0	1	1	1080	400	3700	50	1680	1	70	180	70	9600	5	17	1.1	154	

NA = Not Analyzed DUP - Duplicate

Table 12
Groundwater Quality Summary
Macon/Dockery Site
Richmond County, North Carolina
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Well	Date	Chloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Methylene Chloride (ug/L)	trans-1,2-Dichloroethene (ug/L)	1,1-Dichloroethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	Trichloroethene (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Acetone (ug/L)	Carbon Disulfide (ug/L)	Methyl Ethyl Ketone (ug/L)	Methyl Isobutyl Ketone (ug/L)	2-Hexanone (ug/L)	Styrene (ug/L)	Xylenes (ug/L)	Naphthalene (ug/L)	1,2,4-Trimethylbenzene (ug/L)	1,3,5-Trimethylbenzene (ug/L)	Tetrachloroethene (ug/L)	Chlorobenzene (ug/L)	Methane (ug/L)	Ethane (ug/L)	Ethene (ug/L)	Iron (mg/L)	Manganese (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
Upper Macon																															
MW 23	2/15/1996	<1.0	2.9	<1.0	5.1	<2.0	<1.0	<1.0	34	<1.0	<1.0	<1.0	<3.0	39	49	230	5.2	1200	<40	130	260	<0.30	28	8.22	<10	1400
	5/2/1996	<1.0	2.8	<1.0	5.6	<2.0	<1.0	<1.0	11	<1.0	<1.0	<1.0	<3.0	<10	39	170	<5.0	980	<40	97	170	<0.30	21	<0.20	<10	340
(DUP)	5/2/1996	<1.0	2.8	<1.0	4.8	<1.0	1.8	<1.0	15	<1.0	<1.0	<1.0	<3.0	<10	<10	<20	<5.0	<5.0	<40	<20	<20	<0.30	<2.0	<0.20	<10	<5.0
	7/30/1996	<1.0	3.1	<1.0	6.3	<2.0	<1.0	<1.0	20	<1.0	<1.0	<1.0	<3.0	<20	<10	<50	<5.0	79	<40	<20	31	<0.30	3.5	<0.20	NA	18
	11/6/1996	<1.0	4.3	<1.0	4.9	<2.0	1.3	<1.0	12	<1.0	<1.0	1	<3.0	<10	<10	<20	<5.0	46	<40	<20	<20	<0.30	<2.0	<0.20	NA	20
	2/4/1997	<1.0	4.9	1.6	6.2	<2.0	2.7	1	16	<1.0	<1.0	<1.0	<3.0	<10	<10	<10	<5.0	52	<40	<20	<10	<0.30	<2.0	<0.20	NA	15
	5/13/1997	<1.0	8.9	3.4	10	<2.0	3.8	<1.0	19	<2.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	41	<40	<20	<20	<0.30	<2.0	0.03	NA	160
	8/6/1997	<1.0	7.3	1.7	7.9	<2.0	2.3	<1.0	14	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	82	<40	<20	4.7	470	<0.20	NA	19
	11/11/1997	<1.0	8.1	3	8.1	<2.0	3.4	<1.0	15	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	41.1	<40	<20	<20	<1.0	<2.0	NA	NA	12
	2/27/1998	<1.0	9.5	2.1	11	<2.0	2.6	1.1	16	<1.0	<1.0	<1.0	<3.0	<10	<10	<20	<5.0	31	<40	<20	<20	<0.30	<2.0	<0.20	NA	<5.0
	5/7/1998	<1.0	10	1.6	7.2	<2.0	3.4	1.2	12	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	36	<40	<20	<20	<0.30	<2.0	<0.20	NA	9
	8/6/1998	<1.0	8.1	<1.0	8.1	<2.0	1.2	1.1	15	<1.0	<1.0	<1.0	<3.0	<10	<10	<20	<5.0	39	<40	<20	<20	<0.30	<2.0	<0.20	NA	9
	11/6/1998	<1.0	15	1.1	7.4	<2.0	1.4	1.4	13	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	130	<40	<20	41	<0.30	<2.0	<0.20	NA	36
	2/10/1999	<1.0	14	1.2	7.5	<2.0	2.1	1.3	18	<1.0	<1.0	<1.0	<3.0	<10	<10	<20	<5.0	60	<40	<20	<20	<0.30	<2.0	<0.20	NA	15
	5/12/1999	<1.0	23	1.1	11	<2.0	2.1	2.1	15	<1.0	<1.0	<1.0	<3.0	<10	17	24	<5.0	470	56	<20	57	<0.30	<2.0	<0.20	NA	110
	8/5/1999	<1.0	18	<1.0	8.9	<2.0	1.2	1.7	7.2	<1.0	<1.0	<1.0	<3.0	<1.0	21	84	<5.0	630	68	<20	74	<0.30	6.2	<0.20	NA	110
	11/3/1999	<1.0	15	1.1	7.6	<2.0	1.6	1.4	7.2	<1.0	<1.0	<1.0	<3.0	<10	13	<20	<5.0	360	<40	<20	47	<0.30	3.6	<0.20	NA	91
	2/17/2000	<1.0	23	1.2	8.7	<2.0	1.6	1.8	6.3	<1.0	<1.0	<1.0	<3.0	<10	<10	<20	<5.0	71	<40	<20	<20	<0.30	<2.0	<0.20	NA	18
	5/9/2000	<1.0	34	1.1	7.3	<2.0	1.9	1.7	7.3	<1.0	<1.0	<1.0	<3.0	<10	<10	<20	<5.0	100	<40	<20	37	<0.30	<2.0	<0.20	NA	24
	8/2/2000	<1.0	18	<1.0	7.3	<2.0	1.4	1.1	6.7	<1.0	<1.0	<1.0	<3.0	<10	19	71	<5.0	300	<40	<20	64	<0.30	4.0	<0.20	NA	130
	1/10/2001	<1.0	16	1.3	7.4	<2.0	1.8	1.1	6.7	<1.0	<1.0	<1.0	<3.0	<10	<10	<20	<5.0	57	<40	<20	<20	<0.30	<2.0	<0.20	NA	27
	7/11/2001	<1.0	6.8	<1.0	3.9	<2.0	1.2	1.4	7.9	<1.0	<1.0	<1.0	<3.0	<10	19	79	<5.0	410	<40	<20	86	<0.30	5.1	<0.20	NA	110
	1/15/2002	<1.0	8.6	<1.0	4.4	<2.0	<1.0	<1.0	8.9	<1.0	<1.0	<1.0	<3.0	<10	<10	<20	<5.0	10	<40	<20	<20	<0.30	<2.0	<0.20	NA	<5.0
	7/30/2002	<1.0	11	1	7.0	<2.0	1.3	<1.0	8.6	<1.0	<1.0	<1.0	<3.0	<10	16	70	<5.0	420	<40	<20	58	<0.30	4.3	<0.20	NA	130
	1/28/2003	<1.0	8.2	<1.0	2.6	<2.0	<1.0	<1.0	2.9	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	33	<40	<20	<20	<0.30	<2.0	<0.20	NA	16
	7/10/2003	<1.0	5.2	<1.0	1.9	<2.0	<1.0	<1.0	4	<1.0	<1.0	<1.0	<3.0	<10	<10	<20	<5.0	58	<40	<20	<20	<0.30	<2.0	<0.20	NA	21
	1/13/2004	<1.0	1.8	1.7	<2.0	<2.0	<1.0	<1.0	2.6	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.20	NA	12
	6/28/2004	<1.0	3.1	<1.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	<10	<20	<1.0	44	<40	<20	<20	<0.30	<2.0	<0.20	NA	18
	1/27/2005	<1.0	4.2	2.0	<2.0	<2.0	1.4	<1.0	1.5	<1.0	<1.0	<1.0	<3.0	<10	<10	<20	NA	33	NA	NA	<20	NA	NA	<0.20	NA	11
	7/31/2005	<1.0	6.7	3.3	1.6	<2.0	1.7	<1.0	1.6	<1.0	<1.0	<1.0	<3.0	<10	<2.0	11	NA	65	NA	NA	<20	NA	NA	<0.20	NA	7.0
	8/2/2006	<1.0	5.1	3.2	1.4	<2.0	1.2	<1.0	1.6	<1.0	<1.0	<1.0	<3.0	<10	<2.0	10	<0.50	26	23	<5.0	<20	<5.0	NA	NA	NA	8.0
	7/29/2007	<1.0	4.6	2.8	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<2.0	12	<0.50	21	11	<5.0	<20	NA	<1.0	NA	NA	<5.0
	8/23/2008	<1.0	3.3	5.1	<1.0	<2.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<2.0	14	<0.5	15	12	<5.0	<20	NA	NA	NA	NA	<5.0
	8/13/2009	<1.0	2.7	5.2	<1.0	<2.0	1.2	<1.0	1.1	<1.0	<1.0	<1.0	<3.0	<10	<2.0	13	<0.5	59	14	<10	<20	NA	NA	NA	NA	24
	10/14/2010	<1.0	2.7	22	1.4	<2.0	5.0	<1.0	1.0	<1.0	<1.0	<1.0	<3.0	<10	9.4	34	<0.50	120	14	<10	33	NA	NA	NA	NA	49
	8/10/2011	<1.0	1.2	7.0	<1.0	<2.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<2.0	25	<0.50	58	15	<10	<20	NA	NA	NA	NA	32
	8/31/2012	<1.0	1.3	7.3	<1.0	<2.0	1.5	<1.0	1.1	<1.0	<1.0	<1.0	<3.0	<10	<2.0	25	<0.50	60	9.8	<10	<20	NA	NA	NA	NA	24
	8/9/2013	<1.0	2.9	22	3.1	<2.0	10	<1.0	2.0	<1.0	<1.0	<1.0	<3.0	<10	<2.0	34	<0.50	12	9.7	<10	<20	NA	NA	<0.20	NA	<5.0
Remediation Performance Stds.		1	3500	5	70	5	1	200	2.0	1	1	1000	400	3700	50	1000	1	70	100	50	3000	5	15	1.1	154	

NA = Not Analyzed DL = Dilution DUP = Duplicate

Table 12
Groundwater Quality Summary
Macon/Dockery Site
Richmond County, North Carolina
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Well ID	Date	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Carbon Tetrachloride (ug/L)	Chloroform (ug/L)	Methylene Chloride (ug/L)	Tetrachloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	Trichloroethene (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	Chloromethane (ug/L)	Bromomethane (ug/L)	Dichlorodifluoromethane (ug/L)	Methyl-t-butyl ether (ug/L)	Vinyl acetate (ug/L)	Tetrahydrofuran (ug/L)	Carbazole (ug/L)	Naphthalene (ug/L)	Acetone (ug/L)	Carbon disulfide (ug/L)	Acetonitrile (ug/L)	Acrylonitrile (ug/L)	Iodomethane (ug/L)
Lower Macon																											
MW 13	2/16/1994	<1.0	89	25	4.9	<5.0	3.7	918	14	<1.0	1.3	<1.0	<3.0	<10	27	550	<5.0	570	<40	61	120	<0.30	17	1.7	<10	910
(DL)	2/16/1994	<1.0	76	20	4.9	<2.0	<1.0	85	11	<1.0	<1.0	<1.0	<3.0	<10	<10	<70	<5.0	<5.0	<40	<70	<20	<0.30	<3.0	<0.30	<10	<2.0
	5/2/1994	<1.0	43	15	<1.0	<2.0	13	47	<2.0	100	<1.0	<1.0	<3.0	<10	20	700	<5.0	1000	<40	70	160	<0.30	20	1.4	<10	2100
	7/20/1995	<2.0	60	24	4	<4.0	<2.0	67	5.2	<2.0	2.5	<2.0	<6.0	<10	27	960	5.5	1500	<40	110	260	0.31	31	0.73	NA	3800
	11/6/1995	1.5	66	17	2.3	<2.0	<1.0	46	4.6	<1.0	1.4	<1.0	<3.0	<10	16	720	<5.0	740	<40	60	110	<0.30	13	<0.30	NA	720
	2/6/1997	<1.0	71	12	3.3	<2.0	1.3	70	5.4	<1.0	1.2	<1.0	<3.0	<10	14	570	<5.0	870	<40	91	120	<0.30	66	0.42	NA	870
	5/12/1997	<2.0	90	20	3.2	<4.0	<2.0	87	6.6	<2.0	<2.0	<2.0	<6.0	<20	14	890	<5.0	320	<40	<20	57	<0.30	6.2	0.53	NA	480
	8/6/1997	<2.0	61	4.2	<2.0	<4.0	<2.0	60	<2.0	<2.0	<2.0	<2.0	<6.0	<20	15	580	<5.0	760	<40	68	140	<0.30	8.7	0.31	NA	1300
	11/11/1997	<5	62	<5	<5	<10	<5	35	<5	<5	<5	<5	<5	<15	<50	11 9	320	<5.0	460	<40	<70	93	<1.0	5.3	<0.30	NA	84
	2/2/1998	<1.0	67	11	1.6	<2.0	<1.0	49	3.6	<1.0	<1.0	<1.0	<3.0	<10	11	310	<5.0	390	<40	<20	52	<0.30	7.1	0.17	NA	120
	5/6/1998	<2.0	35	14	<2.0	<4.0	<2.0	38	4.4	<2.0	<2.0	<2.0	<6.0	<20	<10	140	<5.0	120	<40	<70	44	<0.30	<3.0	<0.20	NA	17
	8/7/1998	<1.0	39	12	<1.0	<2.0	<1.0	40	5.3	<1.0	1	<1.0	<3.0	<10	<10	170	<5.0	150	<40	<70	62	<0.30	<3.0	0.32	NA	17
	11/4/1998	<1.0	34	0.2	<1.0	<2.0	<1.0	27	2.2	<1.0	<1.0	<1.0	<3.0	<10	10	360	<5.0	440	<40	<70	130	<0.30	7.1	0.30	NA	430
	2/10/1999	<1.0	32	3.7	<1.0	<2.0	<1.0	22	3.7	<1.0	<1.0	<1.0	<3.0	<10	27	800	<5.0	1300	<40	100	240	<0.30	27	<0.20	NA	1700
	5/13/1999	<1.0	39	6.4	<1.0	<2.0	<1.0	35	2.2	<1.0	<1.0	<1.0	<3.0	<10	25	990	<5.0	800	<40	80	180	0.30	16	0.70	NA	640
	8/5/1999	<1.0	17	2.6	<1.0	<2.0	<1.0	17	<1.0	<1.0	<1.0	<1.0	<3.0	<10	16	1000	6.6	1400	<40	130	360	<0.30	38	0.25	NA	1400
	11/3/1999	<1.0	11	1.7	<1.0	<2.0	<1.0	12	<1.0	<1.0	<1.0	<1.0	<3.0	<10	58	600	<5.0	770	43	78	580	<0.30	14	0.47	NA	780
	2/14/2000	<1.0	8.5	1.3	<1.0	<2.0	<1.0	9.4	<1.0	<1.0	<1.0	<1.0	<3.0	<10	28	360	<5.0	480	<40	<70	84	<0.30	<3.0	0.22	NA	260
	5/8/2000	<1.0	6.4	1.0	<1.0	<2.0	<1.0	7.1	<1.0	<1.0	<1.0	<1.0	<3.0	<10	30	480	<5.0	580	<40	<70	120	<0.30	7.8	0.36	NA	460
	8/2/2000	<1.0	4.6	<1.0	<1.0	<2.0	<1.0	3.7	<1.0	<1.0	<1.0	<1.0	<3.0	<10	17	370	<5.0	660	<40	<70	100	<0.30	11.0	0.22	NA	990
	1/17/2001	<1.0	1.8	<1.0	<1.0	<2.0	<1.0	2.1	<1.0	<1.0	<1.0	<1.0	<3.0	<10	13	730	<5.0	780	<40	<50	83	<0.30	8.1	0.43	NA	1500
	7/11/2001			Not	Sampled	Due to	Dry	Conditions								Not	Sampled	Due	To	Dry	Conditions						
	1/16/2002			Not	Sampled	Due to	Dry	Conditions								Not	Sampled	Due	To	Dry	Conditions						
	7/29/2002			Not	Sampled	Due to	Dry	Conditions								Not	Sampled	Due	To	Dry	Conditions						
	1/28/2003			Not	Sampled	Due to	Dry	Conditions								Not	Sampled	Due	To	Dry	Conditions						
	7/10/2003	<1.0	4.4	1.9	<1.0	<2.0	<1.0	4.2	<1.0	<2.0	<1.0	<1.0	<3.0	<10	10	170 0	<1.0	180	<40	<70	36.0	<0.54	<3.0	<0.20	NA	44
	1/13/2004	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	1.0	<1.0	<1.0	NA	NA	NA	NA	<10	120 0	<1.0	54	<40	<20	42.0	NA	<3.0	<0.20	NA	<1.0
	6/23/2004	<1.0	1.0	<1.0	<1.0	<5.0	<1.0	1.5	<1.0	<1.0	NA	NA	NA	NA	47	360	3.4	760	<40	67	150	NA	20	<0.20	NA	800
	1/27/2005	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	310	NA	210	NA	NA	28	NA	<3.0	<0.20	NA	110
	7/21/2005	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	15	410	NA	490	NA	NA	83	NA	9.9	<0.20	NA	120
	8/10/2006	<2.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	47	620	5.1	1100	25	90	280	NA	27	0.25	NA	1200
	7/25/2007	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	15	30	0.76	260	6.9	19	45	NA	5.4	0.28	NA	140
	8/23/2008	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	18	480	1.9	450	9.3	31	74	NA	9.7	<0.20	NA	540
Lower Macon	8/26/2009	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	7.4	200	0.77	240	5.6	13	67	NA	4.3	0.2	NA	230
Upper Macon	7/8/2010	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	17	120	<0.20	110	9.6	<10	23	<0.50	<1.0	<0.20	<0.10	32
	10/14/2010	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	17	320	140	<0.20	180	160	<10	<20	<0.50	<1.0	<0.20	<0.10	45
	1/15/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	15	150	120	<0.20	150	35	<10	<20	<0.50	<1.0	<0.20	<0.10	25
	5/10/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	19	90	250	0.67	270	70	11	39	<0.50	3.0	<0.20	<0.10	36
Remediation Performance Stan		1	3700	7	70	5	1	200	2.8	1	1	1000	400	3700	50	1000	1	70	100	50	5000	5	15	11	154	

NA = Not Analy DL = Dilution SUP - Suppose

Table 12
Groundwater Quality Summary
Macon/Dockery Site
Richmond County, North Carolina
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Well ID	Date	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Chloroform (ug/L)	Methylene Chloride (ug/L)	Tetrachloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	Trichloroethene (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	Naphthalene (ug/L)	Acetone (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon Disulfide (ug/L)	Chloroethane (ug/L)	Chloromethane (ug/L)	Dibromochloromethane (ug/L)	Methyl Ethyl Ketone (ug/L)	Styrene (ug/L)	Total Xylenes (ug/L)	Carbon Tetrachloride (ug/L)
Lower Macon																										
MW 22	2/14/1996	<1.0	5.5	6.3	1.4	<2.0	<1.0	3.2	3.1	<2.0	<2.0	<2.0	<6.0	<20	44	270	<5.0	2200	<40	180	240	<0.20	39	NA	<10	720
	5/2/1996	<1.0	3.6	5.3	<1.0	<2.0	1.4	1.7	2.5	<2.0	<2.0	<2.0	<6.0	<20	13	110	<5.0	780	<40	77	96	<0.20	15	NA	<10	230
	7/30/1996	<1.0	2.2	4.4	1.5	<2.0	<1.0	1.8	2.3	<1.0	<1.0	<1.0	<3.0	<10	13	72	<5.0	650	<40	<10	96	<0.20	15	NA	NA	240
	11/6/1996	<1.0	3.1	3.4	<1.0	<2.0	<1.0	1.9	3.4	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	270	<40	<20	39	<0.20	4.3	NA	NA	170
	2/4/1997	<1.0	4.1	5.6	<1.0	<2.0	<1.0	2.7	4.3	<1.0	<1.0	<1.0	<3.0	<10	11	93	<5.0	780	<40	<20	91	<0.20	12	NA	NA	360
	5/13/1997	<1.0	4.4	6.5	<1.0	<2.0	<1.0	2.9	4.7	<1.0	<1.0	<1.0	<3.0	<10	17	67	<5.0	480	<40	<20	67	<0.20	9.3	NA	NA	180
	8/7/1997	<1.0	3.5	4.3	1.1	<2.0	<1.0	2.8	3.1	<1.0	<1.0	<1.0	<3.0	<10	<10	71	<5.0	720	<40	<20	80	<0.20	7.6	NA	NA	340
	11/11/1997	<1.0	3.6	4.2	2.4	<2.0	<1.0	3	4.4	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	245	<40	<20	27.7	<1.0	<3.0	NA	NA	110
	2/2/1998	<1.0	9.4	4.3	3	<2.0	<1.0	2.4	3.6	<1.0	<1.0	<1.0	<3.0	<10	11	79	<5.0	610	<40	<20	61	<0.2	10	NA	NA	330
	5/6/1998	<1.0	3.6	4.4	3.1	<2.0	1.7	2.4	4.2	<1.0	<1.0	<1.0	<3.0	<10	15	100	<5.0	770	<40	<20	83	<0.2	10	NA	NA	290
	8/6/1998	<1.0	7.3	1.3	3.1	<2.0	<1.0	1.5	3.9	<1.0	<1.0	<1.0	<3.0	<10	19	82	<5.0	680	<40	<20	66	<0.20	10	NA	NA	210
	11/4/1998	<1.0	4.7	<1.0	1.8	<2.0	<1.0	<1.0	3.2	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<5.0	310	<40	<20	37	<0.20	<3.0	NA	NA	120
	2/10/1999	<1.0	4	<1.0	1.7	<2.0	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	<3.0	<10	11	83	<5.0	610	<40	<20	61	<0.20	7.1	NA	NA	340
	5/13/1999	<1.0	3.8	<1.0	2.4	<2.0	<1.0	<1.0	2.9	<1.0	<1.0	<1.0	<3.0	<10	11	86	<5.0	660	<40	<20	66	<0.20	8.0	NA	NA	180
	8/9/1999	<1.0	3.9	<1.0	2.2	<2.0	<1.0	<1.0	2.3	<1.0	<1.0	<1.0	<3.0	<10	<10	73	<5.0	480	<40	<20	54	<0.20	6.1	NA	NA	280
	11/3/1999	<1.0	4	<1.0	2.6	<2.0	<1.0	<1.0	2.9	<1.0	<1.0	<1.0	<3.0	<10	11	75	<5.0	720	<40	<20	57	<0.20	7.4	NA	NA	110
	2/14/2000	<1.0	5.4	<1.0	2.4	<2.0	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	<3.0	<10	<10	<30	<5.0	260	<40	<20	<20	<0.20	<3.0	NA	NA	93
	5/6/2000	<1.0	14	<1.0	2.6	<2.0	<1.0	1.3	3.8	<1.0	<1.0	<1.0	<3.0	<10	19	120	<5.0	940	<40	<20	85	<0.20	12.0	NA	NA	290
	8/2/2000	<1.0	13	<1.0	1.7	<2.0	<1.0	1.4	3.2	<1.0	<1.0	<1.0	<3.0	<10	30	220	<5.0	1700	<40	<20	120	180	<0.20	24.0	NA	NA	980
	1/17/2001	<1.0	14	1.9	1.2	<2.0	<1.0	2.0	1.6	<1.0	<1.0	<1.0	<3.0	<10	<10	85	<5.0	410	<40	<20	66	<0.20	6.5	NA	NA	240
	7/20/2001	<1.0	3.7	<1.0	<1.0	<2.0	<1.0	1.5	1	<1.0	<1.0	<1.0	<3.0	<10	10	<50	<5.0	110	<40	<20	<20	<0.20	<3.0	NA	NA	53
	1/15/2002	<2.0	47	<2.0	<2.0	<4.0	<2.0	2.7	<2.0	<2.0	<2.0	<2.0	<6.0	<20	11	81	<5.0	700	<40	<20	51	<0.20	7.1	NA	NA	210
	7/30/2002	<2.0	59	7.3	2.8	<4.0	<2.0	4.7	<2.0	<2.0	<2.0	<2.0	<6.0	<20	<10	<50	<5.0	180	<40	<20	32	<0.20	<3.0	NA	NA	58
	1/28/2003	<2.0	47	5.1	<2.0	<4.0	<2.0	4.3	<2.0	<2.0	<2.0	<2.0	<6.0	<20	<10	<50	<5.0	310	<40	<20	22	<0.20	<3.0	NA	NA	140
	7/10/2003	<1.0	31	3.1	1	<2.0	<1.0	1.8	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	<50	<1.0	44	<40	<20	<20	<0.40	<3.0	NA	NA	22
	1/13/2004	<1.0	5.6	<1.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<20	<10	<50	<1.0	11	<40	<20	<20	NA	<3.0	NA	NA	17
	6/28/2004	<1.0	3.7	<1.0	<2.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<25	12	<30	<1.0	13	<40	<20	44	NA	<3.0	NA	NA	14
	1/20/2005	<1.0	11	1.7	<1.0	<2.0	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<10	NA	NA	200	NA	NA	NA	<0.20	4.6	NA	NA	41
	7/11/2005	<1.0	4.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	6.4	6.7	NA	12	NA	NA	<20	<0.20	<1.5	NA	NA	6.0
	8/19/2005	<1.0	1.9	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<2.0	6.1	<0.5	14	1.7	<2.0	<20	NA	<1.5	NA	NA	7.0
	7/20/2007	<1.0	2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<2.0	16	<0.5	42	7.3	<1.0	<20	NA	<1.5	NA	NA	12
	8/23/2008	<1.0	2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<2.0	<7.0	<0.5	<2.0	1.1	<1.0	<20	NA	<1.5	NA	NA	<2.0
Macon Source	8/12/2009	<1.0	<1.0	1.4	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	6.1	42	0.57	300	4.7	31	37	NA	3.7	NA	NA	150
Suspended on	7/9/2010	<1.0	<1.0	2.1	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<2.0	<7.0	<0.50	5.9	<2.0	<10	<20	NA	<1.5	<0.20	<0.010	37
Date 10, 2010	10/14/2010	<1.0	<1.0	1.9	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<5.0	<7.0	<0.50	6.0	<2.0	<10	<20	NA	<1.5	<0.20	<0.010	26
	1/17/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<2.0	<7.0	<0.50	<2.0	<2.0	<10	<20	NA	<1.5	<0.20	<0.010	20
	5/10/2011	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<10	<2.0	<7.0	<0.50	<2.0	<2.0	<10	<20	NA	<1.5	<0.20	<0.010	15
Remediation Performance Data		1	3500	7	70	5	1	200	2.0	1	1	1000	400	1500	70	1000	1	70	100	70	3500	5	15	1.1	154	

NA = Not Analy DL = Dilution DUP = Duplicate

TABLE 13
Air Quality Summary
Macon/Dockery Site - Richmond County, North Carolina
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Sample Location	Date	Chloroform mg/m3	1,2-Dichloroethene mg/m3	Trichloroethene mg/m3	Toluene mg/m3
VE-01	2/22/1996	<10	<10	<10	<10
	6/5/1996	<10	<10	<10	<10
	7/1/1996	<10	<10	<10	<10
	11/8/1996	<10	<10	<10	<10
	6/23/1997	<10	<10	<10	<10
	11/13/1997	<2.0	2.3	<2.0	<2.0
	6/19/1998	<2.0	<2.0	<2.0	<2.0
	11/4/1998	<2.0	<2.0	<2.0	<2.0
	5/13/1999	<2.0	<2.0	<2.0	<2.0
	11/3/1999	<2.0	<2.0	<2.0	<2.0
	5/8/2000	<1.0	<1.0	<1.0	<1.0
OW-1	2/22/1996	<10	<10	<10	<10
	6/5/1996	<10	<10	<10	<10
	7/1/1996	<10	<10	<10	<10
	11/8/1996	<10	<10	<10	<10
	6/23/1997	<10	<10	<10	<10
	11/13/1997	<2.0	<2.0	<2.0	<2.0
	6/19/1998	<2.0	<2.0	<2.0	<2.0
	11/4/1998	<2.0	<2.0	<2.0	<2.0
	5/13/1999	<2.0	<2.0	<2.0	<2.0
	11/3/1999	<2.0	<2.0	<2.0	<2.0
	5/8/2000	<1.0	<1.0	<1.0	<1.0
OW-3	2/22/1996	<10	80	<10	<10
	6/5/1996	<10	<10	<10	<10
	7/1/1996	230	<10	<10	<10
	11/8/1996	<10	<10	<10	<10
	6/23/1997	<10	<10	<10	<10
	11/13/1997	<2.0	<2.0	<2.0	<2.0
	6/19/1998	<2.0	<2.0	<2.0	<2.0
	11/4/1998	<2.0	<2.0	<2.0	<2.0
	5/13/1999	<2.0	<2.0	<2.0	<2.0
	11/3/1999	<2.0	<2.0	<2.0	<2.0
	5/8/2000	<1.0	<1.0	<1.0	<1.0
OW-5	2/22/1996	<10	380	<10	<10
	6/5/1996	<10	<10	<10	<10
	11/8/1996	<10	<10	<10	<10
	6/23/1997	<10	<10	<10	<10
	11/13/1997	<2.0	<2.0	<2.0	<2.0
	6/19/1998	<2.0	<2.0	<2.0	<2.0
	11/4/1998	<2.0	<2.0	<2.0	<2.0
	5/13/1999	<2.0	<2.0	<2.0	<2.0
	11/3/1999	<2.0	<2.0	<2.0	<2.0
	5/8/2000	<1.0	<1.0	<1.0	<1.0
SVE Exhaust	2/14/1996	<10	<10	<10	45
	2/15/1996	<10	<10	<10	43
	2/16/1996	<10	<10	<10	73

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Air Quality Summary
Macon/Dockery Site - Richmond County, North Carolina
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Sample Location	Date	Chloroform mg/m3	1,2-Dichloroethene mg/m3	Trichloroethene mg/m3	Toluene mg/m3
	4/3/1996	<10	<10	<10	<10
	6/5/1996	<10	<10	<10	<10
	7/1/1996	<10	<10	<10	<10
	8/1/1996	<10	<10	<10	<10
	2/5/1997	<10	<10	<10	<10
	6/23/1997	<10	<10	<10	<10
	8/7/1997	<2.0	<2.0	<2.0	<2.0
	11/13/1997	<2.0	<2.0	<2.0	<2.0
	2/6/1998	<2.0	<2.0	<2.0	<2.0
	5/7/1998	<2.0	<2.0	<2.0	<2.0
	8/7/1998	<2.0	<2.0	<2.0	<2.0
	11/4/1998	<2.0	<2.0	<2.0	<2.0
	2/11/1999	<2.0	<2.0	<2.0	<2.0
	5/13/1999	<2.0	<2.0	<2.0	<2.0
	8/5/1999	<2.0	<2.0	<2.0	<2.0
	11/3/1999	<2.0	<2.0	<2.0	<2.0
	5/8/2000	<1.0	<1.0	<1.0	1.2
	8/3/2000	<1.0	<1.0	<1.0	<1.0
SVE Inlet Line	6/5/1996	57	<10	<10	<10
	7/1/1996	<10	<10	<10	<10

TABLE 13
Air Quality Summary
Macon/Dockery Site - Richmond County, North Carolina
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Sample Location	Date	Chloroform mg/m3	1,2-Dichloroethene mg/m3	Trichloroethene mg/m3	Toluene mg/m3
Upper Dockery Air Stack	2/16/1996	<10	<10	<10	<10
	4/3/1996	<10	<10	<10	<10
	6/5/1996	<10	<10	<10	<10
	7/1/1996	<10	<10	<10	<10
	8/1/1996	<10	<10	<10	<10
	11/8/1996	<10	<10	<10	<10
	2/5/1997	<10	<10	<10	<10
	5/12/1997	<10	<10	<10	<10
	8/7/1997	<2.0	<2.0	<2.0	<2.0
	11/13/1997	<2.0	<2.0	<2.0	<2.0
	2/6/1998	<2.0	<2.0	<2.0	<2.0
	5/7/1998	<2.0	<2.0	<2.0	<2.0
	8/7/1998	<2.0	<2.0	<2.0	<2.0
	11/4/1998	<2.0	<2.0	<2.0	<2.0
	2/11/1999	<2.0	<2.0	<2.0	<2.0
	5/13/1999	<2.0	<2.0	<2.0	<2.0
	8/5/1999	<2.0	<2.0	<2.0	<2.0
	11/3/1999	<2.0	<2.0	<2.0	<2.0
	5/9/2000	<1.0	<1.0	<1.0	<1.0
	8/3/2000	<1.0	<1.0	<1.0	<1.0
	1/18/2001	<1.0	<1.0	<1.0	<1.0
	7/11/2001	<1.0	<1.0	<1.0	<1.0
	1/16/2002	<1.0	<1.0	<1.0	<1.0
	7/31/2002	<1.0	<1.0	<1.0	<1.0
	1/28/2003	System Down - Not Sampled			
	7/16/2003	System Down - Not Sampled			
	1/13/2004	<1.0	<1.0	<1.0	<1.0
	6/28/2004	<1.0	<1.0	<1.0	<1.0
	1/27/2005	<1.0	<1.0	<1.0	<1.0
	8/25/2005	<1.0	<1.0	<1.0	<1.0
	10/30/2005	<1.0	<1.0	<1.0	<1.0
	1/28/2006	<1.0	<1.0	<1.0	<1.0
	4/30/2006	<1.0	<1.0	<1.0	<1.0
	8/2/2006	<1.0	<1.0	<1.0	<1.0
	10/29/2006	<1.0	<1.0	<1.0	<1.0
	1/27/2007	<1.0	<1.0	<1.0	<1.0
	4/29/2007	<1.0	<1.0	<1.0	<1.0
	7/30/2007	<1.0	<1.0	<1.0	<1.0
	10/28/2007	<1.0	<1.0	<1.0	<1.0
	2/3/2008	<1.0	<1.0	<1.0	<1.0
	6/3/2008	<1.0	<1.0	<1.0	<1.0
	2/19/2009	<1.0	<1.0	<1.0	<1.0
	8/13/2009	<1.0	<1.0	<1.0	<1.0
	1/29/2010	<1.0	<1.0	<1.0	<1.0
	1/31/2011	<1.0	<1.0	<1.0	<1.0
	2/22/2012	<1.0	<1.0	<1.0	<1.0
	9/10/2013	<1.0	<1.0	<1.0	<1.0

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Air Quality Summary
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Sample Location	Date	Chloroform mg/m3	1,2-Dichloroethene mg/m3	Trichloroethene mg/m3	Toluene mg/m3
Lower Dockery Air Stack	4/3/1996	<10	<10	<10	<10
	8/1/1996	<10	<10	<10	<10
	11/8/1996	<10	<10	<10	<10
	5/12/1997	<10	<10	<10	<10
	11/13/1997	<2.0	<2.0	<2.0	<2.0
	2/6/1998	<2.0	<2.0	<2.0	<2.0
	5/7/1998	<2.0	<2.0	<2.0	<2.0
	8/7/1998	<2.0	<2.0	<2.0	<2.0
	11/4/1998	<2.0	<2.0	<2.0	<2.0
	2/11/1999	<2.0	<2.0	<2.0	<2.0
	5/13/1999	<2.0	<2.0	<2.0	<2.0
	8/5/1999	<2.0	<2.0	<2.0	<2.0
	11/3/1999	<2.0	<2.0	<2.0	<2.0
	5/9/2000	<1.0	<1.0	<1.0	<1.0
	8/3/2000	<1.0	<1.0	<1.0	<1.0
	1/00/01	System Down - Not Sampled			
	4/24/2001	<1.0	<1.0	<1.0	<1.0
	7/11/2001	System Down - Not Sampled			
	7/31/2002	System Down - Not Sampled			
	1/28/2003	System Down - Not Sampled			
	7/16/2003	<1.0	<1.0	<1.0	<1.0
	1/13/2004	<1.0	<1.0	<1.0	<1.0
	6/28/2004*	Remediation System Suspended - Sample Not Collected			
	1/27/2005*	Remediation System Suspended - Sample Not Collected			
	8/25/2005	Remediation System Suspended - Sample Not Collected			
	10/30/2005	Remediation System Suspended - Sample Not Collected			
	1/30/2006	Remediation System Suspended - Sample Not Collected			
	4/30/2006	Remediation System Suspended - Sample Not Collected			
	8/2/2006	Remediation System Suspended - Sample Not Collected			
	10/29/2006	Remediation System Suspended - Sample Not Collected			
	1/27/2007	Remediation System Suspended - Sample Not Collected			
	4/29/2007	Remediation System Suspended - Sample Not Collected			
	7/30/2007	Remediation System Suspended - Sample Not Collected			
	10/28/2007	Remediation System Suspended - Sample Not Collected			
	2/3/2008	Remediation System Suspended - Sample Not Collected			
	6/3/2008	Remediation System Suspended - No Future Samples Collected			

TABLE 13
Air Quality Summary
Macon/Dockery Site - Richmond County, North Carolina
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Sample Location	Date	Chloroform mg/m3	1,2-Dichloroethene mg/m3	Trichloroethene mg/m3	Toluene mg/m3
Macon Source Air Stack	2/16/1996	<10	<10	<10	<10
	4/3/1996	<10	<10	<10	<10
	5/3/1996	<10	<10	<10	<10
	6/5/1996	50	<10	<10	<10
	7/1/1996	<10	<10	<10	<10
	8/1/1996	<10	<10	<10	<10
	11/8/1996	<10	<10	<10	<10
	2/5/1997	<10	<10	<10	<10
	5/12/1997	<10	<10	<10	<10
	8/7/1997	<2.0	<2.0	<2.0	<2.0
	11/13/1997	<2.0	<2.0	<2.0	<2.0
	2/6/1998	<2.0	<2.0	<2.0	<2.0
	5/7/1998	<2.0	<2.0	<2.0	<2.0
	8/7/1998	<2.0	<2.0	<2.0	<2.0
	11/4/1998	<2.0	<2.0	<2.0	<2.0
	2/11/1999	<2.0	<2.0	<2.0	<2.0
	5/13/1999	<2.0	<2.0	<2.0	<2.0
	8/5/1999	<2.0	<2.0	<2.0	<2.0
	11/3/1999	<2.0	<2.0	<2.0	<2.0
	2/17/2000	<2.0	<2.0	<2.0	<2.0
	5/8/2000	<1.0	<1.0	<1.0	<1.0
	8/2/2000	<1.0	<1.0	<1.0	<1.0
	1/18/2001	<1.0	<1.0	<1.0	<1.0
	7/11/2001	<1.0	<1.0	<1.0	<1.0
	1/16/2002	<1.0	<1.0	<1.0	<1.0
	7/31/2002	<1.0	<1.0	<1.0	<1.0
	1/28/2003	System Down - Not Sampled			
	7/16/2003	<1.0	<1.0	<1.0	<1.0
	1/13/2004	<1.0	<1.0	<1.0	<1.0
	6/28/2004	<1.0	1.2	<1.0	<1.0
	1/27/2005	<1.0	<1.0	<1.0	<1.0
	8/25/2005	<1.0	<1.0	<1.0	<1.0
	10/30/2005	<1.0	<1.0	<1.0	<1.0
	1/28/2006	<1.0	<1.0	<1.0	<1.0
	4/30/2006	<1.0	<1.0	<1.0	<1.0
	8/2/2006	<1.0	<1.0	<1.0	<1.0
	10/29/2006	<1.0	<1.0	<1.0	<1.0
	1/27/2007	<1.0	<1.0	<1.0	<1.0
	4/29/2007	<1.0	<1.0	<1.0	<1.0
	7/30/2007	<1.0	<1.0	<1.0	<1.0
	10/28/2007	<1.0	<1.0	<1.0	<1.0
	2/3/2008	<1.0	<1.0	<1.0	<1.0
	6/3/2008	<1.0	<1.0	<1.0	<1.0
	2/19/2009	<1.0	<1.0	<1.0	<1.0
	8/13/2009	<1.0	<1.0	<1.0	<1.0
	1/29/2010	<1.0	<1.0	<1.0	<1.0
	1/31/2011	<1.0	<1.0	<1.0	<1.0
	2/22/2012	<1.0	<1.0	<1.0	<1.0
	9/10/2013	<1.0	<1.0	<1.0	<1.0

TABLE 13
Air Quality Summary
Macon/Dockery Site - Richmond County, North Carolina
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Sample Location	Date	Chloroform mg/m3	1,2-Dichloroethene mg/m3	Trichloroethene mg/m3	Toluene mg/m3
U/L Macon Air Stack	2/16/1996	<10	<10	<10	<10
	5/3/1996	<10	<10	<10	<10
	6/5/1996	<10	<10	<10	<10
	7/1/1996	850	<10	29	<10
	8/1/1996	<10	<10	<10	<10
	11/8/1996	<10	<10	<10	<10
	2/5/1997	<10	<10	<10	<10
	5/12/1997	<10	<10	<10	<10
	8/7/1997	<2.0	<2.0	<2.0	<2.0
	11/13/1997	<2.0	<2.0	<2.0	<2.0
	2/6/1998	<2.0	<2.0	<2.0	<2.0
	5/7/1998	<2.0	<2.0	<2.0	<2.0
	8/7/1998	<2.0	<2.0	<2.0	<2.0
	11/4/1998	NS	NS	NS	NS
	2/11/1999	<2.0	<2.0	<2.0	<2.0
	5/13/1999	<2.0	<2.0	<2.0	<2.0
	8/5/1999	<2.0	<2.0	<2.0	<2.0
	11/3/1999	<2.0	<2.0	<2.0	<2.0
	2/17/2000	<2.0	<2.0	<2.0	<2.0
	5/8/2000	<1.0	<1.0	<1.0	<1.0
	8/2/2000	<1.0	<1.0	<1.0	<1.0
	1/10/2001	System Down - Not Sampled			
	4/24/2001	<1.0	<1.0	<1.0	<1.0
	7/11/2001	<1.0	<1.0	<1.0	<1.0
	1/16/2002	<1.0	<1.0	<1.0	<1.0
	7/31/2002	NOT	SAMPLED	SYSTEM	DOWN
	1/28/2003	<1.0	<1.0	<1.0	1.3
	7/16/2003	<1.0	<1.0	<1.0	<1.0
	1/13/2004	<1.0	<1.0	<1.0	<1.0
	6/28/2004	System Down - Not Sampled			
	1/27/2005	<1.0	<1.0	<1.0	<1.0
	8/25/2005	<1.0	<1.0	<1.0	<1.0
	10/30/2005	<1.0	<1.0	<1.0	<1.0
	1/28/2006	<1.0	<1.0	<1.0	<1.0
	4/30/206	<1.0	<1.0	<1.0	<1.0
	8/2/2006	<1.0	<1.0	<1.0	<1.0
	10/29/2006	<1.0	<1.0	<1.0	<1.0
	1/27/2007	<1.0	<1.0	2.8	<1.0
	4/29/2007	<1.0	<1.0	<1.0	<1.0
	7/30/2007	<1.0	<1.0	<1.0	<1.0
	10/28/2007	System Down - Not Sampled			
	2/3/2008	<1.0	<1.0	<1.0	<1.0
	6/3/2008	System Down - Not Sampled			
	2/19/2009	<1.0	<1.0	<1.0	<1.0
	8/13/2009	<1.0	<1.0	<1.0	<1.0
	1/29/2010	<1.0	<1.0	<1.0	<1.0
	1/31/2011	<1.0	<1.0	<1.0	<1.0
	2/22/2012	<1.0	<1.0	<1.0	<1.0
	9/10/2013	<1.0	<1.0	<1.0	<1.0

TABLE 13
Air Quality Summary
Macon/Dockery Site - Richmond County, North Carolina
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Sample Location	Date	Chloroform mg/m3	1,2-Dichloroethene mg/m3	Trichloroethene mg/m3	Toluene mg/m3
Property Line	2/16/1996	<10	<10	<10	<10
	4/3/1996	<10	<10	<10	<10
	5/3/1996	<10	<10	<10	<10
	6/5/1996	<10	<10	<10	<10
	7/1/1996	<10	<10	<10	<10
	8/1/1996	<10	<10	<10	<10
	11/8/1996	<10	<10	<10	<10
	2/5/1997	<10	<10	<10	<10
	5/12/1997	<10	<10	<10	<10
	8/7/1997	<2.0	<2.0	<2.0	<2.0
	11/13/1997	<2.0	<2.0	<2.0	<2.0
	2/6/1998	<2.0	<2.0	<2.0	<2.0
	5/7/1998	<2.0	<2.0	<2.0	<2.0
	8/7/1998	<2.0	<2.0	<2.0	<2.0
	11/4/1998	<2.0	<2.0	<2.0	<2.0
	2/11/1999	<2.0	<2.0	<2.0	<2.0
	5/13/1999	<2.0	<2.0	<2.0	<2.0
	8/5/1999	<2.0	<2.0	<2.0	<2.0
	11/3/1999	<2.0	<2.0	<2.0	<2.0
	2/17/2000	<2.0	<2.0	<2.0	<2.0
	5/8/2000	<1.0	<1.0	<1.0	<1.0
	8/3/2000	**Not analyzed, Tedlar bag deflated during sample shipment**			
	1/18/2001	<1.0	<1.0	<1.0	<1.0
	7/11/2001	<1.0	<1.0	<1.0	<1.0
	1/16/2002	<1.0	<1.0	<1.0	<1.0
	7/31/2002	<1.0	<1.0	<1.0	<1.0
	1/28/2003	<1.0	<1.0	<1.0	<1.0
	7/16/2003	<1.0	<1.0	<1.0	<1.0
	1/13/2004	<1.0	<1.0	<1.0	<1.0
	6/28/2004	<1.0	<1.0	<1.0	<1.0
	1/27/2005	<1.0	<1.0	<1.0	<1.0
	8/25/2005	<1.0	<1.0	<1.0	<1.0
	10/30/2005	<1.0	<1.0	<1.0	<1.0
	1/28/2006	<1.0	<1.0	<1.0	<1.0
	4/30/2006	<1.0	<1.0	<1.0	<1.0
	8/2/2006	<1.0	<1.0	<1.0	<1.0
	10/29/2006	<1.0	<1.0	<1.0	<1.0
	1/27/2007	<1.0	<1.0	1.2	<1.0
	4/29/2007	<1.0	<1.0	<1.0	<1.0
	7/30/2007	<1.0	<1.0	<1.0	<1.0
	10/28/2007	<1.0	<1.0	<1.0	<1.0
	2/3/2008	<1.0	<1.0	<1.0	<1.0
	6/3/2008	<1.0	<1.0	<1.0	<1.0
	2/19/2009	<1.0	<1.0	<1.0	<1.0
	8/13/2009	<1.0	<1.0	<1.0	<1.0
	1/29/2010	<1.0	<1.0	<1.0	<1.0
	1/31/2011	<1.0	<1.0	<1.0	<1.0
	2/22/2012	<1.0	<1.0	<1.0	<1.0
	9/10/2013	<1.0	<1.0	<1.0	<1.0

TABLE 14
SUMMARY OF MASS VOC REMOVAL ESTIMATES
MACON/DOCKERY SITE
RICHMOND COUNTY, NORTH CAROLINA

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System	Month of influent analysis	Flow Volume for Period (gallons)	Average Total VOC Concentration (ug/L)	Pounds of VOC Removed For Period (Pounds)	Cumulative VOCs Removed (Pounds)
Upper Dockery	Mar-96	400,155	196	0.65	0.65
	Apr-96	286,151	210	0.50	1.15
	May-96	66,826	177	0.10	1.25
	Jun-96	97,350	120	0.10	1.35
	Jul-96	163,426	108	0.15	1.49
	Aug-96	218,330	284	0.52	2.01
	Sep-96	149,420	284	0.35	2.36
	Oct-96	140,181	284	0.33	2.70
	Nov-96	438,013	294	1.07	3.77
	Dec-96	161,903	294	0.40	4.17
	Jan-97	294,071	294	0.72	4.89
	Feb-97	267,598	131	0.29	5.18
	Mar-97	250,088	131	0.27	5.45
	Apr-97	276,556	131	0.30	5.76
	May-97	289,938	76	0.18	5.94
	Jun-97	135,575	76	0.09	6.03
	Jul-97	99,896	76	0.06	6.09
	Aug-97	70,967	54	0.03	6.12
	Sep-97	56,256	54	0.03	6.15
	Oct-97	277,505	54	0.12	6.27
	Nov-97	143,168	108	0.13	6.40
	Dec-97	78,332	108	0.07	6.47
	Jan-98	103,968	108	0.09	6.56
	Feb-98	296,588	99.3	0.25	6.81
	Mar-98	326,525	99.3	0.27	7.08
	Apr-98	419,475	99.3	0.35	7.43
	May-98	440,446	244	0.90	8.32
	Jun-98	200,192	244	0.41	8.73
	Jul-98	337,048	244	0.69	9.42
	Aug-98	432,719	146.4	0.53	9.94
	Sep-98	411,677	146.4	0.50	10.45
	Oct-98	439,378	146.4	0.54	10.98
	Nov-98	362,588	161	0.49	11.47
12-1-98 to 12-31-98	Dec-98	500,450	161	0.67	12.14
12-31-98 to 1-27-99	Jan-99	552,796	161	0.74	12.88
1-27-99 to 2-23-99	Feb-99	524,380	95	0.42	13.30
2-23-99 to 3-30-99	Mar-99	614,841	95	0.49	13.79
3-30-99 to 4-29-99	Apr-99	571,148	95	0.45	14.24
4-29-99 to 5-27-99	May-99	524,349	139.4	0.61	14.85

TABLE 14
SUMMARY OF MASS VOC REMOVAL ESTIMATES
MACON/DOCKERY SITE
RICHMOND COUNTY, NORTH CAROLINA

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System	Month of Influent analysis	Flow Volume for Period (gallons)	Average Total VOC Concentration (ug/L)	Pounds of VOC Removed For Period (Pounds)	Cumulative VOCs Removed (Pounds)
UPPER DOCKERY CONTINUED					
5-27-99 to 6-24-99	Jun-99	431,742	139.4	0.50	15.35
6-24-99 to 7-29-99	Jul-99	392,518	139.4	0.46	15.81
7-29-99 to 8-27-99	Aug-99	190,407	138	0.22	16.03
8-27-99 to 9-27-99	Sep-99	303,910	138	0.35	16.37
9-27-99 to 10-29-99	Oct-99	364,213	138	0.42	16.79
10-29-99 to 11-24-99	Nov-99	277,055	181	0.42	17.21
11-24-99 to 12-30-99	Dec-99	389,943	181	0.59	17.80
12-30-99 to 1-21-00	Jan-00	236,733	181	0.36	18.16
1-21-99 to 2-25-00	Feb-00	0	181	0.00	18.16
3-1-00 to 3-31-00	Mar-00	176,609	181	0.27	18.42
3-31-00 to 4-27-00	Apr-00	164,914	181	0.25	18.67
4-27-00 to 5-26-00	May-00	419,400	72.9	0.25	18.93
5-26-00 to 6-30-00	Jun-00	104,658	72.9	0.06	18.99
6-30-00 to 7-26-00	Jul-00	80,000	72.9	0.05	19.04
7-26-00 to 8-29-00	Aug-00	133,575	72.0	0.08	19.12
8-29-00 to 9-25-00	Sep-00	129,206	72.0	0.08	19.20
9-25-00 to 10-26-00	Oct-00	148,404	72.0	0.09	19.29
10-26-00 to 1-26-01	Jan-01	615,761	88.0	0.45	19.74
1-26-01 to 4-20-01	Apr-01	526,427	88.0	0.39	20.12
4-20-01 to 7-19-01	Jul-01	560,547	101.9	0.48	20.60
7-19-01 to 10-18-01	Oct-01	784,060	101.9	0.67	21.27
11-8-01 to 02-08-02	Jan-02	529,867	91.0	0.40	21.67
5-1-02 to 7-31-02	Jul-02	78,922	150.0	0.10	21.77
8/1/02 to 10/31/02	Oct-02	101,740	150.0	0.13	21.90
11/1/02 to 1/31/03	Jan-03	53,345.2	150.0	0.07	21.96
2/1/03 to 4/30/03	Apr-03	127,873.0	150.0	0.16	22.12
5/1/03 to 7/31/03	Jul-03	60,516.0	179.7	0.09	22.21
8/1/03 to 10/31/03	Oct-03	1,097,205.4	179.7	1.64	23.86
11/1/03 to 1/31/04	Jan-04	681,199.0	133.3	0.76	24.61
2/1/04 to 4/30/04	Jan-04	521,945.0	133.3	0.58	25.19
5/1/04 to 07/31/04	Jan-04	637,264.0	133.3	0.71	25.90
07/31/04 to 10/31/04	Jan-04	617,862.0	133.3	0.69	26.59

TABLE 14
SUMMARY OF MASS VOC REMOVAL ESTIMATES
MACON/DOCKERY SITE
RICHMOND COUNTY, NORTH CAROLINA

UPPER DOCKERY CONTINUED					
11/01/04 to 01/31/05	Jan-05	708,874.0	115.0	0.68	27.27
2/1/05 to 04/30/05	Jan-05	910,315.0	115.0	0.87	28.14
5/1/05 to 7/31/05	Aug-05	508,556.0	99.3	0.42	28.56
8/1/05 to 10/31/05	Aug-05	493,146.0	99.3	0.41	28.97
11/1/05 to 01/31/06	Jan-06	1,033,862	128.9	1.11	30.08
2/1/06 to 4/30/06	Jan-06	1,427,828	128.9	1.53	31.62
5/1/06 to 7/31/06	Aug-06	856,310	159.0	1.14	32.75
8/1/06 to 10/27/06	Aug-06	1,158,863	159.0	1.54	34.29
10/27/06 to 01/27/07	Jan-07	1,600,222	103.0	1.37	35.66
1/27/07 to 4/28/07	Jan-07	1,852,759	103.0	1.59	37.25
4/28/07 to 7/29/07	Jul-07	1,625,766	42.0	0.57	37.82
7/29/07 to 10/28/07	Jul-07	1,158,863	42.0	0.41	38.23
10/28/07 to 02/03/08	Feb-08	1,667,261	63.0	0.88	39.10
2/3/08 to 4/27/08	Feb-08	1,404,308	63.0	0.74	39.84
4/27/08 to 7/29/08	Feb-08	1,572,952	63.0	0.83	40.67
7/29/08 to 10/28/08	Aug-08	890,924	51.0	0.38	41.05
10/28/08 to 1/31/09	Aug-08	1,076,142	51.0	0.46	41.50
1/31/09 to 4/28/09	Feb-09	1,308,800	68.0	0.74	42.25
4/28/09 to 7/30/09	Feb-09	1,504,209	68.0	0.85	43.10
7/30/09 to 10/29/09	Aug-09	1,741,585	65.0	0.94	44.04
10/29/09 to 01/31/10	Aug-09	1,528,220	65.0	0.83	44.87
01/31/10 to 4/29/10	Jan-10	1,033,832	141.0	1.22	46.09
4/29/10 to 7/30/10	Jan-10	1,567,225	141.0	1.84	47.93
7/30/10 to 10/29/10	Oct-10	1,284,968	86.0	0.92	48.85
10/29/10 to 1/31/11	Oct-10	1,478,575	86.0	1.06	49.91
01/31/11 to 4/29/11	Jan-11	837,469	66.0	0.46	50.37
4/29/11 to 7/30/11	Jan-11	1,011,573	66.0	0.56	50.93
7/30/11 to 10/29/11	Sep-11	1,228,392	70.0	0.72	51.64
10/29/11 to 1/31/12	Sep-11	1,413,956	70.0	0.83	52.47
01/31/12 to 4/29/12	Feb-12	1,637,071	58.0	0.79	53.26
4/29/12 to 7/30/12	Feb-12	1,436,527	58.0	0.69	53.95
7/30/12 to 10/29/12	Aug-12	971,802	68.0	0.55	54.51
10/29/12 to 1/31/13	Aug-12	1,473,192	68.0	0.84	55.34
01/31/13 to 4/29/13	Apr-13	1,207,870	54.0	0.54	55.88
4/29/13 to 7/30/13	Apr-13	977,520	54.0	0.44	56.32
7/30/13 to 10/29/13	Sep-13	1,151,898	67.0	0.64	56.97
10/29/13 to 1/31/14	Sep-13	1,072,576	67.0	0.60	57.57
01/31/14 to 4/29/14	Apr-14	1,127,487	74.0	0.70	58.26
4/29/14 to 7/30/14	Apr-14	1,470,580	74.0	0.91	59.17

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SUMMARY OF MASS VOC REMOVAL ESTIMATES
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System	Month of influent analysis	Flow Volume for Period (gallons)	Average Total VOC Concentration (ug/L)	Pounds of VOC Removed For Period (Pounds)	Cumulative VOCs Removed (Pounds)
Lower Dockery	Mar-96	328,448	200	0.55	0.55
	Apr-96	191,090	150	0.24	0.79
	May-96	245,715	148	0.30	1.09
	Jun-96	8,619	152	0.01	1.10
	Jul-96	151,827	152	0.19	1.30
	Aug-96	126,232	170	0.18	1.47
	Sep-96	63,833	170	0.09	1.56
	Oct-96	460,379	170	0.65	2.22
	Nov-96	183,210	140.8	0.22	2.43
	Dec-96	137,594	140.8	0.16	2.59
	Jan-97	286,202	140.8	0.34	2.93
	Feb-97	90,912	140.8	0.11	3.04
	Mar-97	277,823	110	0.25	3.29
	Apr-97	180,560	110	0.17	3.46
	May-97	684,855	116	0.66	4.12
	Jun-97	501,987	116	0.49	4.60
	Jul-97	581,027	116	0.56	5.17
	Aug-97	414,199	84	0.29	5.46
	Sep-97	481,049	84	0.34	5.79
	Oct-97	457,804	84	0.32	6.11
	Nov-97	308,483	62	0.16	6.27
	Dec-97	272,079	62	0.14	6.41
	Jan-98	788,548	62	0.41	6.82
	Feb-98	123,013	57.9	0.06	6.88
	Mar-98	287,027	57.9	0.14	7.02
	Apr-98	452,535	57.9	0.22	7.24
	May-98	141,938	56.8	0.07	7.30
	Jun-98	453,014	56.8	0.21	7.52
	Jul-98	504,860	56.8	0.24	7.76
	Aug-98	453,131	62.2	0.23	7.99
	Sep-98	591,481	62.2	0.31	8.30
	Oct-98	471,729	62.2	0.24	8.54
	Nov-98	642,213	52.6	0.28	8.83
12-1-98 to 12-31-98	Dec-98	415,550	52.6	0.18	9.01
12-31-98 to 1-27-99	Jan-99	361,051	52.6	0.16	9.17
1-27-99 to 2-23-99	Feb-99	522,107	35.2	0.15	9.32
2-23-99 to 3-30-99	Mar-99	622,194	35.2	0.18	9.50
3-30-99 to 4-28-99	Apr-99	704,282	35.2	0.21	9.71

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SUMMARY OF MASS VOC REMOVAL ESTIMATES
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RICHMOND COUNTY, NORTH CAROLINA
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System	Month of Influent analysis	Flow Volume for Period (gallons)	Average Total VOC Concentration (ug/L)	Pounds of VOC Removed For Period (Pounds)	Cumulative VOCs Removed (Pounds)
LOWER DOCKERY CONTINUED					
4-29-99 to 5-27-99	May-99	581,688	47	0.23	9.94
5-27-99 to 6-24-99	Jun-99	427,805	47	0.17	10.11
6-24-99 to 7-29-99	Jul-99	473,998	47	0.19	10.29
7-29-99 to 8-27-99	Aug-99	226,628	36.9	0.07	10.36
8-27-99 to 9-27-99	Sep-99	459,303	36.9	0.14	10.50
9-27-99 to 10-29-99	Oct-99	591,217	36.9	0.18	10.69
10-29-99 to 11-24-99	Nov-99	464,502	22	0.09	10.77
11-24-99 to 12-30-99	Dec-99	447,951	22	0.08	10.85
12-30-99 to 1-21-00	Jan-00	503,520	22	0.09	10.95
1-21-00 to 02-25-00	Feb-00	95,167	22	0.02	10.96
3-1-00 to 3-31-00	Mar-00	235,556	22	0.04	11.01
3-31-00 to 4-27-00	Apr-00	212,338	22	0.04	11.05
4-27-00 to 5-26-00	May-00	485,789	30.3	0.12	11.17
5-26-00 to 6-30-00	Jun-00	382,997	30.3	0.10	11.27
6-30-00 to 7-26-00	Jul-00	500,849	30.3	0.13	11.39
7-26-00 to 8-29-00	Aug-00	284,722	37.5	0.09	11.48
8-29-00 to 9-25-00	Sep-00	587,633	37.5	0.18	11.66
9-25-00 to 10-26-00	Oct-00	512,427	37.5	0.16	11.82
10-26-00 to 1-26-01	Jan-01	769,926	37.5	0.24	12.07
1-26-01 to 4-20-01	Apr-01	125,989	37.5	0.04	12.10
4-20-01 to 7-19-01	Jul-01	927,723	37.5	0.29	12.39
7-19-01 to 10-18-01	Oct-01	162,133	37.5	0.05	12.45
11-06-01 to 02-08-02	Jan-02	1,705	37.5	0.00	12.45
5-1-02 to 7-31-02	Jul-02	577,048	37.5	0.18	12.63
8/1/02 to 10/31/02	Oct-02	160,412	37.5	0.05	12.68
11/1/02 to 1/31/03	Jan-03	7,031	37.5	0.00	12.68
11/1/02 to 3/14/03	Mar-03	10,624	28.7	0.00	12.68
2/1/03 to 4/30/03	Apr-03	513,285	28.7	0.12	12.80
5/1/03 to 7/31/03	Jul-03	1,042,935.4	9.9	0.09	12.89
8/1/03 to 10/31/03	Oct-03	218,037.103	9.9	0.02	12.91
11/1/03 to 1/31/04	Jan-04	659,533.5	6.5	0.04	12.94
*2/1/04 to 3/19/04	Apr-04	553,193.290	6.5	0.03	12.97

Used October 2000 influent analytical data to calculate mass removal estimates for period of 10-26-00 to 1-26-01 due to system operational problems.

*Lower Dockery groundwater remediation system shut down on 3/19/04

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SUMMARY OF MASS VOC REMOVAL ESTIMATES
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System	Month of Influent analysis	Flow Volume for Period (gallons)	Average Total VOC Concentration (ug/L)	Pounds of VOC Removed For Period (Pounds)	Cumulative VOCs Removed (Pounds)
Macon Source Area	Mar-96	426,083	55	0.20	0.20
	Apr-96	364,772	61	0.19	0.39
	May-96	257,720	41	0.09	0.47
	Jun-96	114,048	60	0.06	0.53
	Jul-96	202,477	43	0.07	0.60
	Aug-96	207,503	61	0.11	0.71
	Sep-96	209,649	61	0.11	0.82
	Oct-96	101,512	61	0.05	0.87
	Nov-96	116,354	42.6	0.04	0.91
	Dec-96	137,045	42.6	0.05	0.96
	Jan-97	146,036	42.6	0.05	1.01
	Feb-97	215,730	63.9	0.11	1.12
	Mar-97	223,222	63.9	0.12	1.24
	Apr-97	253,167	63.9	0.13	1.38
	May-97	223,177	82	0.15	1.53
	Jun-97	234,589	82	0.16	1.69
	Jul-97	117,736	82	0.08	1.77
	Aug-97	50,248	124.9	0.05	1.82
	Sep-97	36,264	124.9	0.04	1.86
	Oct-97	70,207	124.9	0.07	1.93
	Nov-97	102,326	122.5	0.10	2.04
	Dec-97	114,452	122.5	0.12	2.16
	Jan-98	178,387	122.5	0.18	2.34
	Feb-98	178,387	201.6	0.30	2.64
	Mar-98	145,526	201.6	0.24	2.88
	Apr-98	600,075	201.6	1.01	3.89
	May-98	410,905	139.6	0.48	4.37
	Jun-98	431,360	139.6	0.50	4.87
	Jul-98	329,835	139.6	0.38	5.25
	Aug-98	473,093	142	0.56	5.82
	Sep-98	513,868	142	0.61	6.42
	Oct-98	493,849	142	0.58	7.01
	Nov-98	498,670	203	0.84	7.85
12-1-98 to 12-31-98	Dec-98	371,824	203	0.63	8.48
12-31-98 to 1-27-99	Jan-99	337,877	203	0.57	9.05

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RICHMOND COUNTY, NORTH CAROLINA
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System	Month of influent analysis	Flow Volume for Period (gallons)	Average Total VOC Concentration (ug/L)	Pounds of VOC Removed For Period (Pounds)	Cumulative VOCs Removed (Pounds)
MACON SOURCE AREA CONTINUED					
1-27-99 to 2-23-99	Feb-99	384,124	499	1.60	10.65
2-23-99 to 3-30-99	Mar-99	539,825	499	2.25	12.90
3-30-99 to 4-29-99	Apr-99	431,729	499	1.80	14.69
4-29-99 to 5-27-99	May-99	388,443	441	1.43	16.12
5-27-99 to 6-24-99	Jun-99	409,066	441	1.50	17.63
6-24-99 to 7-29-99	Jul-99	502,412	441	1.85	19.47
7-29-99 to 8-27-99	Aug-99	228,824	568	1.08	20.56
8-27-99 to 9-27-99	Sep-99	820,215	568	3.88	24.44
9-27-99 to 10-29-99	Oct-99	530,478	568	2.51	26.95
10-29-99 to 11-24-99	Nov-99	390,353	575	1.87	28.82
11-24-99 to 12-30-99	Dec-99	543,545	575	2.61	31.43
12-30-99 to 1-21-00	Jan-00	170,316	575	0.82	32.25
1-21-00 to 2-25-00	Feb-00	357,840	184.5	0.55	32.80
3-1-00 to 3-31-00	Mar-00	335,782	184.5	0.52	33.31
3-31-00 to 4-27-00	Apr-00	331,270	184.5	0.51	33.82
4-27-00 to 5-26-00	May-00	151,212	154	0.19	34.02
5-26-00 to 6-30-00	Jun-00	300,123	154	0.39	34.40
6-30-00 to 7-26-00	Jul-00	231,991	154	0.30	34.70
7-26-00 to 8-29-00	Aug-00	188,494	503	0.78	35.48
8-29-00 to 9-25-00	Sep-00	84,780	503	0.36	35.84
9-25-00 to 10-26-00	Oct-00	180,071	503	0.76	36.59
10-26-00 to 1-26-01	Jan-01	526,024	85	0.37	36.96
1-26-01 to 4-20-01	Apr-01	261,880	85	0.19	37.15
4-20-01 to 7-19-01	Jul-01	226,260	527	0.99	38.14
7-19-01 to 10-18-01	Oct-01	208,250	527	0.91	39.06
11-06-01 to 02-08-02	Jan-02	120,992	682	0.69	39.75
5-1-02 to 7-31-02	Jul-02	166,455	375	0.52	40.27
8/1/02 to 10/31/02	Oct-02	262,381	375	0.82	41.09
11/1/02 to 1/31/03	Jan-03	109,119	375	0.34	41.43
11/1/02 to 3/14/03	Mar-03	16,977	643	0.09	41.52
2/1/03 to 4/30/03	Apr-03	98,452	643	0.53	42.06
5/1/03 to 7/31/03	Jul-03	24,733	70.9	0.01	42.06
8/1/03 to 10/31/03	Oct-03	66,440.3	70.9	0.04	42.10
11/1/03 to 1/31/04	Jan-04	1,061,901	204.0	1.81	43.91
2/1/04 to 4/30/04	Jan-04	764,057.1	204.0	1.30	45.21
5/1/04 to 07/31/04	Jan-04	1,126,293	204.0	1.92	47.12

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System	Month of influent analysis	Flow Volume for Period (gallons)	Average Total VOC Concentration (ug/L)	Pounds of VOC Removed For Period (Pounds)	Cumulative VOCs Removed (Pounds)
MACON SOURCE AREA CONTINUED					
08/01/04 to 10/31/04	Jan-04	912,927	204.0	1.55	48.68
11/01/04 to 01/31/05	Jan-05	648,840	160.5	0.87	49.55
02/01/05 to 04/30/05	Jan-05	428,952	160.5	0.57	50.12
5/1/05 to 7/31/05	Aug-05	775,057	105.4	0.68	50.80
8/1/05 to 10/31/05	Aug-05	451,291	105.4	0.40	51.20
11/1/05 to 01/31/06	Jan-06	882,380	153.9	1.13	52.33
2/1/06 to 4/30/06	Jan-06	906,080	153.9	1.16	53.49
5/1/06 to 7/31/06	Aug-06	479,065	112.4	0.45	53.94
8/1/06 to 10/29/06	Aug-06	744,809	112.4	0.70	54.64
10/29/06 to 1/27/07	Jan-07	878,048	91.4	0.67	55.31
1/27/07 to 4/29/07	Jan-07	893,578	91.4	0.68	55.99
4/29/07 to 7/29/07	Jul-07	840,760	107.4	0.75	56.74
7/29/07 to 10/28/07	Jul-07	703,817	107.4	0.63	57.37
10/28/08 to 2/3/08	Feb-08	786,749	87.5	0.56	57.93
2/3/08 to 4/27/08	Feb-08	257,264	87.5	0.19	58.12
4/27/08 to 7/29/08	Aug-08	843,918	66.1	0.47	58.58
7/29/08 to 10/28/08	Aug-08	608,862	66.1	0.34	58.92
10/28/08 to 1/31/09	Feb-09	688,226	69.4	0.40	59.32
1/31/09 to 4/28/09	Feb-09	549,554	69.4	0.32	59.64
4/28/09 to 7/30/09	Aug-09	825,366	51.9	0.36	59.99
7/30/09 to 10/29/09	Aug-09	839,963	51.9	0.36	60.36
10/29/09 to 01/31/10	Jan-10	790,314	26.8	0.18	60.53
01/31/10 to 4/29/10	Jan-10	661,400	26.8	0.15	60.68
4/29/10 to 7/30/10	Jan-10	720,744	26.8	0.16	60.84
7/30/10 to 10/29/10	Oct-10	859,560	87.2	0.62	61.47
10/29/10 to 1/31/11	Oct-10	131,219	87.2	0.10	61.56
01/31/11 to 4/29/11	Oct-10	180,095	87.2	0.13	61.69
4/29/11 to 7/30/11	Sep-11	646,933	13.5	0.07	61.77
7/30/11 to 10/29/11	Sep-11	516,581	13.5	0.06	61.82
10/29/11 to 1/31/12	Feb-12	775,843	22.5	0.15	61.97
01/31/12 to 4/29/12	Feb-12	788,566	22.5	0.15	62.12
4/29/12 to 7/30/12	Aug-12	473,093	22.4	0.09	62.21
7/30/12 to 10/29/12	Aug-12	494,322	22.4	0.09	62.30
10/29/12 to 1/31/13	Apr-13	677,499	18.9	0.11	62.41
01/31/13 to 4/29/13	Apr-13	807,986	18.9	0.13	62.53
4/29/13 to 7/30/13	Apr-13	123,205	18.9	0.02	62.55

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System	Month of influent analysis	Flow Volume for Period (gallons)	Average Total VOC Concentration (ug/L)	Pounds of VOC Removed For Period (Pounds)	Cumulative VOCs Removed (Pounds)
MACON SOURCE AREA CONTINUED					
7/30/13 to 10/29/13	Sep-13	634,348	11.8	0.06	62.61
10/29/13 to 1/31/14	Sep-13	450,170	11.8	0.05	62.66
01/31/14 to 4/29/14	Apr-14	673,463	5.4	0.03	62.69
4/29/14 to 7/30/14	Apr-14	688,376	5.4	0.03	62.72

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System	Month of Influent analysis	Flow Volume for Period (gallons)	Average Total VOC Concentration (ug/L)	Pounds of VOC Removed For Period (Pounds)	Cumulative VOCs Removed (Pounds)
U/L Macon	Mar-96	375,318	24.0	0.08	0.08
	Apr-96	709,726	24.0	0.14	0.22
	May-96	482,220	23.0	0.09	0.31
	Jun-96	48,305	31.0	0.01	0.33
	Jul-96	759,920	22.0	0.14	0.47
	Aug-96	638,400	31.0	0.16	0.63
	Sep-96	302,506	31.0	0.08	0.71
	Oct-96	640,760	31.0	0.17	0.88
	Nov-96	871,155	25.3	0.18	1.06
	Dec-96	725,549	25.3	0.15	1.21
	Jan-97	596,131	25.3	0.13	1.34
	Feb-97	795,239	24.4	0.16	1.50
	Mar-97	939,710	24.4	0.19	1.69
	Apr-97	918,080	24.4	0.19	1.88
	May-97	999,040	24.0	0.20	2.08
	Jun-97	605,792	24.0	0.12	2.20
	Jul-97	223,859	24.0	0.04	2.24
	Aug-97	911,679	23.0	0.17	2.42
	Sep-97	917,631	23.0	0.18	2.59
	Oct-97	821,135	23.0	0.16	2.75
	Nov-97	140,796	16.0	0.02	2.77
	Dec-97	844,299	16.0	0.11	2.88
	Jan-98	531,692	16.0	0.07	2.95
	Feb-98	1,051,002	22.9	0.20	3.15
	Mar-98	932,266	22.9	0.18	3.33
	Apr-98	662,272	22.9	0.13	3.46
	May-98	876,945	22.3	0.16	3.62
	Jun-98	448,056	22.3	0.08	3.71
	Jul-98	776,195	22.3	0.14	3.85
	Aug-98	857,122	22.5	0.16	4.01
	Sep-98	821,424	22.5	0.15	4.16
	Oct-98	718,543	22.5	0.13	4.30
	Nov-98	251,141	16.5	0.03	4.33
12-1-98 to 12-31-98	Dec-98	713,232	16.5	0.10	4.43
12-31-98 to 1-27-99	Jan-99	835,206	16.5	0.11	4.55
1-27-99 to 2-23-99	Feb-99	586,579	20.3	0.10	4.65
2-23-99 to 3-30-99	Mar-99	1,035,893	20.3	0.18	4.82
3-30-99 to 4-29-99	Apr-99	894,763	20.3	0.15	4.97

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System	Month of Influent analysis	Flow Volume for Period (gallons)	Average Total VOC Concentration (ug/L)	Pounds of VOC Removed For Period (Pounds)	Cumulative VOCs Removed (Pounds)
U/L MACON CONTNUED					
4-29-99 to 5-27-99	May-99	828,049	21.0	0.14	4.97
5-27-99 to 6-24-99	Jun-99	809,334	21.0	0.14	5.11
6-24-99 to 7-29-99	Jul-99	562,110	21.0	0.10	5.22
7-29-99 to 8-27-99	Aug-99	635,226	17.0	0.09	5.31
8-27-99 to 9-27-99	Sep-99	788,831	17.0	0.11	5.42
9-27-99 to 10-29-99	Oct-99	894,736	17.0	0.13	5.54
10-29-99 to 11-24-99	Nov-99	646,405	13.5	0.07	5.61
11-24-99 to 12-30-99	Dec-99	575,397	13.5	0.06	5.68
12-30-99 to 1-21-00	Jan-00	261,658	13.5	0.03	5.71
1-21-00 to 2-25-00	Feb-00	161,156	7.8	0.01	5.72
3-1-00 to 3-31-00	Mar-00	308,952	7.8	0.02	5.74
3-31-00 to 4-27-00	Apr-00	416,369	7.8	0.03	5.77
4-27-00 to 5-26-00	May-00	127,597	14.6	0.02	5.78
5-26-00 to 6-30-00	Jun-00	607,951	14.6	0.07	5.86
6-30-00 to 7-26-00	Jul-00	425,691	14.6	0.05	5.91
7-26-00 to 8-29-00	Aug-00	380,931	33.2	0.11	6.01
8-29-00 to 9-25-00	Sep-00	919,139	33.2	0.25	6.27
9-25-00 to 10-26-00	Oct-00	242,990	33.2	0.07	6.34
10-26-00 to 1-26-01	Jan-01	200,354	33.2	0.06	6.39
1-26-01 to 4-20-01	Apr-01	145,019	33.2	0.04	6.43
4-20-01 to 7-19-01	Jul-01	454,181	46.5	0.18	6.61
7-19-01 to 10-18-01	Oct-01	1,966,749	46.5	0.76	7.37
11-06-01 to 02-06-02	Jan-02	7,215,481	4.4	0.26	7.63
5-1-02 to 7-31-02	Jul-02	1,300,738	4.4	0.05	7.68
8/1/02 to 10/31/02	Oct-02	572,440	4.4	0.02	7.70
11/1/02 to 1/31/03	Jan-03	390,408	12.4	0.04	7.74
2/1/03 to 4/30/03	Apr-03	2,545,412	12.4	0.26	8.01
5/1/03 to 7/31/03	Jul-03	1,016,735	0.0	0.00	8.01
8/1/03 to 10/31/03	Oct-03	432,785	0.0	0.00	8.01
11/1/03 to 1/31/04	Jan-04	2,375,008	31.6	0.63	8.63
2/1/04 to 4/30/04	Jan-04	4,041,045	31.6	1.06	9.70
5/1/04 to 07/31/04	Jan-04	1,807,409	31.6	0.48	10.17
08/01/04 to 10/31/04	Jan-04	2,645,862	31.6	0.70	10.87
11/01/04 to 01/31/05	Jan-05	2,171,719	56.5	1.02	11.89
02/01/05 to 04/30/05	Jan-05	4,547,891	56.5	2.14	14.03
5/1/05 to 7/31/05	Aug-05	3,508,177	47.4	1.38	15.42
8/1/05 to 10/31/05	Aug-05	1,990,745	47.4	0.79	16.21

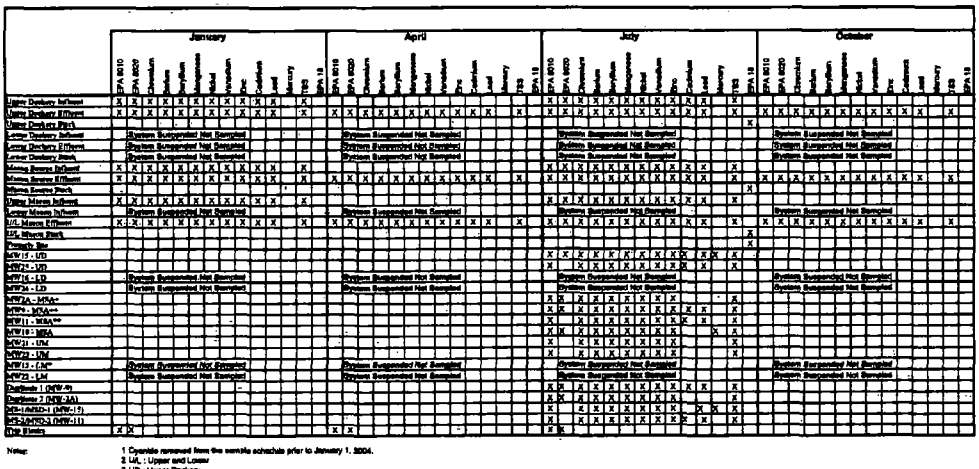
TABLE 14
SUMMARY OF MASS VOC REMOVAL ESTIMATES
MACON/DOCKERY SITE
RICHMOND COUNTY, NORTH CAROLINA
PAGE 12 OF 13

System	Month of influent analysis	Flow Volume for Period (gallons)	Average Total VOC Concentration (ug/L)	Pounds of VOC Removed For Period (Pounds)	Cumulative VOCs Removed (Pounds)
U/L MACON CONTINUED					
11/1/2005 to 01/31/2006	Jan-06	3,847,820	44.0	1.41	17.62
2/1/06 to 4/30/06	Jan-06	3,838,920	44.0	1.41	19.02
5/1/06 to 7/31/06	Aug-06	2,041,180	39.2	0.67	19.69
8/1/06 to 10/29/06	Aug-06	3,601,130	39.2	1.18	20.87
10/29/06 to 1/27/07	Jan-07	4,023,913	71.4	2.40	23.26
1/27/07 to 4/29/07	Jan-07	4,753,188	71.4	2.83	26.09
4/29/07 to 7/29/07	Jul-07	3,456,544	56.2	1.62	27.71
7/29/07 to 10/28/07	Jul-07	3,801,130	56.2	1.69	29.40
10/28/07 to 2/3/08	Feb-08	1,944,131	48.6	0.79	30.18
2/3/2008 to 4/27/08	Feb-08	970,468	48.6	0.39	30.58
4/27/08 to 7/29/08	Feb-08	4,059,852	48.6	1.64	32.22
7/29/08 to 10/28/08	Aug-08	2,555,381	67.6	1.44	33.66
10/28/08 to 1/31/09	Aug-08	1,596,315	67.6	0.90	34.56
1/31/09 to 4/28/09	Feb-09	3,160,921	48.0	1.26	35.83
4/28/09 to 7/30/09	Feb-09	3,782,497	48.0	1.51	37.34
7/30/09 to 10/29/09	Aug-09	4,467,997	31.5	1.17	38.51
10/29/09 to 01/31/10	Aug-09	3,249,151	31.5	0.85	39.37
01/31/10 to 4/29/10	Aug-09	2,331,489	31.5	0.61	39.98
4/29/10 to 7/30/10	Aug-09	1,844,403	31.5	0.48	40.46
7/30/10 to 10/29/10	Oct-10	3,040,486	83.0	2.10	42.57
10/29/10 to 1/31/11	Oct-10	2,037,079	83.0	1.41	43.98
01/31/11 to 4/29/11	Oct-10	36,536	83.0	0.03	44.00
4/29/11 to 7/30/11	Oct-10	1,147,789	83.0	0.79	44.80
7/30/11 to 10/29/11	Sep-11	2,339,082	23.2	0.45	45.25
10/29/11 to 1/31/12	Sep-11	2,799,048	23.2	0.54	45.79
01/31/12 to 4/29/12	Feb-12	3,306,318	61.4	1.69	47.48
4/29/12 to 7/30/12	Feb-12	2,404,372	61.4	1.23	48.71
7/30/12 to 10/29/12	Aug-12	1,725,302	22.4	0.32	49.04

TABLE 14
SUMMARY OF MASS VOC REMOVAL ESTIMATES
MACON/DOCKERY SITE
RICHMOND COUNTY, NORTH CAROLINA
PAGE 13 OF 13

System	Month of Influent analysis	Flow Volume for Period (gallons)	Average Total VOC Concentration (ug/L)	Pounds of VOC Removed For Period (Pounds)	Cumulative VOCs Removed (Pounds)
10/29/12 to 1/31/13	Aug-12	1,364,858	22.4	0.25	49.29
01/31/13 to 4/29/13	Apr-13	2,249,880	37.9	0.71	50.00
4/29/13 to 7/30/13	Apr-13	1,389,294	37.9	0.44	50.44
7/30/13 to 10/29/13	Sep-13	1,888,219	20.8	0.34	50.79
10/29/13 to 1/31/14	Sep-13	2,379,191	20.8	0.41	51.20
01/31/14 to 4/29/14	Apr-14	2,810,370	35.9	0.84	52.04
4/29/14 to 7/30/14	Apr-14	2,043,716	35.9	0.61	52.65

Table 15
Sampling Schedule
Macon Dockery Site



Notes:

1 Cyanide removed from the sample schedule prior to January 1, 2004.
2 UL : Upper and Lower
3 UD : Upper Dockery
4 LD : Lower Dockery
5 MBA : Macon Source Area
6 UM : Upper Macon
7 LM : Lower Macon
8 MS : Matrix Spike
9 MSD : Matrix Spike Duplicate
10 TSS : Total Suspended Solids
11 EPA 8010 : EPA Method 8010 analysis for volatile organic halocarbons
12 EPA 8020 : EPA Method 8020 analysis for volatile organic aromatics
13 EPA 18 : EPA Method 18 analysis for gaseous organics