

SC-41 over Wando River
Bridge Replacement Project

Berkeley and Charleston Counties
South Carolina

Phase II Limited Subsurface Assessments

Pantry #879 / Detyen's Shipyard / Wando Grocery /
SCDOT Section Shed / Cohen Gaskins Jr. Property

June 30, 2005

ARM Project #04-414-05

Prepared For:

Civil Engineering Consulting Services, Inc.
Columbia, South Carolina



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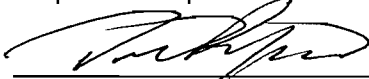
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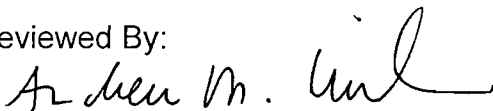
Civil Engineering Consulting Services, Inc.
Columbia, South Carolina

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- A. Project Corridor Location Map
- B. Laboratory Analytical Data

1.0 Introduction

Pursuant to authorization received from Civil Engineering Consulting Services (CECS), Inc., ARM Environmental Services, Inc. (ARM) has conducted Phase II Limited Subsurface Assessments (LSA) of 5 sites along the SC-41 over Wando River Bridge Replacement Project Corridor, located in Charleston and Berkeley Counties, South Carolina. The Project Corridor consists of approximately 8,500 feet along SC-41, approximately 2,100 feet along S-33 (Clements Ferry Road) from SC-41, and 150 feet from the centerline of both roads, as indicated on the Project Corridor Location Map included in Appendix A.

Five sites were evaluated within the scope of these assessments including; 1) Pantry #879 site, located at 2391 SC-41, 2) Detyen's Shipyard site, located at 1670 Dry-dock Avenue, 3) Wando Grocery site, located at approximately 2560 SC-41, 4) Former SCDOT Section Shed site, located adjacent to SC-41, and 5) Cohen Gaskins Jr. Property site, located at the SC-41 / Clements Ferry Road intersection. These Phase II assessments are based on the results of the Hazardous Material / Waste Site Assessment report of the Project Corridor completed by ARM in April of 2005. The primary objective of this scope of services is to provide preliminary information regarding the presence of significant soil contamination at the sites of concern. The general site evaluation procedures conducted during the assessment are summarized below:

SCOPE OF WORK

- ARM installed 2-8 soil borings per site, advanced via a truck mounted Geoprobe 5400, to maximum approximate depths of 8 feet below ground surface (bgs), or until the upper surface of the water table was encountered, whichever was shallower. The borings were primarily located on the areas of the subject sites where potential excavation activities may occur, or throughout the site if the site was a potential acquisition. Soil samples were collected from each borehole at two-foot intervals and screened on-site for organic vapors, utilizing a portable organic vapor analyzer (OVA).
- The soil sample exhibiting the highest organic vapors from each site was field preserved and analyzed by a South Carolina certified laboratory for volatile organic compounds (VOCs). Subsequent to sampling, each boring was abandoned via pressure induced grout per South Carolina Well Standards.

- A written report (this document) detailing the findings of the LSAs was prepared.

2.0 Site Reports

Contained below are summaries of the results of the Phase II LSA work conducted at the referenced sites.

Site #1 – Pantry #879

Site Description

The Pantry #879 site is an active retail gas station located at 2391 SC-41. South Carolina Department of Health and Environmental Control (DHEC) file information indicates that the site is a leaking underground storage tank (LUST) site (DHEC ID# 13065). The site currently utilizes three 10,000 gallon gasoline underground storage tanks (USTs) and one 500 gallon kerosene above ground storage tank (AST) for petroleum product storage and retail distribution. The site is responsible for a fuel release that was reported to DHEC in November 1991. Twelve (12) monitoring wells, currently abandoned, were installed on the site to assess the nature and severity of the release. A no further action (NFA) status was issued for the site by DHEC in March 2003. The existence of the NFA status for the site indicates that based on the available assessment data, DHEC will not require any additional monitoring or remediation of the site to be completed for the referenced fuel release.

Limited Subsurface Assessment

Eight soil borings were installed at the site via a truck mounted Geoprobe 5400 on June 14, 2005. The soil boring locations were chosen in order to assess the entire Pantry #879 property. The soil borings were advanced to approximate total depths from four to six feet bgs, which was the approximate depth of the water table. The shallow subsurface soils consisted primarily of fine to medium grain sands and silty clays. The locations of the soil borings are indicated on the site plan included as Figure 2.

Soil samples were collected from each borehole at two-foot intervals, and were screened on-site for organic vapors with a portable OVA. OVA results for each screened interval are included below in Table 1. The soil sample, above the water table, that exhibited the highest OVA result (SB-6) was placed in appropriate laboratory provided containers. The sample containers were then placed on ice for transport to the laboratory. The soil samples were analyzed by a certified laboratory for VOCs utilizing EPA approved method 8260B. The positive laboratory analytical data is summarized below in Table 2. The Environmental Protection Agency (EPA) Region 9 Residential Preliminary Remediation Goals (PRGs) and the DHEC Dermal Contact / Ingestion Risk Based Screening Levels (RBSLs) for the positive contaminants are included for comparison. The PRGs were obtained from the EPA Region 9 Risk Based Concentration (RBC) Table, dated January 2005. The PRG table includes PRGs for residential and industrial soils for each chemical. For the purposes of this report, the more conservative (lower) residential PRG has been included. The complete laboratory analytical data is included in Appendix B.

Table 1 - Summary of OVA Soil Boring Data
Site #1 – Pantry #879
(Bold Type Indicates Sample Collected for Analysis)

Borehole Identification	Screened Interval (feet)	OVA Results (ppm)	Borehole Identification	Screened Interval (feet)	OVA Results (ppm)
SB-1	0	2	SB-6	0	5
	2	5		2	72
	4	5		4	45
SB-2	0	5	SB-7	6	37
	2	9		0	13
	4	13		2	9
SB-3	0	9	SB-8	4	29
	2	17		0	13
	4	21		2	9
SB-4	0	21		4	21
	2	29			
	4	21			
SB-5	0	33			
	2	52			
	4	49			

Table 2 - Summary of Positive Soil Analytical Data*
Site #1 – Pantry #879
(Samples Collected June 14, 2005)

Chemical of Concern	DHEC Dermal Contact / Ingestion RBSL	EPA Residential PRG	SB-6 (2 ft)
Acetone	N/A	14,000,000	68
2-Butanone (MEK)	N/A	22,000,000	7.2
Ethylbenzene	7,800,000	400,000	0.87

*All results are expressed in ug/kg.

Site Summary and Conclusions

The Pantry #879 site has a history of documented soil and ground water contamination. NFA status has been issued by DHEC for the site; however, the results of the LSA indicate that the shallow soils at the site presently contain low concentrations of petroleum-based contamination. Additionally, low concentrations of acetone and methyl ethyl ketone (MEK) were identified on the site. Acetone and MEK are solvents which are commonly used in industrial coating and also as degreasers. The source of the acetone and MEK identified is unknown, but could be associated with the light industrial history of the Project Corridor area. The contaminant concentrations detected in the soils are considered relatively low and would not appear to represent gross soil contamination, or a significant risk for human exposure. Potential ground water impact from the presence of these contaminants can only be quantified with the collection and analysis of ground water samples. Additionally, it is suspected that the soil contaminants detected may potentially be present due to contact with contaminated ground water, which may vary in depth both seasonally and tidally. Based on the shallow nature of the soil contamination detected, and the relatively shallow water table (approximately 4 feet) at the site, there is a potential for encountering contaminated soils and/or ground water during any planned excavation activities at the site.

Also, it should be noted that if the site is to be acquired, UST removal and closure documentation per DHEC requirements would be necessary. A site location map and site plan for the site are included on the following pages as Figure 1 and Figure 2.



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Figure 1

Site Location Map
Site #1 – Pantry #879 Site
(USGS Aerial Photograph, 2000)

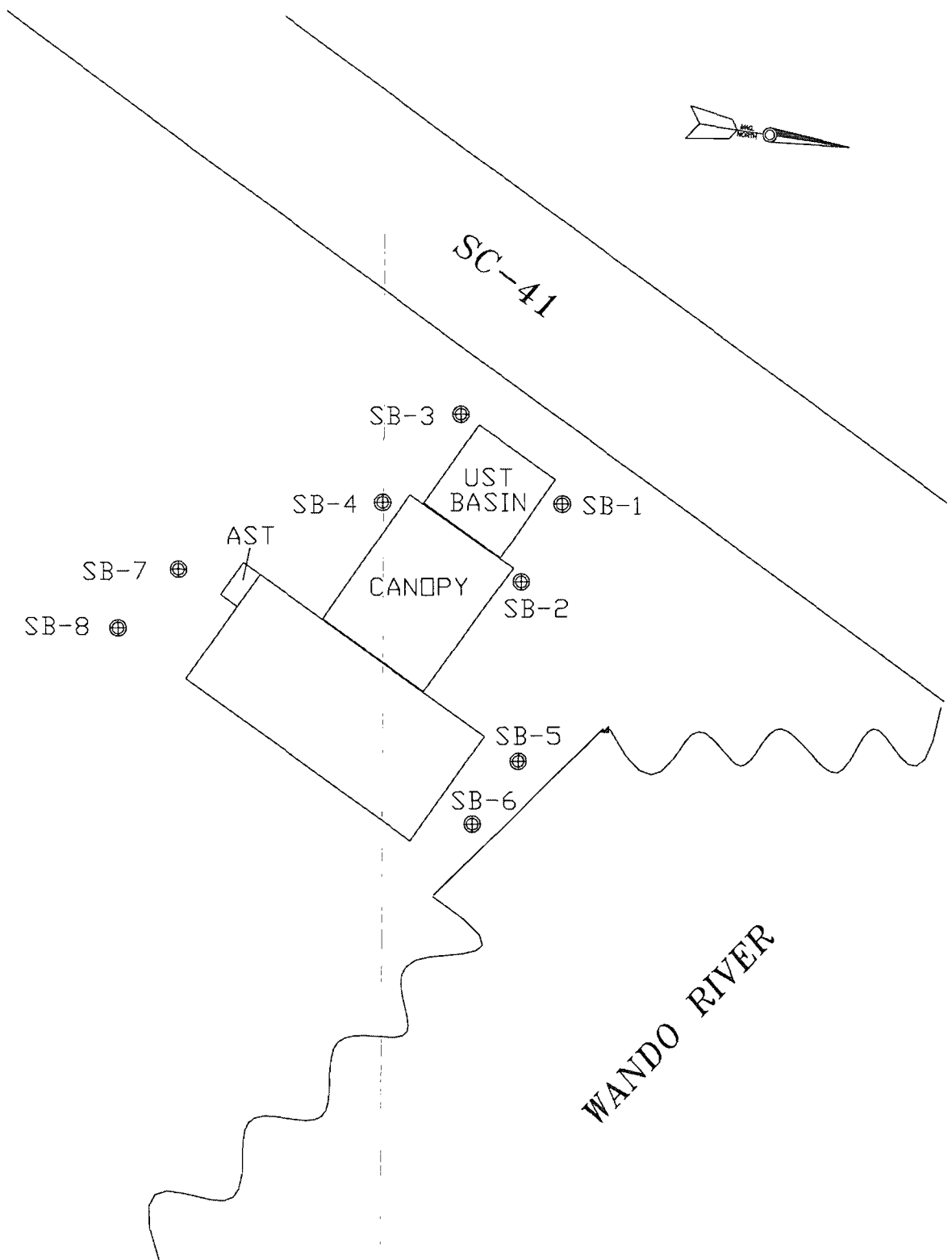
Scale

1 inch \cong 1,200 feet

Date

June 2005

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PROJECT:

PHASE II ENVIRONMENTAL
ASSESSMENTS
SC-41 OVER WANDO RIVER

DESCRIPTION:

SITE PLAN
SITE #1 - PANTRY #879 / 2391 SC-41

FIGURE 2

DATE:

JUNE 2005

REFERENCE

BASED ON SITE VISIT BY ARM
ENVIRONMENTAL SERVICES, INC.
PERSONNEL. DRAWING NOT TO SCALE.

LEGEND:

⊗ = SOIL BORING

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Site #2 – Detyen's Shipyard

Site Description

Detyen's Shipyard encompasses over fifty acres of land on the Wando River both in and adjacent to the Project Corridor. A variety of ship repairs appear to occur on the site including utilization of heavy equipment such as cranes, trucks, tractors, dry-docks, fully equipped workshops, and ASTs. An inquiry of standard incident reports provided through a National Response Center (NRC) website returned details regarding three fuel releases that occurred at/near the Detyen's site. Although detailed information regarding the fuel release incidents was not available, it appears likely that onsite boat and ship repair activities have adversely affected the environmental conditions of the Detyen's Shipyard site.

Limited Subsurface Assessment

Three soil borings were installed at the site via a truck mounted Geoprobe 5400 on June 14, 2005. The soil boring locations were chosen in order to assess the proposed water main installation area at the Detyen's Shipyard site. The soil borings were advanced to approximate total depths from four to six feet bgs, which was the approximate depth of the shallow water table. The shallow subsurface soils consisted primarily of fine to medium grain sands and silty clays. The locations of the soil borings are indicated on the site plan included as Figure 4.

Soil samples were collected from each borehole at two-foot intervals. The soil samples were screened on-site for organic vapors with a portable OVA. Results for organic vapor analysis of each soil sample is included in Table 3. The soil sample above the water table that exhibited the highest OVA result (SB-10), was placed in appropriate laboratory provided containers. The sample containers were then placed on ice for transport to the laboratory. The soil samples were analyzed by a certified laboratory for VOCs utilizing EPA approved method 8260B. The positive laboratory analytical data is summarized below in Table 4. The EPA Region 9 Residential PRGs and the DHEC Dermal Contact / Ingestion RBSLs for the positive contaminants are included for comparison. The complete laboratory analytical data is included in Appendix B.

**Table 3 - Summary of OVA Soil Boring Data
Site #2 – Detyen's Shipyard
(Bold Type Indicates Sample Collected for Analysis)**

Borehole Identification	Screened Interval (feet)	OVA Results (ppm)
SB-9	0	0
	2	1
	4	1
	6	1
SB-10	0	1
	2	2
	4	1
SB-11	0	1
	2	0
	4	1

**Table 4 - Summary of Positive Soil Analytical Data*
Site #2 – Detyen's Shipyard
(Samples Collected June 14, 2005)**

Chemical of Concern	DHEC Dermal Contact / Ingestion RBSL	EPA Residential PRG	SB-10 (2 ft)
Acetone	N/A	14,000,000	70
2-Butanone (MEK)	N/A	22,000,000	13
Carbon Disulfide	N/A	360,000	6.5
Ethylbenzene	7,800,000	400,000	0.41

*All results are expressed in ug/kg.

Site Summary and Conclusions

The results of the LSA indicate that the shallow soils at the site have been impacted by relatively low concentrations of acetone, MEK, carbon disulfide, and ethylbenzene contamination. Based on the available information, the source of the identified contamination is unknown, but could be the result of the light industrial history of the Project Corridor area. The contamination detected in the soils at the Detyen's Shipyard site is considered relatively low and does not appear to represent gross soil contamination, or a significant risk for human exposure. Potential ground water impact from the presence of these contaminants can only be positively quantified with the collection and analysis of ground water samples. Additionally, it is suspected that the soil contaminants detected may potentially be present due to contact with contaminated ground water, which may vary slightly in depth seasonally and tidally. Based on the shallow nature of the soil contamination detected, and the relatively shallow water table (approximately 4 feet) at the site, there is a potential for encountering contaminated soils and/or ground water during any excavation activities on this portion of the site.

A site location map and site plan for the site are included on the following pages as Figure 3 and Figure 4.



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Figure 3

Site Location Map
Site #2 – Detyen's Shipyard Site
(USGS Aerial Photograph, 2000)

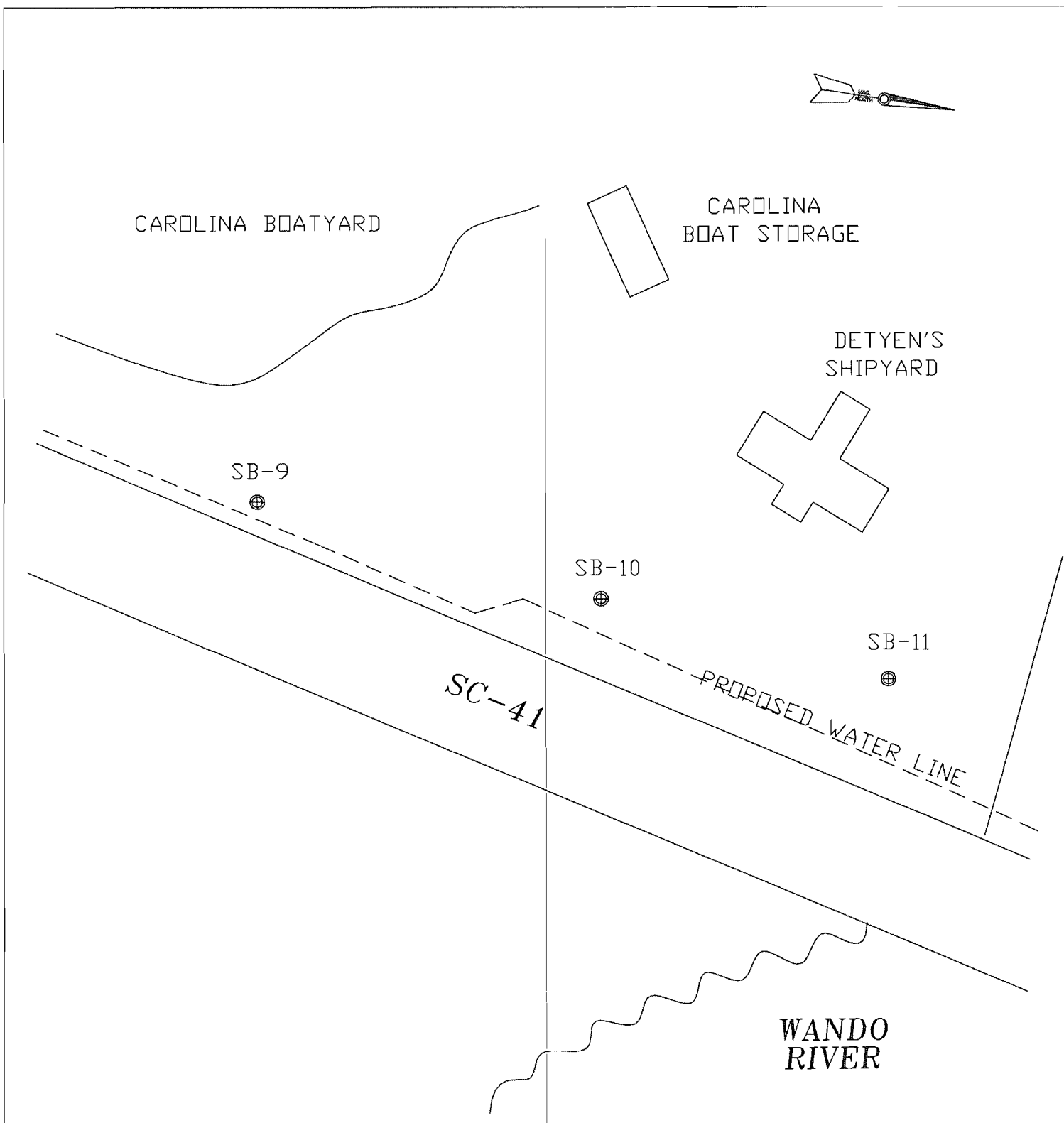
Scale

1 inch \cong 1,200 feet

Date

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<p>PROJECT:</p> <p>PHASE II ENVIRONMENTAL ASSESSMENTS SC-41 OVER WANDO RIVER</p>	<p>DESCRIPTION:</p> <p>SITE PLAN SITE #2 - DETYEN'S SHIPYARD / 1670 DRY-DOCK AVENUE</p>	<p>FIGURE 4</p> <p>DATE: JUNE 2005</p>
<p>ARM ENVIRONMENTAL SERVICES, INC.</p>	<p>REFERENCE</p> <p>BASED ON SITE VISIT BY ARM ENVIRONMENTAL SERVICES, INC. PERSONNEL. DRAWING NOT TO SCALE.</p>	<p>LEGEND:</p> <p>⊕ = SOIL BORING</p>

Site #3 – Wando Grocery

Site Description

The Wando Grocery Site, a LUST site (DHEC ID #14035), formerly operated as a retail gas station and convenience store. The site is located at approximately 2560 SC-41 in the Project Corridor area. The Wando Grocery site is a former UST site and is responsible for a fuel release that was reported to DHEC in 1991. Five USTs have been removed from the site, including one 1,000 gallon, two 550 gallon, and one 6,000 gallon USTs. A UST regulatory file review was previously conducted for the site at the DHEC Freedom of Information (FOI) office in order to further evaluate the environmental conditions of the site. Review of the regulatory file indicated that all of the assessment work previously performed for the Wando Grocery site, was mistakenly performed at the Cohen Gaskins Jr. Property site (Site #5). As a result, no previous assessment information is available for the Wando Grocery site.

Limited Subsurface Assessment

Four soil borings were installed at the site via a truck mounted Geoprobe 5400 on June 14, 2005. The soil boring locations were chosen in order to assess the right of way area on the Wando Grocery site for a proposed water main installation. The soil borings were advanced to approximate total depths of four feet bgs, which was the approximate depth of the shallow water table. The shallow subsurface soils consisted primarily of fine to medium grain sands and silty clays. The locations of the soil borings are indicated on the site plan included as Figure 6.

Soil samples were collected from each borehole at two-foot intervals. The soil samples were screened on-site for organic vapors with a portable OVA. Results for organic vapor analysis of each soil sample are included in Table 5. The soil sample, above the water table, that exhibited the highest OVA result (SB-12) was placed in appropriate laboratory provided containers. The sample containers were then placed on ice for transport to the laboratory. The soil samples were analyzed by a certified laboratory for VOCs utilizing EPA approved method 8260B. The positive laboratory analytical data is summarized below in Table 6. The EPA Region 9 Residential PRGs and the DHEC Dermal Contact /

Ingestion RBSLs for the positive contaminants are included for comparison purposes. The complete laboratory analytical data is included in Appendix B.

**Table 5 - Summary of OVA Soil Boring Data
Site #3 – Wando Grocery
(Bold Type Indicates Sample Collected for Analysis)**

Borehole Identification	Screened Interval (feet)	OVA Results (ppm)
SB-12	0	25
	2	33
	4	76
SB-13	0	13
	2	21
	4	49
SB-14	0	9
	2	37
	4	25
SB-15	0	13
	2	17
	4	9

**Table 6 - Summary of Positive Soil Analytical Data*
Site #3 – Wando Grocery
(Samples Collected June 14, 2005)**

Chemical of Concern	DHEC Dermal Contact / Ingestion RBSL	EPA Residential PRG	SB-12 (4 ft)
Ethylbenzene	7,800,000	400,000	260
Isopropylbenzene	N/A	570,000	84
P-Cymene	N/A	N/A	65
Naphthalene	3,100,000	56,000	2,200
Sec-Butylbenzene	N/A	220,000	82
Toluene	16,000,000	520,000	38
1,2,4-Trimethylbenzene	N/A	52,000	3,100
Total Xylenes	160,000,000	270,000	1,010

*All results are expressed in ug/kg.

Site Summary and Conclusions

DHEC file information indicates that five USTs have been removed from the Wando Grocery site. The results of the LSA indicate that the shallow soils at the site have been impacted by moderate to high concentrations of petroleum-based contaminants related to the previous UST system. Additionally, several other low level contaminants were identified including, p-Cymene, toluene, and xylenes. According to the OVA results, all of the soil borings completed along the SC-41 right of way area at the Wando Grocery site were contaminated. The concentrations of petroleum-based contaminants in the soils are considered moderate to high and indicate likely significant ground water impact. Potential ground water impact from the presence of these contaminants can only be positively quantified with the collection and analysis of ground water samples. Based on the shallow nature of the soil contamination detected, and the relatively shallow water table at the site (approximately 4 feet), there is a potential for encountering contaminated soils and/or ground water during any excavation activities at the site.

A site location map and site plan for the site are included on the following pages as Figure 5 and Figure 6.



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Figure 5

Site Location Map
Site #3 – Wando Grocery Site
(USGS Aerial Photograph, 2000)

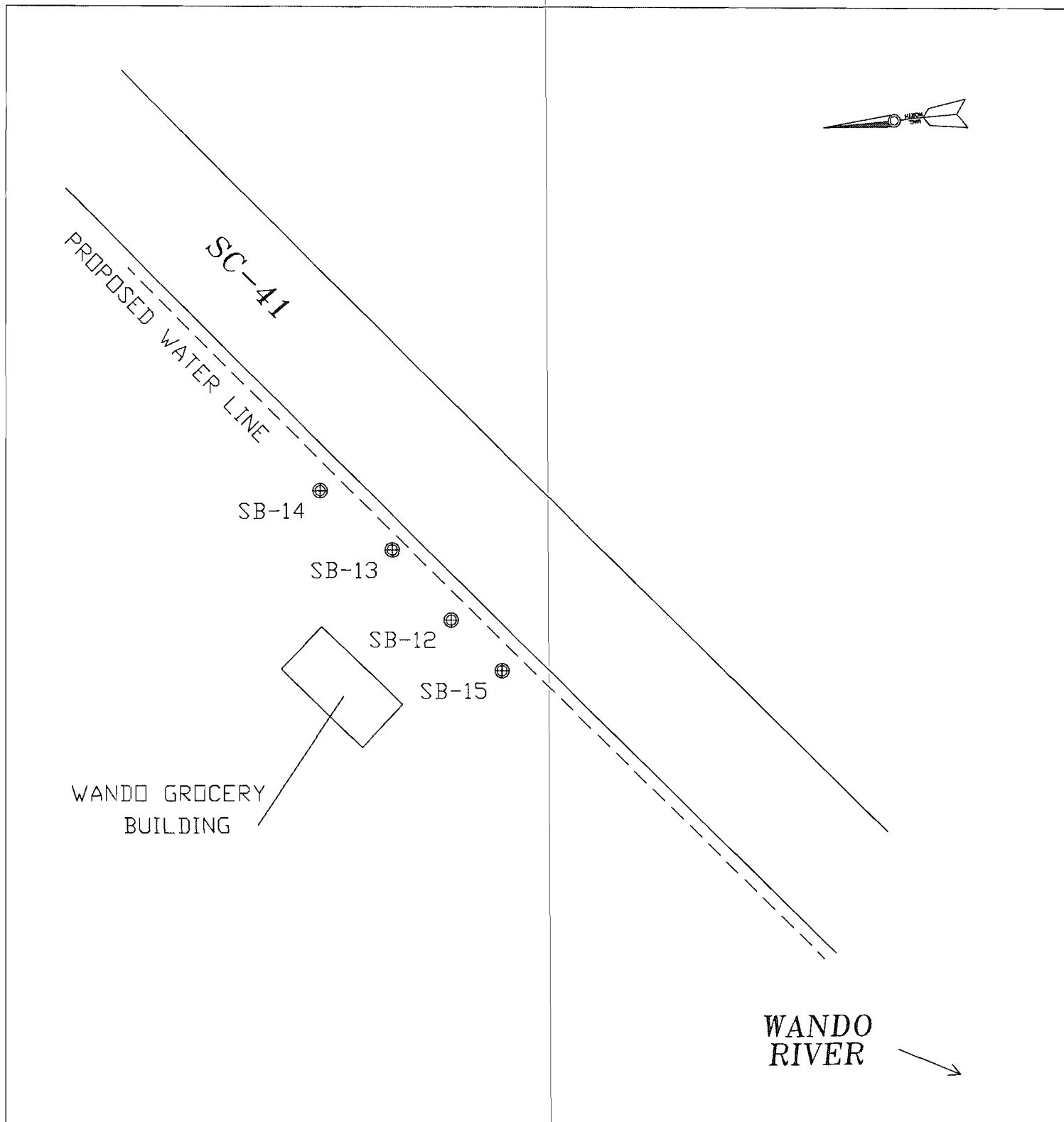
Scale

1 inch \approx 1,200 feet

Date

June 2005

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<p>PROJECT:</p> <p>PHASE II ENVIRONMENTAL ASSESSMENTS SC-41 OVER WANDO RIVER</p>	<p>DESCRIPTION:</p> <p>SITE PLAN SITE #3 - WANDO GROCERY (FORMER GAS STATION) / 2560 SC-41</p>	<p>FIGURE 6</p> <p>DATE: JUNE 2005</p>
<p>ARM ENVIRONMENTAL SERVICES, INC.</p>	<p>REFERENCE</p> <p>BASED ON SITE VISIT BY ARM ENVIRONMENTAL SERVICES, INC. PERSONNEL. DRAWING NOT TO SCALE.</p>	<p>LEGEND:</p> <p>⊗ = SOIL BORING</p>

Site #4 – Former SCDOT Section Shed

Site Description

The Former SCDOT Wando Section Shed, a LUST site (DHEC ID # 01077), is located in the Project Corridor area on the north side of SC-41, adjacent to the Wando River. The Former SCDOT Section Shed consists of a partially paved lot with a chain link fence surrounding the paved portion of the site. The site formerly utilized two relatively small USTs for the storage of diesel fuel. A fuel release was reported for the site, and the 1,000 gallon, and 560 gallon UST formerly present at the site, were abandoned by removal. A DHEC UST Program representative indicated that a single soil and ground water sample were collected and analyzed at the site subsequent to the removal of the USTs. The results of the assessment indicated that contamination was not present at concentrations considered by DHEC to represent a significant threat to the health of humans, or to the environment. An NFA status was issued for the site in May 1990. Due to the NFA status of the site, the DHEC file has been purged and is no longer available.

Limited Subsurface Assessment

Two soil borings were installed at the site via a truck mounted Geoprobe 5400 on June 15, 2005. The soil boring locations were chosen in order to assess the proposed water main area on the Former SCDOT Section Shed site. The soil borings were advanced to approximate total depths to eight feet bgs. The approximate depth of the shallow water table is four feet. The shallow subsurface soils consisted primarily of fine to medium grain sands and silty clays. The locations of the soil borings are indicated on the site plan included as Figure 8.

Soil samples were collected from each borehole at two-foot intervals. The soil samples were screened on-site for organic vapors with a portable OVA. Results for organic vapor analysis of each soil sample are included below in Table 7. The soil sample, above the water table, that exhibited the highest OVA result was placed in appropriate laboratory provided containers. The sample containers were then placed on ice for transport to the laboratory. The soil samples were analyzed by a certified laboratory for VOCs utilizing EPA approved method 8260B. The positive laboratory analytical data is summarized below in Table 8. The EPA Region 9 Residential PRGs and the DHEC Dermal Contact /

Ingestion RBSLs for the positive contaminants are included for comparison. The complete laboratory analytical data is included in Appendix B.

**Table 7 - Summary of OVA Soil Boring Data
Site #4 – Former SCDOT Section Shed
(Bold Type Indicates Sample Collected for Analysis)**

Borehole Identification	Screened Interval (feet)	OVA Results (ppm)
SB-16	0	1
	2	1
	4	1
	6	2
	8	5
SB-17	0	1
	2	1
	4	13
	6	17
	8	52

**Table 8 - Summary of Positive Soil Analytical Data*
Site #4 – Former SCDOT Section Shed
(Samples Collected June 15, 2005)**

Chemical of Concern	DHEC Dermal Contact / Ingestion RBSL	EPA Residential PRG	SB-17 (4 ft)
Acetone	N/A	14,000,000	100
2-Butanone (MEK)	N/A	22,000,000	20
Carbon Disulfide	N/A	360,000	1.6
Ethylbenzene	7,800,000	400,000	1.6
Isopropylbenzene	N/A	570,000	0.47
Total Xylenes	160,000,000	270,000	9.1

*All results are expressed in ug/kg.

Site Summary and Conclusions

The results of the LSA indicate that the shallow soils, at the site, have been impacted by relatively low concentrations of petroleum and non-petroleum contaminants including acetone, MEK, carbon disulfide, ethylbenzene, isopropylbenzene, and xylenes. No chemicals were detected at levels exceeding the PRGs, or RBSLs for the Former SCDOT Section Shed site. The analytical data indicates that the shallow soils at the site do not appear to pose a significant exposure risk; however, potential ground water impact from the presence of these contaminants can only be positively quantified with the collection and analysis of ground water samples. Additionally, it is suspected that the soil contaminants detected may potentially be present due to contact with contaminated ground water, which may vary slightly in depth seasonally and tidally. Based on the shallow nature of the soil contamination detected, and the relatively shallow water table at the site (approximately 4 feet), there is a potential for encountering contaminated soils and/or ground water during any planned excavation activities at the site.

A site location map and site plan for the site are included on the following pages as Figure 7 and Figure 8.



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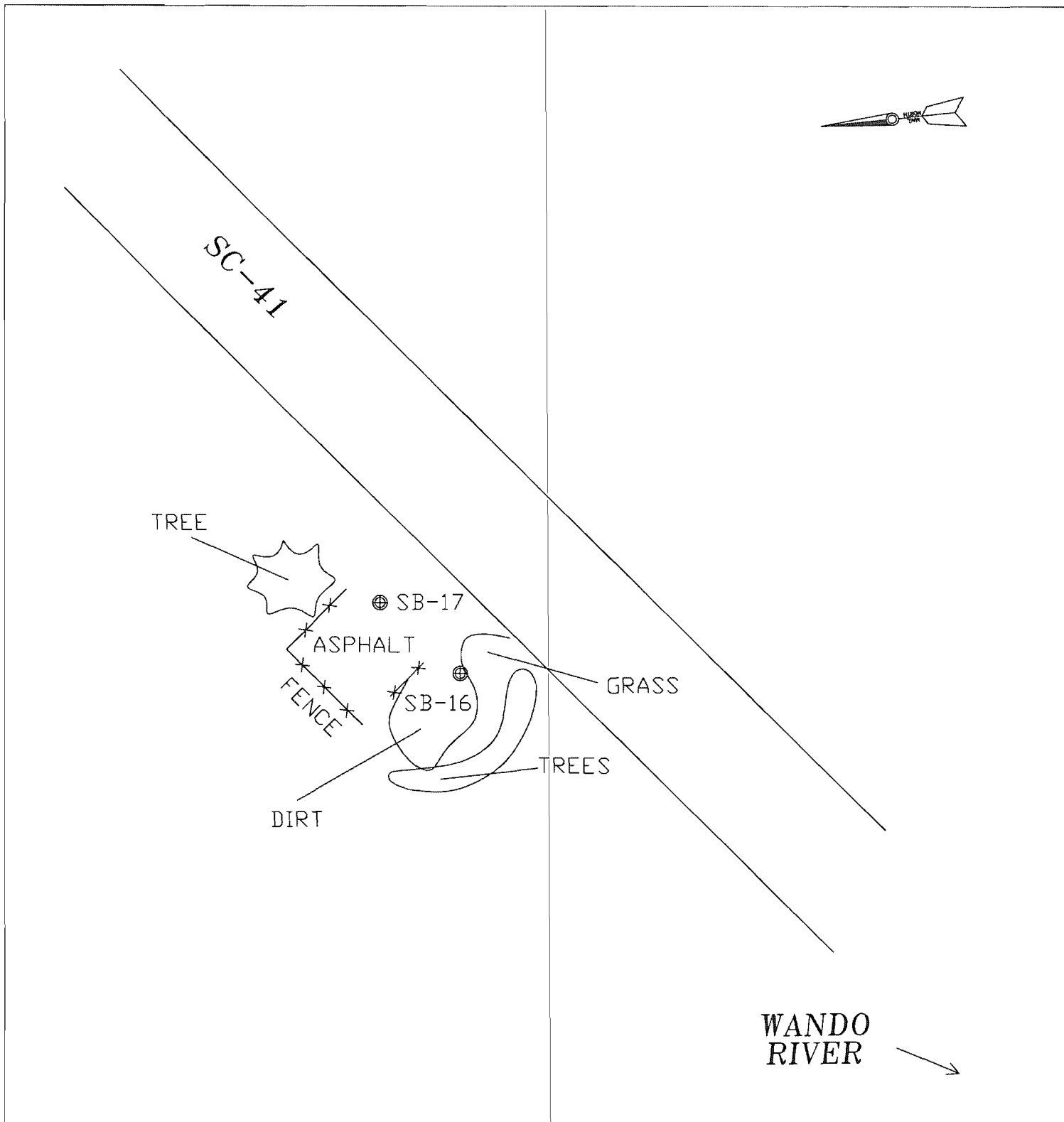
Figure 7

Site Location Map
 Site #4 – DOT Section Shed Site
 (USGS Aerial Photograph, 2000)

Scale
 1 inch \cong 1,200 feet

Date
 June 2005

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<p>PROJECT:</p> <p>PHASE II ENVIRONMENTAL ASSESSMENTS SC-41 OVER WANDO RIVER</p>	<p>DESCRIPTION:</p> <p>SITE PLAN SITE #4 - SCDOT SECTION SHED</p>	<p>FIGURE 8</p> <p>DATE: JUNE 2005</p>
<p>ARM ENVIRONMENTAL SERVICES, INC.</p>	<p>REFERENCE</p> <p>BASED ON SITE VISIT BY ARM ENVIRONMENTAL SERVICES, INC. PERSONNEL. DRAWING NOT TO SCALE.</p>	<p>LEGEND:</p> <p>⊗ = SOIL BORING</p>

Site #5 – Cohen Gaskins Jr. Property

Site Description

The Cohen Gaskins Jr. Property site is located at the SC-41 and Clements Ferry Road intersection. The Cohen Gaskins Jr. Property site is primarily undeveloped. One former dispenser island is currently located at the site and several ground water monitoring wells are present from previous environmental assessment activities. Based on the presence of the former dispenser island on the property, it appears that the site formerly served as a retail gas station. DHEC file information indicates that petroleum based subsurface contamination has been documented on the Cohen Gaskins Jr. Property site. Additionally, the immediate Project Corridor area has been adversely impacted by petroleum-based contamination. The concentrations of petroleum based contaminants identified in the soil and ground water during previous environmental assessment activities are significantly elevated above the RBSLs established by DHEC as a lower threshold for conditions that represent a significant risk to human health and to the environment.

Limited Subsurface Assessment

Four soil borings were installed at the site via a truck mounted Geoprobe 5400 on June 15, 2005. The soil boring locations were chosen in order to assess the entire Cohen Gaskins Jr. property. The soil borings were advanced to approximate total depths of four feet below ground surface (bgs), which was the approximate depth of the shallow water table. The shallow subsurface soils consisted primarily of fine to medium grain sands and silty clays. The locations of the soil borings are indicated on the site plan included as Figure 10.

Soil samples were collected from each borehole at two-foot intervals. The soil samples were screened on-site for organic vapors with a portable OVA. Results for organic vapor analysis of each soil sample are included below in Table 9. The soil sample, above the water table, that exhibited the highest OVA result (SB-19) was placed in appropriate laboratory provided containers. The sample containers were then placed on ice for transport to the laboratory. The soil samples were analyzed by a certified laboratory for VOCs utilizing EPA approved method 8260B. The positive laboratory analytical data is summarized below in Table 10. The EPA Region 9 Residential PRGs and the DHEC Dermal Contact / Ingestion RBSLs for the positive contaminants are included for comparison. The complete laboratory analytical data is included in Appendix B.

**Table 9 - Summary of OVA Soil Boring Data
Site #5 – Cohen Gaskins Jr. Property
(Bold Type Indicates Sample Collected for Analysis)**

Borehole Identification	Screened Interval (feet)	OVA Results (ppm)
SB-18	0	1
	2	9
	4	5
SB-19	0	52
	2	217
	4	241
SB-20	0	13
	2	9
	4	10
SB-21	0	5
	2	9
	4	9

Table 10 - Summary of Positive Soil Analytical Data*
Site #5 – Cohen Gaskins Jr. Property
(Samples Collected June 15, 2005)

Chemical of Concern	DHEC Dermal Contact / Ingestion RBSL	EPA Residential PRG	SB-19 (4 ft)
Benzene	12,000	640	300
Ethylbenzene	7,800,000	400,000	13,000
Isopropylbenzene	N/A	570,000	2,700
P-Cymene	N/A	N/A	620
Naphthalene	3,100,000	56,000	5,600
N-Butylbenzene	N/A	240,000	2,900
Sec-Butylbenzene	N/A	220,000	1,000
Toluene	16,000,000	520,000	51
1,2,4-Trimethylbenzene	N/A	52,000	14,000
Total Xylenes	160,000,000	270,000	2,100

*All results are expressed in ug/kg.

Site Summary and Conclusions

DHEC previous environmental assessment data and the results of the LSA confirm that the shallow soils at the Cohen's Gaskins Jr. Property site have been adversely impacted by high concentrations of petroleum-based contamination. The soil analytical results above also indicate significant concentrations of other non-petroleum contaminants. Although none of these contaminant concentrations exceed the comparative standards provided, significant soil contamination is indicated. Documented ground water contamination exists on the site and there is a high potential for encountering contaminated soils and/or ground water during any planned excavation activities.

A site location map and site plan for the site are included on the following pages as Figure 9 and Figure 10.



Project

Phase II Environmental Assessments
SC-41 over Wando River
Charleston / Berkeley Counties
South Carolina

Figure 9

Site Location Map
Site #5 – Cohen Gaskins Jr. Property Site
(USGS Aerial Photograph, 2000)

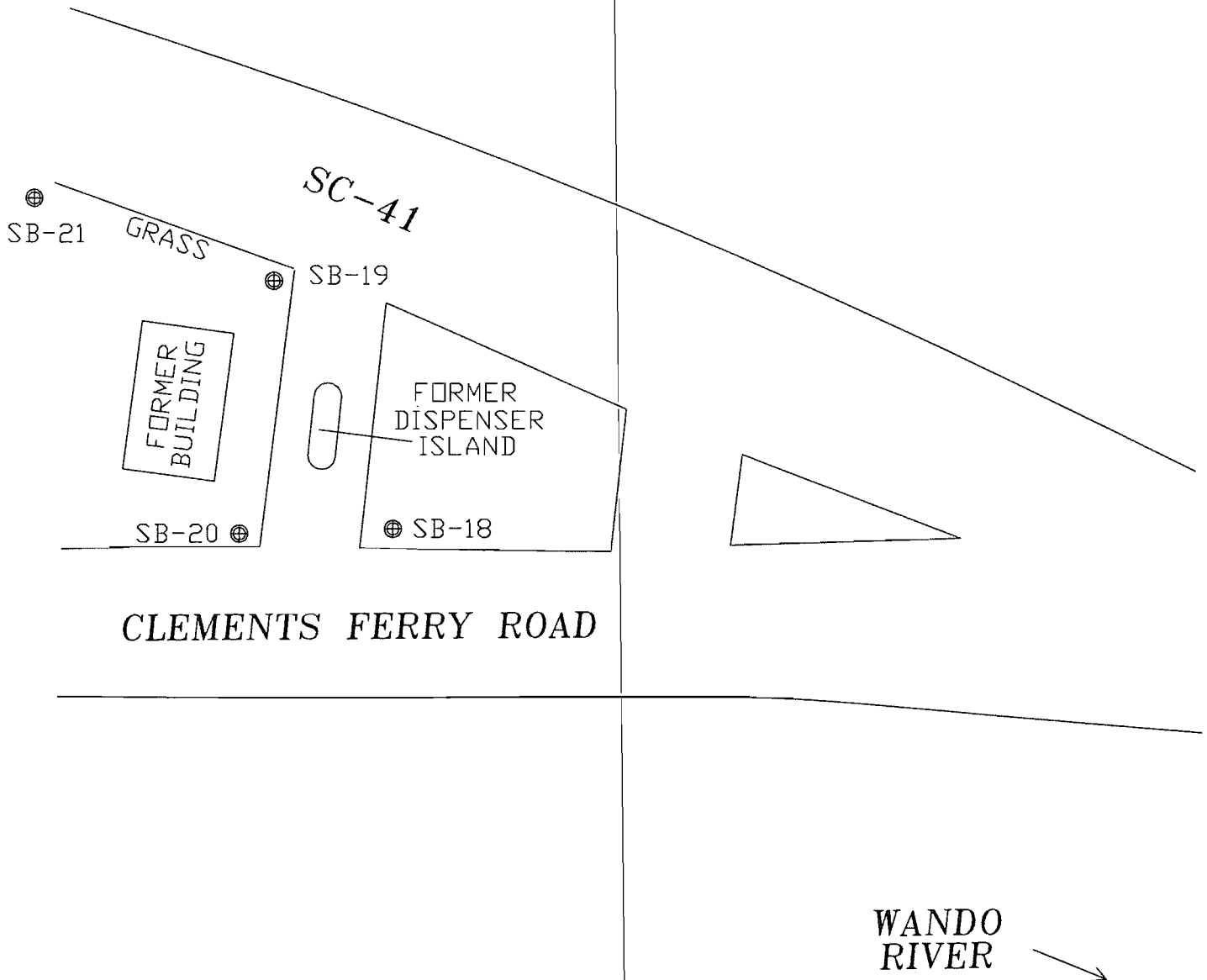
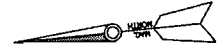
Scale

1 inch \cong 1,200 feet

Date

June 2005

ARM ENVIRONMENTAL
SERVICES, INC.



PROJECT:

PHASE II ENVIRONMENTAL
ASSESSMENTS
SC-41 OVER WANDO RIVER

DESCRIPTION:

SITE PLAN
SITE #5 - COHEN GASKINS JR.
PROPERTY (FORMER GAS STATION)
SC-41 AND CLEMENTS FERRY ROAD

FIGURE 10

DATE:

JUNE 2005

REFERENCE

BASED ON SITE VISIT BY ARM
ENVIRONMENTAL SERVICES, INC.
PERSONNEL. DRAWING NOT TO SCALE.

LEGEND:

⊕ = SOIL BORING

ARM ENVIRONMENTAL
SERVICES, INC.

3.0 Project Conclusions

The results of the Phase II LSAs indicate that soil contamination is present at all five of the sites investigated within the Project Corridor. Although the soil contaminant concentrations vary, potential ground water impact from the presence of these contaminants can only be positively quantified with the collection and analysis of ground water samples. Additionally, it is suspected that some of the contaminants, such as acetone, MEK, and other non-petroleum compounds, may potentially be present due to contaminated ground water, which may vary slightly in depth seasonally and tidally, and which may also indicate a local / regional ground water contamination issue. Individual conclusions are provided for each site in the individual sections of this report; however, overall, based on the shallow nature of the soil contamination detected, and the relatively shallow water table at the sites, there is a potential for encountering contaminated soils and/or ground water during any planned excavation activities on the sites.

4.0 Warranty

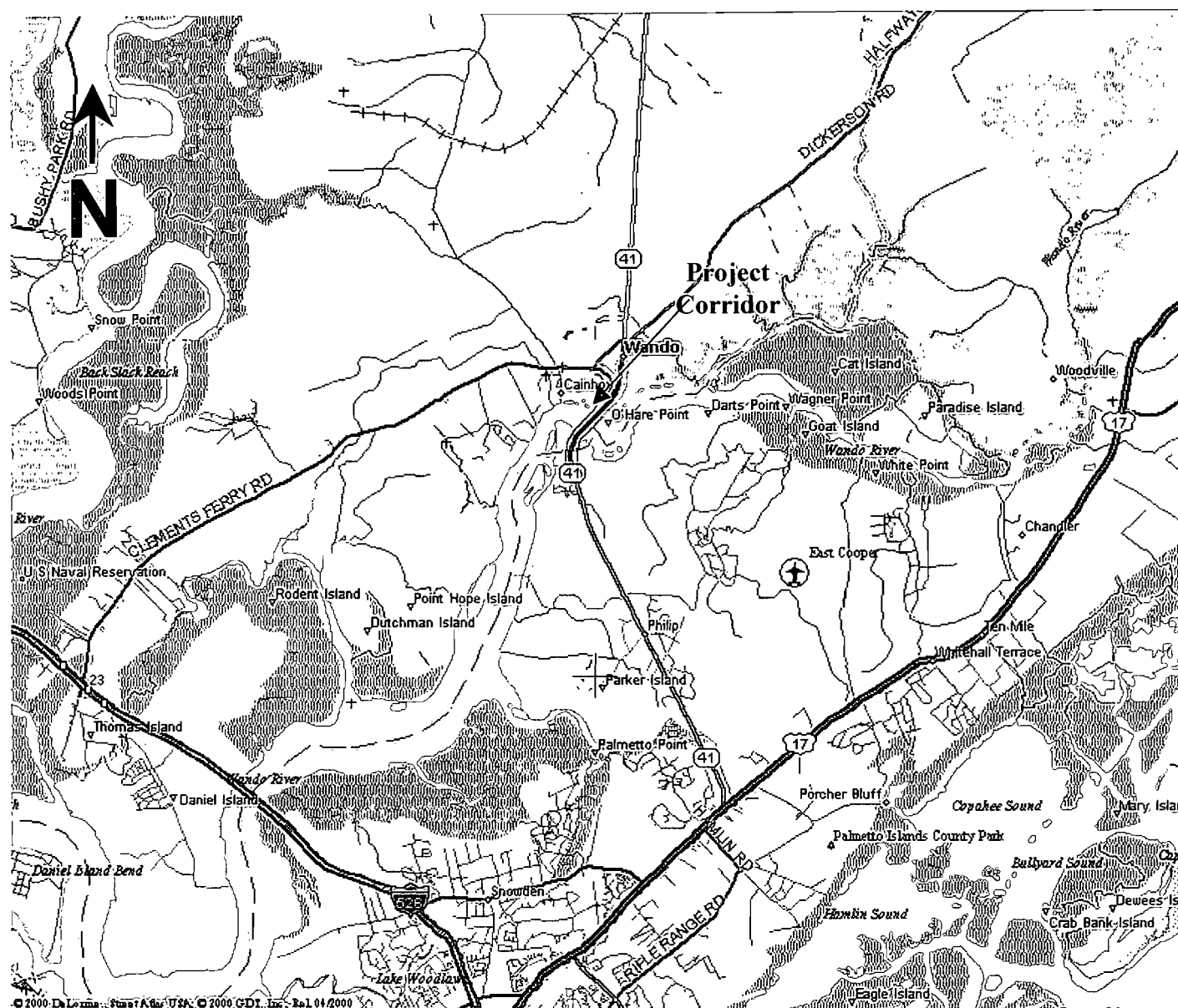
Services provided by ARM in this environmental assessment have been conducted in accordance with generally accepted environmental practices. This report has been generated solely for the use of the client. The information presented in this report is based only upon our site observations at the time of the site reconnaissance and data generated during our site reconnaissance. We cannot be responsible for the accuracy of information provided by others; however, we have no reason to suspect that any of the information provided is inaccurate. We accept no responsibility of damages or claims resulting from past or future environmental impact to the site caused by on or off-site activities or contamination, nor do we accept responsibility for subsequent remediation. This study is intended to be a non-biased assessment of on-site environmental conditions. No other warranties, either expressed or implied, are made.

APPENDICES

- A. PROJECT CORRIDOR LOCATION MAP
- B. LABORATORY ANALYTICAL DATA

Appendix A

Figure 11 – Project Corridor Location Map



Project

Phase II Environmental Assessments
SC-41 over Wando River
Charleston / Berkeley Counties
South Carolina

Figure 11

Project Corridor Location Map

Scale

1 inch \cong 2 miles

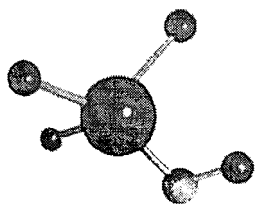
Date

June 2005

ARM ENVIRONMENTAL
SERVICES, INC.

Appendix B

Laboratory Analytical Data



ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

Job Number: 400-3187-1

Job Description: ARM 04-414-05 SC41 over Wando River

For:

ARM
1210 1st Street South Extension
Columbia, SC 29209

Attention: Mr. Dearal Rodgers

Ashley Amick, Project Manager
aamick@accessanalyticalinc.com

06/24/2005

FLDOH Certification #E81010. SCDHEC Certification#96026. The test results in this report meet all NELAP requirements for accredited parameters. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced except in full without written approval from the laboratory.

Severn Trent Laboratories, Inc.

STL Pensacola 3355 McLemore Drive, Pensacola, FL 32514
Tel 850-4741001 Fax 850-4782671 www.stl-inc.com

ARM
1210 1st Street South Extension
Columbia, SC 29209

Job Number: 400-3187-1
Lab Sample Id: 400-3187-1
Date Sampled: 06/14/2005 1700
Date Received: 06/17/2005 0920

Client Sample ID: SB-6

	Result/Qualifier	Unit	RL	Method	Date Prepared	Date Analyzed	Dilution
GC/MS VOA							
Acetone	68	ug/Kg	1.7	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Benzene	ND	ug/Kg	0.25	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Bromobenzene	ND	ug/Kg	0.49	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Bromochloromethane	ND	ug/Kg	0.19	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Bromodichloromethane	ND	ug/Kg	0.23	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Bromoform	ND	ug/Kg	0.46	8260B	06/21/2005 1239	06/21/2005 1508	1.0
2-Butanone (MEK)	7.2	ug/Kg	1.7	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Carbon disulfide	ND	ug/Kg	0.16	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Bromomethane	ND	ug/Kg	0.94	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Carbon tetrachloride	ND	ug/Kg	0.21	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Chlorobenzene	ND	ug/Kg	0.25	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Chloroethane	ND	ug/Kg	0.80	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Chloroform	ND	ug/Kg	0.31	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Chloromethane	ND	ug/Kg	0.31	8260B	06/21/2005 1239	06/21/2005 1508	1.0
2-Chlorotoluene	ND	ug/Kg	0.32	8260B	06/21/2005 1239	06/21/2005 1508	1.0
4-Chlorotoluene	ND	ug/Kg	0.42	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Dibromochloromethane	ND	ug/Kg	0.23	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Dibromomethane	ND	ug/Kg	0.25	8260B	06/21/2005 1239	06/21/2005 1508	1.0
1,2-Dibromo-3-Chloropropane	ND	ug/Kg	0.52	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Ethylene Dibromide	ND	ug/Kg	0.67	8260B	06/21/2005 1239	06/21/2005 1508	1.0
1,2-Dichlorobenzene	ND	ug/Kg	0.38	8260B	06/21/2005 1239	06/21/2005 1508	1.0
1,3-Dichlorobenzene	ND	ug/Kg	0.38	8260B	06/21/2005 1239	06/21/2005 1508	1.0
1,4-Dichlorobenzene	ND	ug/Kg	0.44	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Dichlorodifluoromethane	ND	ug/Kg	0.11	8260B	06/21/2005 1239	06/21/2005 1508	1.0
1,1-Dichloroethane	ND	ug/Kg	0.26	8260B	06/21/2005 1239	06/21/2005 1508	1.0
1,1-Dichloroethene	ND	ug/Kg	0.15	8260B	06/21/2005 1239	06/21/2005 1508	1.0
1,2-Dichloroethane	ND	ug/Kg	0.27	8260B	06/21/2005 1239	06/21/2005 1508	1.0
cis-1,2-Dichloroethene	ND	ug/Kg	0.15	8260B	06/21/2005 1239	06/21/2005 1508	1.0
trans-1,2-Dichloroethene	ND	ug/Kg	0.17	8260B	06/21/2005 1239	06/21/2005 1508	1.0
1,2-Dichloropropane	ND	ug/Kg	0.32	8260B	06/21/2005 1239	06/21/2005 1508	1.0
1,3-Dichloropropane	ND	ug/Kg	0.33	8260B	06/21/2005 1239	06/21/2005 1508	1.0

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ARM
1210 1st Street South Extension
Columbia, SC 29209

Job Number: 400-3187-1
Lab Sample Id: 400-3187-1
Date Sampled: 06/14/2005 1700
Date Received: 06/17/2005 0920

Client Sample ID: SB-6

	Result/Qualifier	Unit	RL	Method	Date Prepared	Date Analyzed	Dilution
GC/MS VOA							
2,2-Dichloropropane	ND	ug/Kg	0.31	8260B	06/21/2005 1239	06/21/2005 1508	1.0
1,1-Dichloropropene	ND	ug/Kg	0.23	8260B	06/21/2005 1239	06/21/2005 1508	1.0
cis-1,3-Dichloropropene	ND	ug/Kg	0.23	8260B	06/21/2005 1239	06/21/2005 1508	1.0
trans-1,3-Dichloropropene	ND	ug/Kg	0.23	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Ethylbenzene	0.87 J	ug/Kg	0.21	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Hexachlorobutadiene	ND	ug/Kg	0.56	8260B	06/21/2005 1239	06/21/2005 1508	1.0
2-Hexanone	ND	ug/Kg	1.5	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Iodomethane	ND	ug/Kg	1.1	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Isopropylbenzene	ND	ug/Kg	0.19	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Isopropyl ether	ND *	ug/Kg	0.25	8260B	06/21/2005 1239	06/21/2005 1508	1.0
p-Cymene	ND	ug/Kg	0.38	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Methylene Chloride	ND	ug/Kg	0.21	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Methyl tert-butyl ether	ND	ug/Kg	0.28	8260B	06/21/2005 1239	06/21/2005 1508	1.0
4-Methyl-2-pentanone (MIBK)	ND	ug/Kg	1.7	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Naphthalene	ND	ug/Kg	0.67	8260B	06/21/2005 1239	06/21/2005 1508	1.0
n-Butylbenzene	ND	ug/Kg	0.42	8260B	06/21/2005 1239	06/21/2005 1508	1.0
sec-Butylbenzene	ND	ug/Kg	0.40	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Styrene	ND	ug/Kg	0.27	8260B	06/21/2005 1239	06/21/2005 1508	1.0
tert-Butylbenzene	ND	ug/Kg	0.34	8260B	06/21/2005 1239	06/21/2005 1508	1.0
1,1,1,2-Tetrachloroethane	ND	ug/Kg	0.22	8260B	06/21/2005 1239	06/21/2005 1508	1.0
1,1,2,2-Tetrachloroethane	ND	ug/Kg	0.55	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Tetrachloroethene	ND	ug/Kg	0.26	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Toluene	ND	ug/Kg	0.17	8260B	06/21/2005 1239	06/21/2005 1508	1.0
1,1,1-Trichloroethane	ND	ug/Kg	0.19	8260B	06/21/2005 1239	06/21/2005 1508	1.0
1,1,2-Trichloroethane	ND	ug/Kg	0.29	8260B	06/21/2005 1239	06/21/2005 1508	1.0
1,2,3-Trichlorobenzene	ND	ug/Kg	0.67	8260B	06/21/2005 1239	06/21/2005 1508	1.0
1,2,4-Trichlorobenzene	ND	ug/Kg	0.56	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Trichloroethene	ND	ug/Kg	0.17	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Trichlorofluoromethane	ND	ug/Kg	0.34	8260B	06/21/2005 1239	06/21/2005 1508	1.0
1,2,3-Trichloropropane	ND	ug/Kg	0.66	8260B	06/21/2005 1239	06/21/2005 1508	1.0
1,2,4-Trimethylbenzene	ND	ug/Kg	0.27	8260B	06/21/2005 1239	06/21/2005 1508	1.0

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ARM
1210 1st Street South Extension
Columbia, SC 29209

Job Number: 400-3187-1
Lab Sample Id: 400-3187-1
Date Sampled: 06/14/2005 1700
Date Received: 06/17/2005 0920

Client Sample ID: SB-6

	Result/Qualifier	Unit	RL	Method	Date Prepared	Date Analyzed	Dilution
GC/MS VOA							
1,3,5-Trimethylbenzene	ND	ug/Kg	0.32	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Vinyl acetate	ND	ug/Kg	0.62	8260B	06/21/2005 1239	06/21/2005 1508	1.0
Vinyl chloride	ND	ug/Kg	0.14	8260B	06/21/2005 1239	06/21/2005 1508	1.0
o-Xylene	ND	ug/Kg	0.34	8260B	06/21/2005 1239	06/21/2005 1508	1.0
m-Xylene & p-Xylene	ND	ug/Kg	0.48	8260B	06/21/2005 1239	06/21/2005 1508	1.0

ARM
1210 1st Street South Extension
Columbia, SC 29209

Job Number: 400-3187-1
Lab Sample Id: 400-3187-2
Date Sampled: 06/14/2005 1600
Date Received: 06/17/2005 0920

Client Sample ID: SB-10

	Result/Qualifier	Unit	RL	Method	Date Prepared	Date Analyzed	Dilution
GC/MS VOA							
Acetone	70	ug/Kg	2.5	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Benzene	ND	ug/Kg	0.37	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Bromobenzene	ND	ug/Kg	0.73	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Bromochloromethane	ND	ug/Kg	0.28	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Bromodichloromethane	ND	ug/Kg	0.34	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Bromoform	ND	ug/Kg	0.69	8260B	06/23/2005 1303	06/23/2005 1205	1.0
2-Butanone (MEK)	13	ug/Kg	2.6	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Carbon disulfide	6.5	ug/Kg	0.24	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Bromomethane	ND	ug/Kg	1.4	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Carbon tetrachloride	ND	ug/Kg	0.31	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Chlorobenzene	ND	ug/Kg	0.37	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Chloroethane	ND	ug/Kg	1.2	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Chloroform	ND	ug/Kg	0.46	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Chloromethane	ND	ug/Kg	0.46	8260B	06/23/2005 1303	06/23/2005 1205	1.0
2-Chlorotoluene	ND	ug/Kg	0.48	8260B	06/23/2005 1303	06/23/2005 1205	1.0
4-Chlorotoluene	ND	ug/Kg	0.62	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Dibromochloromethane	ND	ug/Kg	0.35	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Dibromomethane	ND	ug/Kg	0.38	8260B	06/23/2005 1303	06/23/2005 1205	1.0
1,2-Dibromo-3-Chloropropane	ND	ug/Kg	0.78	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Ethylene Dibromide	ND	ug/Kg	1.0	8260B	06/23/2005 1303	06/23/2005 1205	1.0
1,2-Dichlorobenzene	ND	ug/Kg	0.56	8260B	06/23/2005 1303	06/23/2005 1205	1.0
1,3-Dichlorobenzene	ND	ug/Kg	0.56	8260B	06/23/2005 1303	06/23/2005 1205	1.0
1,4-Dichlorobenzene	ND	ug/Kg	0.66	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Dichlorodifluoromethane	ND	ug/Kg	0.16	8260B	06/23/2005 1303	06/23/2005 1205	1.0
1,1-Dichloroethane	ND	ug/Kg	0.39	8260B	06/23/2005 1303	06/23/2005 1205	1.0
1,1-Dichloroethene	ND	ug/Kg	0.23	8260B	06/23/2005 1303	06/23/2005 1205	1.0
1,2-Dichloroethane	ND	ug/Kg	0.41	8260B	06/23/2005 1303	06/23/2005 1205	1.0
cis-1,2-Dichloroethene	ND	ug/Kg	0.23	8260B	06/23/2005 1303	06/23/2005 1205	1.0
trans-1,2-Dichloroethene	ND	ug/Kg	0.26	8260B	06/23/2005 1303	06/23/2005 1205	1.0
1,2-Dichloropropane	ND	ug/Kg	0.47	8260B	06/23/2005 1303	06/23/2005 1205	1.0
1,3-Dichloropropane	ND	ug/Kg	0.49	8260B	06/23/2005 1303	06/23/2005 1205	1.0

STL Pensacola

ARM
1210 1st Street South Extension
Columbia, SC 29209

Job Number: 400-3187-1
Lab Sample Id: 400-3187-2
Date Sampled: 06/14/2005 1600
Date Received: 06/17/2005 0920

Client Sample ID: SB-10

	Result/Qualifier	Unit	RL	Method	Date Prepared	Date Analyzed	Dilution
GC/MS VOA							
2,2-Dichloropropane	ND	ug/Kg	0.46	8260B	06/23/2005 1303	06/23/2005 1205	1.0
1,1-Dichloropropene	ND	ug/Kg	0.34	8260B	06/23/2005 1303	06/23/2005 1205	1.0
cis-1,3-Dichloropropene	ND	ug/Kg	0.34	8260B	06/23/2005 1303	06/23/2005 1205	1.0
trans-1,3-Dichloropropene	ND	ug/Kg	0.35	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Ethylbenzene	0.41 J	ug/Kg	0.31	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Hexachlorobutadiene	ND	ug/Kg	0.84	8260B	06/23/2005 1303	06/23/2005 1205	1.0
2-Hexanone	ND	ug/Kg	2.3	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Iodomethane	ND	ug/Kg	1.7	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Isopropylbenzene	ND	ug/Kg	0.28	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Isopropyl ether	ND	ug/Kg	0.38	8260B	06/23/2005 1303	06/23/2005 1205	1.0
p-Cymene	ND	ug/Kg	0.56	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Methylene Chloride	ND	ug/Kg	0.32	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Methyl tert-butyl ether	ND	ug/Kg	0.42	8260B	06/23/2005 1303	06/23/2005 1205	1.0
4-Methyl-2-pentanone (MIBK)	ND	ug/Kg	2.6	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Naphthalene	ND	ug/Kg	1.0	8260B	06/23/2005 1303	06/23/2005 1205	1.0
n-Butylbenzene	ND	ug/Kg	0.62	8260B	06/23/2005 1303	06/23/2005 1205	1.0
sec-Butylbenzene	ND	ug/Kg	0.60	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Styrene	ND	ug/Kg	0.41	8260B	06/23/2005 1303	06/23/2005 1205	1.0
tert-Butylbenzene	ND	ug/Kg	0.51	8260B	06/23/2005 1303	06/23/2005 1205	1.0
1,1,1,2-Tetrachloroethane	ND	ug/Kg	0.33	8260B	06/23/2005 1303	06/23/2005 1205	1.0
1,1,2,2-Tetrachloroethane	ND	ug/Kg	0.82	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Tetrachloroethene	ND	ug/Kg	0.39	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Toluene	ND	ug/Kg	0.25	8260B	06/23/2005 1303	06/23/2005 1205	1.0
1,1,1-Trichloroethane	ND	ug/Kg	0.29	8260B	06/23/2005 1303	06/23/2005 1205	1.0
1,1,2-Trichloroethane	ND	ug/Kg	0.43	8260B	06/23/2005 1303	06/23/2005 1205	1.0
1,2,3-Trichlorobenzene	ND	ug/Kg	1.0	8260B	06/23/2005 1303	06/23/2005 1205	1.0
1,2,4-Trichlorobenzene	ND	ug/Kg	0.84	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Trichloroethene	ND	ug/Kg	0.25	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Trichlorofluoromethane	ND	ug/Kg	0.51	8260B	06/23/2005 1303	06/23/2005 1205	1.0
1,2,3-Trichloropropane	ND	ug/Kg	0.98	8260B	06/23/2005 1303	06/23/2005 1205	1.0
1,2,4-Trimethylbenzene	ND	ug/Kg	0.41	8260B	06/23/2005 1303	06/23/2005 1205	1.0

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ARM
1210 1st Street South Extension
Columbia, SC 29209

Job Number: 400-3187-1
Lab Sample Id: 400-3187-2
Date Sampled: 06/14/2005 1600
Date Received: 06/17/2005 0920

Client Sample ID: SB-10

	Result/Qualifier	Unit	RL	Method	Date Prepared	Date Analyzed	Dilution
GC/MS VOA							
1,3,5-Trimethylbenzene	ND	ug/Kg	0.48	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Vinyl acetate	ND	ug/Kg	0.92	8260B	06/23/2005 1303	06/23/2005 1205	1.0
Vinyl chloride	ND	ug/Kg	0.21	8260B	06/23/2005 1303	06/23/2005 1205	1.0
o-Xylene	ND	ug/Kg	0.50	8260B	06/23/2005 1303	06/23/2005 1205	1.0
m-Xylene & p-Xylene	ND	ug/Kg	0.71	8260B	06/23/2005 1303	06/23/2005 1205	1.0

ARM
1210 1st Street South Extension
Columbia, SC 29209

Job Number: 400-3187-1
Lab Sample Id: 400-3187-3
Date Sampled: 06/14/2005 1030
Date Received: 06/17/2005 0920

Client Sample ID: SB-12

	Result/Qualifier	Unit	RL	Method	Date Prepared	Date Analyzed	Dilution
GC/MS VOA							
Acetone	ND	ug/Kg	110	8260B	06/21/2005 1239	06/21/2005 1724	50
Benzene	ND	ug/Kg	17	8260B	06/21/2005 1239	06/21/2005 1724	50
Bromobenzene	ND	ug/Kg	33	8260B	06/21/2005 1239	06/21/2005 1724	50
Bromochloromethane	ND	ug/Kg	13	8260B	06/21/2005 1239	06/21/2005 1724	50
Bromodichloromethane	ND	ug/Kg	16	8260B	06/21/2005 1239	06/21/2005 1724	50
Bromoform	ND	ug/Kg	31	8260B	06/21/2005 1239	06/21/2005 1724	50
2-Butanone (MEK)	ND	ug/Kg	120	8260B	06/21/2005 1239	06/21/2005 1724	50
Carbon disulfide	ND	ug/Kg	11	8260B	06/21/2005 1239	06/21/2005 1724	50
Bromomethane	ND	ug/Kg	64	8260B	06/21/2005 1239	06/21/2005 1724	50
Carbon tetrachloride	ND	ug/Kg	14	8260B	06/21/2005 1239	06/21/2005 1724	50
Chlorobenzene	ND	ug/Kg	17	8260B	06/21/2005 1239	06/21/2005 1724	50
Chloroethane	ND	ug/Kg	55	8260B	06/21/2005 1239	06/21/2005 1724	50
Chloroform	ND	ug/Kg	21	8260B	06/21/2005 1239	06/21/2005 1724	50
Chloromethane	ND	ug/Kg	21	8260B	06/21/2005 1239	06/21/2005 1724	50
2-Chlorotoluene	ND	ug/Kg	22	8260B	06/21/2005 1239	06/21/2005 1724	50
4-Chlorotoluene	ND	ug/Kg	28	8260B	06/21/2005 1239	06/21/2005 1724	50
Dibromochloromethane	ND	ug/Kg	16	8260B	06/21/2005 1239	06/21/2005 1724	50
Dibromomethane	ND	ug/Kg	17	8260B	06/21/2005 1239	06/21/2005 1724	50
1,2-Dibromo-3-Chloropropane	ND	ug/Kg	36	8260B	06/21/2005 1239	06/21/2005 1724	50
Ethylene Dibromide	ND	ug/Kg	46	8260B	06/21/2005 1239	06/21/2005 1724	50
1,2-Dichlorobenzene	ND	ug/Kg	26	8260B	06/21/2005 1239	06/21/2005 1724	50
1,3-Dichlorobenzene	ND	ug/Kg	26	8260B	06/21/2005 1239	06/21/2005 1724	50
1,4-Dichlorobenzene	ND	ug/Kg	30	8260B	06/21/2005 1239	06/21/2005 1724	50
Dichlorodifluoromethane	ND	ug/Kg	7.3	8260B	06/21/2005 1239	06/21/2005 1724	50
1,1-Dichloroethane	ND	ug/Kg	18	8260B	06/21/2005 1239	06/21/2005 1724	50
1,1-Dichloroethene	ND	ug/Kg	10	8260B	06/21/2005 1239	06/21/2005 1724	50
1,2-Dichloroethane	ND	ug/Kg	19	8260B	06/21/2005 1239	06/21/2005 1724	50
cis-1,2-Dichloroethene	ND	ug/Kg	10	8260B	06/21/2005 1239	06/21/2005 1724	50
trans-1,2-Dichloroethene	ND	ug/Kg	12	8260B	06/21/2005 1239	06/21/2005 1724	50
1,2-Dichloropropane	ND	ug/Kg	21	8260B	06/21/2005 1239	06/21/2005 1724	50
1,3-Dichloropropane	ND	ug/Kg	22	8260B	06/21/2005 1239	06/21/2005 1724	50

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Job Number: 400-3187-1
Lab Sample Id: 400-3187-3
Date Sampled: 06/14/2005 1030
Date Received: 06/17/2005 0920

Client Sample ID: SB-12

	Result/Qualifier	Unit	RL	Method	Date Prepared	Date Analyzed	Dilution
GC/MS VOA							
2,2-Dichloropropane	ND	ug/Kg	21	8260B	06/21/2005 1239	06/21/2005 1724	50
1,1-Dichloropropene	ND	ug/Kg	16	8260B	06/21/2005 1239	06/21/2005 1724	50
cis-1,3-Dichloropropene	ND	ug/Kg	16	8260B	06/21/2005 1239	06/21/2005 1724	50
trans-1,3-Dichloropropene	ND	ug/Kg	16	8260B	06/21/2005 1239	06/21/2005 1724	50
Ethylbenzene	260	ug/Kg	14	8260B	06/21/2005 1239	06/21/2005 1724	50
Hexachlorobutadiene	ND	ug/Kg	38	8260B	06/21/2005 1239	06/21/2005 1724	50
2-Hexanone	ND	ug/Kg	100	8260B	06/21/2005 1239	06/21/2005 1724	50
Iodomethane	ND	ug/Kg	78	8260B	06/21/2005 1239	06/21/2005 1724	50
Isopropylbenzene	84 J	ug/Kg	13	8260B	06/21/2005 1239	06/21/2005 1724	50
Isopropyl ether	ND *	ug/Kg	17	8260B	06/21/2005 1239	06/21/2005 1724	50
p-Cymene	65 J	ug/Kg	26	8260B	06/21/2005 1239	06/21/2005 1724	50
Methylene Chloride	ND	ug/Kg	15	8260B	06/21/2005 1239	06/21/2005 1724	50
Methyl tert-butyl ether	ND	ug/Kg	19	8260B	06/21/2005 1239	06/21/2005 1724	50
4-Methyl-2-pentanone (MIBK)	ND	ug/Kg	120	8260B	06/21/2005 1239	06/21/2005 1724	50
Naphthalene	2200	ug/Kg	46	8260B	06/21/2005 1239	06/21/2005 1724	50
n-Butylbenzene	ND	ug/Kg	28	8260B	06/21/2005 1239	06/21/2005 1724	50
sec-Butylbenzene	82 J	ug/Kg	27	8260B	06/21/2005 1239	06/21/2005 1724	50
Styrene	ND	ug/Kg	19	8260B	06/21/2005 1239	06/21/2005 1724	50
tert-Butylbenzene	ND	ug/Kg	23	8260B	06/21/2005 1239	06/21/2005 1724	50
1,1,1,2-Tetrachloroethane	ND	ug/Kg	15	8260B	06/21/2005 1239	06/21/2005 1724	50
1,1,2,2-Tetrachloroethane	ND	ug/Kg	37	8260B	06/21/2005 1239	06/21/2005 1724	50
Tetrachloroethene	ND	ug/Kg	18	8260B	06/21/2005 1239	06/21/2005 1724	50
Toluene	38 J	ug/Kg	11	8260B	06/21/2005 1239	06/21/2005 1724	50
1,1,1-Trichloroethane	ND	ug/Kg	13	8260B	06/21/2005 1239	06/21/2005 1724	50
1,1,2-Trichloroethane	ND	ug/Kg	20	8260B	06/21/2005 1239	06/21/2005 1724	50
1,2,3-Trichlorobenzene	ND	ug/Kg	46	8260B	06/21/2005 1239	06/21/2005 1724	50
1,2,4-Trichlorobenzene	ND	ug/Kg	38	8260B	06/21/2005 1239	06/21/2005 1724	50
Trichloroethene	ND	ug/Kg	11	8260B	06/21/2005 1239	06/21/2005 1724	50
Trichlorofluoromethane	ND	ug/Kg	23	8260B	06/21/2005 1239	06/21/2005 1724	50
1,2,3-Trichloropropane	ND	ug/Kg	45	8260B	06/21/2005 1239	06/21/2005 1724	50
1,2,4-Trimethylbenzene	3100	ug/Kg	19	8260B	06/21/2005 1239	06/21/2005 1724	50

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Job Number: 400-3187-1
Lab Sample Id: 400-3187-3
Date Sampled: 06/14/2005 1030
Date Received: 06/17/2005 0920

Client Sample ID: SB-12

	Result/Qualifier	Unit	RL	Method	Date Prepared	Date Analyzed	Dilution
GC/MS VOA							
1,3,5-Trimethylbenzene	ND	ug/Kg	22	8260B	06/21/2005 1239	06/21/2005 1724	50
Vinyl acetate	ND	ug/Kg	42	8260B	06/21/2005 1239	06/21/2005 1724	50
Vinyl chloride	ND	ug/Kg	9.6	8260B	06/21/2005 1239	06/21/2005 1724	50
o-Xylene	240	ug/Kg	23	8260B	06/21/2005 1239	06/21/2005 1724	50
m-Xylene & p-Xylene	770	ug/Kg	32	8260B	06/21/2005 1239	06/21/2005 1724	50

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Job Number: 400-3187-1
Lab Sample Id: 400-3187-4
Date Sampled: 06/15/2005 1500
Date Received: 06/17/2005 0920

Client Sample ID: SB-17

	Result/Qualifier	Unit	RL	Method	Date Prepared	Date Analyzed	Dilution
GC/MS VOA							
Acetone	100	ug/Kg	2.0	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Benzene	ND	ug/Kg	0.30	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Bromobenzene	ND	ug/Kg	0.58	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Bromochloromethane	ND	ug/Kg	0.22	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Bromodichloromethane	ND	ug/Kg	0.27	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Bromoform	ND	ug/Kg	0.55	8260B	06/21/2005 1239	06/21/2005 1547	1.0
2-Butanone (MEK)	20	ug/Kg	2.1	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Carbon disulfide	1.6 J	ug/Kg	0.19	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Bromomethane	ND	ug/Kg	1.1	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Carbon tetrachloride	ND	ug/Kg	0.25	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Chlorobenzene	ND	ug/Kg	0.30	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Chloroethane	ND	ug/Kg	0.96	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Chloroform	ND	ug/Kg	0.37	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Chloromethane	ND	ug/Kg	0.37	8260B	06/21/2005 1239	06/21/2005 1547	1.0
2-Chlorotoluene	ND	ug/Kg	0.38	8260B	06/21/2005 1239	06/21/2005 1547	1.0
4-Chlorotoluene	ND	ug/Kg	0.50	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Dibromochloromethane	ND	ug/Kg	0.28	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Dibromomethane	ND	ug/Kg	0.30	8260B	06/21/2005 1239	06/21/2005 1547	1.0
1,2-Dibromo-3-Chloropropane	ND	ug/Kg	0.62	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Ethylene Dibromide	ND	ug/Kg	0.80	8260B	06/21/2005 1239	06/21/2005 1547	1.0
1,2-Dichlorobenzene	ND	ug/Kg	0.45	8260B	06/21/2005 1239	06/21/2005 1547	1.0
1,3-Dichlorobenzene	ND	ug/Kg	0.45	8260B	06/21/2005 1239	06/21/2005 1547	1.0
1,4-Dichlorobenzene	ND	ug/Kg	0.53	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Dichlorodifluoromethane	ND	ug/Kg	0.13	8260B	06/21/2005 1239	06/21/2005 1547	1.0
1,1-Dichloroethane	ND	ug/Kg	0.31	8260B	06/21/2005 1239	06/21/2005 1547	1.0
1,1-Dichloroethene	ND	ug/Kg	0.18	8260B	06/21/2005 1239	06/21/2005 1547	1.0
1,2-Dichloroethane	ND	ug/Kg	0.33	8260B	06/21/2005 1239	06/21/2005 1547	1.0
cis-1,2-Dichloroethene	ND	ug/Kg	0.18	8260B	06/21/2005 1239	06/21/2005 1547	1.0
trans-1,2-Dichloroethene	ND	ug/Kg	0.21	8260B	06/21/2005 1239	06/21/2005 1547	1.0
1,2-Dichloropropane	ND	ug/Kg	0.38	8260B	06/21/2005 1239	06/21/2005 1547	1.0
1,3-Dichloropropane	ND	ug/Kg	0.39	8260B	06/21/2005 1239	06/21/2005 1547	1.0

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Job Number: 400-3187-1
Lab Sample Id: 400-3187-4
Date Sampled: 06/15/2005 1500
Date Received: 06/17/2005 0920

Client Sample ID: SB-17

	Result/Qualifier	Unit	RL	Method	Date Prepared	Date Analyzed	Dilution
GC/MS VOA							
2,2-Dichloropropane	ND	ug/Kg	0.37	8260B	06/21/2005 1239	06/21/2005 1547	1.0
1,1-Dichloropropene	ND	ug/Kg	0.27	8260B	06/21/2005 1239	06/21/2005 1547	1.0
cis-1,3-Dichloropropene	ND	ug/Kg	0.27	8260B	06/21/2005 1239	06/21/2005 1547	1.0
trans-1,3-Dichloropropene	ND	ug/Kg	0.28	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Ethylbenzene	1.6 J	ug/Kg	0.25	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Hexachlorobutadiene	ND	ug/Kg	0.67	8260B	06/21/2005 1239	06/21/2005 1547	1.0
2-Hexanone	ND	ug/Kg	1.8	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Iodomethane	ND	ug/Kg	1.4	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Isopropylbenzene	0.47 J	ug/Kg	0.22	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Isopropyl ether	ND *	ug/Kg	0.30	8260B	06/21/2005 1239	06/21/2005 1547	1.0
p-Cymene	ND	ug/Kg	0.45	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Methylene Chloride	ND	ug/Kg	0.26	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Methyl tert-butyl ether	ND	ug/Kg	0.34	8260B	06/21/2005 1239	06/21/2005 1547	1.0
4-Methyl-2-pentanone (MIBK)	ND	ug/Kg	2.1	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Naphthalene	ND	ug/Kg	0.80	8260B	06/21/2005 1239	06/21/2005 1547	1.0
n-Butylbenzene	ND	ug/Kg	0.50	8260B	06/21/2005 1239	06/21/2005 1547	1.0
sec-Butylbenzene	ND	ug/Kg	0.48	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Styrene	ND	ug/Kg	0.33	8260B	06/21/2005 1239	06/21/2005 1547	1.0
tert-Butylbenzene	ND	ug/Kg	0.41	8260B	06/21/2005 1239	06/21/2005 1547	1.0
1,1,1,2-Tetrachloroethane	ND	ug/Kg	0.26	8260B	06/21/2005 1239	06/21/2005 1547	1.0
1,1,2,2-Tetrachloroethane	ND	ug/Kg	0.65	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Tetrachloroethene	ND	ug/Kg	0.31	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Toluene	ND	ug/Kg	0.20	8260B	06/21/2005 1239	06/21/2005 1547	1.0
1,1,1-Trichloroethane	ND	ug/Kg	0.23	8260B	06/21/2005 1239	06/21/2005 1547	1.0
1,1,2-Trichloroethane	ND	ug/Kg	0.34	8260B	06/21/2005 1239	06/21/2005 1547	1.0
1,2,3-Trichlorobenzene	ND	ug/Kg	0.80	8260B	06/21/2005 1239	06/21/2005 1547	1.0
1,2,4-Trichlorobenzene	ND	ug/Kg	0.67	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Trichloroethene	ND	ug/Kg	0.20	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Trichlorofluoromethane	ND	ug/Kg	0.41	8260B	06/21/2005 1239	06/21/2005 1547	1.0
1,2,3-Trichloropropane	ND	ug/Kg	0.78	8260B	06/21/2005 1239	06/21/2005 1547	1.0
1,2,4-Trimethylbenzene	ND	ug/Kg	0.33	8260B	06/21/2005 1239	06/21/2005 1547	1.0

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Job Number: 400-3187-1
Lab Sample Id: 400-3187-4
Date Sampled: 06/15/2005 1500
Date Received: 06/17/2005 0920

Client Sample ID: SB-17

	Result/Qualifier	Unit	RL	Method	Date Prepared	Date Analyzed	Dilution
GC/MS VOA							
1,3,5-Trimethylbenzene	ND	ug/Kg	0.38	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Vinyl acetate	ND	ug/Kg	0.73	8260B	06/21/2005 1239	06/21/2005 1547	1.0
Vinyl chloride	ND	ug/Kg	0.17	8260B	06/21/2005 1239	06/21/2005 1547	1.0
o-Xylene	2.7 J	ug/Kg	0.40	8260B	06/21/2005 1239	06/21/2005 1547	1.0
m-Xylene & p-Xylene	6.4	ug/Kg	0.57	8260B	06/21/2005 1239	06/21/2005 1547	1.0

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Job Number: 400-3187-1
Lab Sample Id: 400-3187-5
Date Sampled: 06/15/2005 1130
Date Received: 06/17/2005 0920

Client Sample ID: SB-19

	Result/Qualifier	Unit	RL	Method	Date Prepared	Date Analyzed	Dilution
GC/MS VOA							
Acetone	ND	ug/Kg	180	8260B	06/21/2005 1239	06/21/2005 1743	100
Benzene	300 J	ug/Kg	26	8260B	06/21/2005 1239	06/21/2005 1743	100
Bromobenzene	ND	ug/Kg	52	8260B	06/21/2005 1239	06/21/2005 1743	100
Bromochloromethane	ND	ug/Kg	20	8260B	06/21/2005 1239	06/21/2005 1743	100
Bromodichloromethane	ND	ug/Kg	24	8260B	06/21/2005 1239	06/21/2005 1743	100
Bromoform	ND	ug/Kg	49	8260B	06/21/2005 1239	06/21/2005 1743	100
2-Butanone (MEK)	ND	ug/Kg	190	8260B	06/21/2005 1239	06/21/2005 1743	100
Carbon disulfide	ND	ug/Kg	17	8260B	06/21/2005 1239	06/21/2005 1743	100
Bromomethane	ND	ug/Kg	100	8260B	06/21/2005 1239	06/21/2005 1743	100
Carbon tetrachloride...	ND	ug/Kg	22	8260B	06/21/2005 1239	06/21/2005 1743	100
Chlorobenzene	ND	ug/Kg	26	8260B	06/21/2005 1239	06/21/2005 1743	100
Chloroethane	ND	ug/Kg	86	8260B	06/21/2005 1239	06/21/2005 1743	100
Chloroform	ND	ug/Kg	33	8260B	06/21/2005 1239	06/21/2005 1743	100
Chloromethane	ND	ug/Kg	33	8260B	06/21/2005 1239	06/21/2005 1743	100
2-Chlorotoluene	ND	ug/Kg	34	8260B	06/21/2005 1239	06/21/2005 1743	100
4-Chlorotoluene	ND	ug/Kg	44	8260B	06/21/2005 1239	06/21/2005 1743	100
Dibromochloromethane	ND	ug/Kg	25	8260B	06/21/2005 1239	06/21/2005 1743	100
Dibromomethane	ND	ug/Kg	27	8260B	06/21/2005 1239	06/21/2005 1743	100
1,2-Dibromo-3-Chloropropane	ND	ug/Kg	56	8260B	06/21/2005 1239	06/21/2005 1743	100
Ethylene Dibromide	ND	ug/Kg	71	8260B	06/21/2005 1239	06/21/2005 1743	100
1,2-Dichlorobenzene	ND	ug/Kg	40	8260B	06/21/2005 1239	06/21/2005 1743	100
1,3-Dichlorobenzene	ND	ug/Kg	40	8260B	06/21/2005 1239	06/21/2005 1743	100
1,4-Dichlorobenzene	ND	ug/Kg	47	8260B	06/21/2005 1239	06/21/2005 1743	100
Dichlorodifluoromethane	ND	ug/Kg	11	8260B	06/21/2005 1239	06/21/2005 1743	100
1,1-Dichloroethane	ND	ug/Kg	28	8260B	06/21/2005 1239	06/21/2005 1743	100
1,1-Dichloroethene	ND	ug/Kg	16	8260B	06/21/2005 1239	06/21/2005 1743	100
1,2-Dichloroethane	ND	ug/Kg	29	8260B	06/21/2005 1239	06/21/2005 1743	100
cis-1,2-Dichloroethene	ND	ug/Kg	16	8260B	06/21/2005 1239	06/21/2005 1743	100
trans-1,2-Dichloroethene	ND	ug/Kg	19	8260B	06/21/2005 1239	06/21/2005 1743	100
1,2-Dichloropropane	ND	ug/Kg	34	8260B	06/21/2005 1239	06/21/2005 1743	100
1,3-Dichloropropane	ND	ug/Kg	35	8260B	06/21/2005 1239	06/21/2005 1743	100

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Job Number: 400-3187-1
Lab Sample Id: 400-3187-5
Date Sampled: 06/15/2005 1130
Date Received: 06/17/2005 0920

Client Sample ID: SB-19

	Result/Qualifier	Unit	RL	Method	Date Prepared	Date Analyzed	Dilution
GC/MS VOA							
2,2-Dichloropropane	ND	ug/Kg	33	8260B	06/21/2005 1239	06/21/2005 1743	100
1,1-Dichloropropene	ND	ug/Kg	24	8260B	06/21/2005 1239	06/21/2005 1743	100
cis-1,3-Dichloropropene	ND	ug/Kg	24	8260B	06/21/2005 1239	06/21/2005 1743	100
trans-1,3-Dichloropropene	ND	ug/Kg	25	8260B	06/21/2005 1239	06/21/2005 1743	100
Ethylbenzene	13000	ug/Kg	22	8260B	06/21/2005 1239	06/21/2005 1743	100
Hexachlorobutadiene	ND	ug/Kg	60	8260B	06/21/2005 1239	06/21/2005 1743	100
2-Hexanone	ND	ug/Kg	160	8260B	06/21/2005 1239	06/21/2005 1743	100
Iodomethane	ND	ug/Kg	120	8260B	06/21/2005 1239	06/21/2005 1743	100
Isopropylbenzene	2700	ug/Kg	20	8260B	06/21/2005 1239	06/21/2005 1743	100
Isopropyl ether	ND *	ug/Kg	27	8260B	06/21/2005 1239	06/21/2005 1743	100
p-Cymene	620	ug/Kg	40	8260B	06/21/2005 1239	06/21/2005 1743	100
Methylene Chloride	ND	ug/Kg	23	8260B	06/21/2005 1239	06/21/2005 1743	100
Methyl tert-butyl ether	ND	ug/Kg	30	8260B	06/21/2005 1239	06/21/2005 1743	100
4-Methyl-2-pentanone (MIBK)	ND	ug/Kg	190	8260B	06/21/2005 1239	06/21/2005 1743	100
Naphthalene	5600	ug/Kg	71	8260B	06/21/2005 1239	06/21/2005 1743	100
n-Butylbenzene	2900	ug/Kg	44	8260B	06/21/2005 1239	06/21/2005 1743	100
sec-Butylbenzene	1000	ug/Kg	43	8260B	06/21/2005 1239	06/21/2005 1743	100
Styrene	ND	ug/Kg	29	8260B	06/21/2005 1239	06/21/2005 1743	100
tert-Butylbenzene	ND	ug/Kg	36	8260B	06/21/2005 1239	06/21/2005 1743	100
1,1,1,2-Tetrachloroethane	ND	ug/Kg	24	8260B	06/21/2005 1239	06/21/2005 1743	100
1,1,2,2-Tetrachloroethane	ND	ug/Kg	59	8260B	06/21/2005 1239	06/21/2005 1743	100
Tetrachloroethene	ND	ug/Kg	28	8260B	06/21/2005 1239	06/21/2005 1743	100
Toluene	51 J	ug/Kg	18	8260B	06/21/2005 1239	06/21/2005 1743	100
1,1,1-Trichloroethane	ND	ug/Kg	21	8260B	06/21/2005 1239	06/21/2005 1743	100
1,1,2-Trichloroethane	ND	ug/Kg	31	8260B	06/21/2005 1239	06/21/2005 1743	100
1,2,3-Trichlorobenzene	ND	ug/Kg	71	8260B	06/21/2005 1239	06/21/2005 1743	100
1,2,4-Trichlorobenzene	ND	ug/Kg	60	8260B	06/21/2005 1239	06/21/2005 1743	100
Trichloroethene	ND	ug/Kg	18	8260B	06/21/2005 1239	06/21/2005 1743	100
Trichlorofluoromethane	ND	ug/Kg	36	8260B	06/21/2005 1239	06/21/2005 1743	100
1,2,3-Trichloropropane	ND	ug/Kg	70	8260B	06/21/2005 1239	06/21/2005 1743	100
1,2,4-Trimethylbenzene	14000	ug/Kg	29	8260B	06/21/2005 1239	06/21/2005 1743	100

STL Pensacola

ARM
1210 1st Street South Extension
Columbia, SC 29209

Job Number: 400-3187-1
Lab Sample Id: 400-3187-5
Date Sampled: 06/15/2005 1130
Date Received: 06/17/2005 0920

Client Sample ID: SB-19

	Result/Qualifier	Unit	RL	Method	Date Prepared	Date Analyzed	Dilution
GC/MS VOA							
1,3,5-Trimethylbenzene	ND	ug/Kg	34	8260B	06/21/2005 1239	06/21/2005 1743	100
Vinyl acetate	ND	ug/Kg	66	8260B	06/21/2005 1239	06/21/2005 1743	100
Vinyl chloride	ND	ug/Kg	15	8260B	06/21/2005 1239	06/21/2005 1743	100
o-Xylene	ND J	ug/Kg	36	8260B	06/21/2005 1239	06/21/2005 1743	100
m-Xylene & p-Xylene	2100	ug/Kg	51	8260B	06/21/2005 1239	06/21/2005 1743	100

DATA REPORTING QUALIFIERS

Client: ARM

Job Number: 400-3187-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS, LCSD, MS, MSD, MD, or Surrogate exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

400-3187

FAX 803-783-258

[illegible]