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SECOND QUARTER 2003 OPERATION AND MAINTENANCE STATUS REPORT FOR BIOSPARGING AND SOIL VAPOR EXTRACTION SYSTEM AT DAY TANK 1 SITE NAS CECIL FIELD FL

11/1/2003

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SECOND QUARTER 2003
Operation and Maintenance Status Report
April 1, 2003 – June 30, 2003

BIOSPARGING AND SOIL VAPOR EXTRACTION SYSTEM
DAY TANK 1 SITE

Contract No. N62467-02-G-0352
Contract Task Order No. 0001

Naval Air Station Cecil Field
Jacksonville, Florida

Submitted to:

U.S. Naval Facilities Engineering Command Southern Division

Prepared by:

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November 2003

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Signature Page

I, James L. Young, do hereby affirm that the information contained in this report is accurate and correct to the best of my knowledge and belief.

_____		PG-FL2090, REM-6089
James L. Young, P.G., REM President/CEO TERRAINE, Inc	Date	Registration Nos.

Acronyms

ABB-ES	ABB Environmental Services, Inc.
acfh	actual cubic feet per hour
acfm	actual cubic feet per minute
AST	Aboveground Storage Tank
bls	below land surface
CCI	CH2M HILL Constructors, Inc.
CLEAN	Comprehensive Long-Term Environmental Action, Navy
CTO	Contract Task Order
DO	Dissolved Oxygen
EPA	U.S. Environmental Protection Agency
FAC	Florida Administrative Code
GCT	Groundwater Cleanup Target Levels
J.A. Jones	J.A. Jones Environmental Services
LNAPL	Light Non-Aqueous Phase Liquids
NAS	Naval Air Station
NAVFAC	Naval Facilities Engineering Command
O&M	Operation and Maintenance
PRO	Petroleum Range Organics
psi	pounds per square inch
RAP	Remedial Action Plan
SVOA	Semi-Volatile Organic Aromatics
TERRAINE	Terraine Environmental Services, Inc.
TtNUS	TetraTech NUS, Inc.
VCS	Vapor Collection System
VEW	Vapor Extraction Well
VOA	Volatile Organic Aromatics
VOC	Volatile Organic Compounds

1.0 Introduction

Terraine, Inc. (TERRAINE) has been contracted by the Department of the Navy, Southern Division, Naval Facilities Engineering Command (NAVFAC), to provide Operation and Maintenance (O&M) services at Day Tank 1, Naval Air Station (NAS) Cecil Field, Jacksonville, Florida, under **Basic Ordering Agreement (BOA) Contract No. N62467-02-G-0352, Contract Task Order (CTO) No. 0001.** The purpose of this O&M Report is to provide a summary of activities performed at the site during the period of April 1 to June 30, 2003.

1.1 Objective

The objective of the remedial action at the site of Day Tank 1 is to reduce the concentrations of petroleum-related contaminants in the groundwater and unsaturated soils to target levels specified by Chapter 62-777 Florida Administrative Code (FAC). Biosparging/vapor collection is the technology being utilized to achieve this objective.

1.2 Site History

The Day Tank 1 site is located at the former NAS Cecil Field, approximately 1/8 mile south of the "A" Avenue gate on Jet Road. The site formerly contained a 200,000-gallon aboveground storage tank (AST), piping, and associated equipment to supply jet propellant fuel to the high-speed refuelers located on the flightline. It was reported that numerous spills occurred at the site over the course of the operation of the fuel delivery system (ABB Environmental Services, Inc. [ABB-ES], 1997). ABB-ES completed a contamination assessment for the facility in 1996, which documented the presence of petroleum-contaminated soil and groundwater at the site. A Remedial Action Plan (RAP) was subsequently developed by ABB-ES in 1997 for the excavation of 20,000 tons of petroleum-contaminated soil and the installation of a biosparging/vapor collection remediation system to address the contaminated groundwater at the site. In November 1999, CCI/J.A. Jones Environmental Services (J.A. Jones) removed the AST along with 24,000 tons of contaminated soil under Response Action Contract No. N62467-98-D-0995, CTO No. 0002 (CCI, 2000). The biosparge/vapor collection, and start-up was performed on February 29, 2000. The system was operated and maintained by CCI/J.A. Jones under Response Action Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0002 for the first year of operation and then operated and maintained by CCI/J.A. Jones under Response Action Contract No. N62467-98-D-0995, CTO No. 0062. Currently, TERRAINE Environmental Services is operating and maintaining the system under Response Action Contract No. N62467-02-G-0352, CTO No. 0001.

1.3 Remediation System/Technology Description

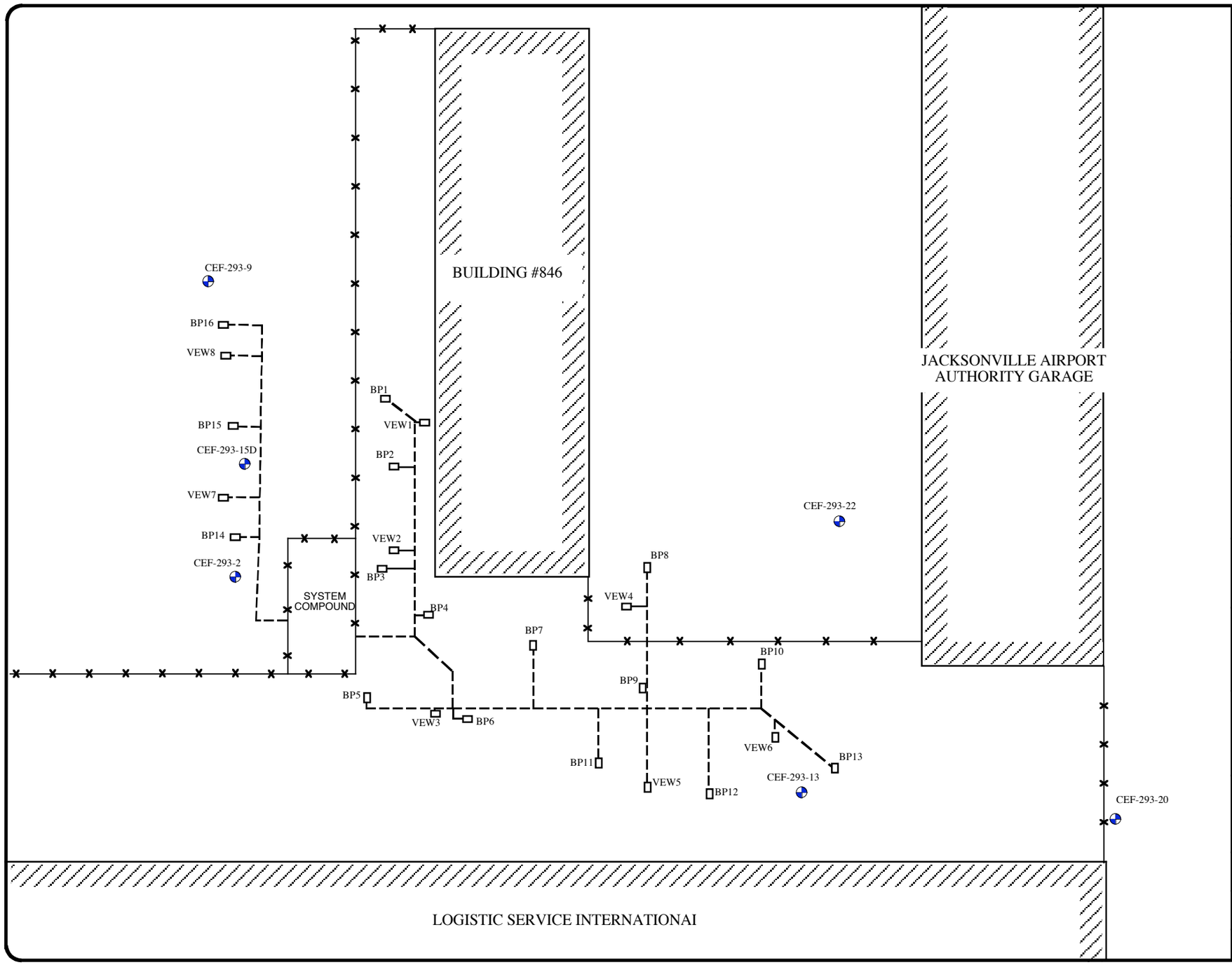
The chosen Vapor Collection System (VCS) technology utilizes the injection of compressed air into the groundwater to volatilize and promote biodegradation of dissolved organic

compounds. The VCS was installed to recover the undissolved portion of the injected air as well as any volatized hydrocarbons.

The Biosparge System consists of 16 injection wells that are screened from 32 to 35 feet below land surface (bls), a rotary screw-type compressor, a receiver tank, two oil coalescing filters and associated piping and instrumentation. The Biosparge System is designed for each biosparge well to operate at an airflow rate of 60 actual cubic feet per hour (acfh) and at a wellhead pressure of 18 pounds per square inch (psi).

The VCS consists of eight extraction wells that are screened from 3 to 18 feet bls, a regenerative vacuum blower, a moisture separator equipped with a centrifugal transfer pump and storage tank, and associated piping and instrumentation. The VCS was initially equipped with two 1,000-pound granular activated carbon units (installed in series), which were removed after the first 30 days of operation based upon the concentrations of the pre-treatment air stream. The VCS is designed for each vapor extraction well to operate at an airflow rate of 6 actual cubic feet per minute (acfm) and at a vacuum pressure of 23 inches of water (in H_2O).

The locations of the biosparge/vapor extraction wells and the remediation system are shown on **Figure 1-1**.



NOTES

DASHED LINES INDICATE SUBSURFACE FEATURES

LEGEND

- FENCE
- UNDERGROUND LINES
- VAULT COVER
- MONITORING WELL

TERRAINE, Inc.
ENVIRONMENTAL SERVICES

FIGURE 1-1
BIOVENTING AND BIOSPARGING SYSTEM MAP

DAY TANK 1
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FL

DWN BY: DNH	CHK BY: MJP
SCALE: 1" = 40'	APR BY: JLY
DATE: 12/30/02	FILE:

2.0 System Performance Monitoring

O&M checks of the system were performed weekly during the monitoring period. System checks were also performed weekly during the monitoring period.

During an O&M check, a preventative maintenance checklist (based upon manufacturer's recommendations) is completed, and any required maintenance activity is performed. A system check consists of an O&M check and system performance monitoring, including reading of all meters and gauges and sample collection.

2.1 Operational Efficiencies

2.1.1 Biosparging System

2nd QTR. 2003	Period	To Date
Hours of Possible Operation:	2,184	24,839
Hours of Actual Operation:	2,028	22,253
Percent hours of Operation:	92.9	89.6

2.1.2 Vapor Collection System

2nd QTR. 2003	Period	To Date
Hours of Possible Operation:	2,184	24,839
Hours of Actual Operation:	1,650	22,932
Percent hours of Operation:	75.5	92.3

2.2 Summary of Maintenance and System Downtime

Maintenance was performed during the period in accordance with manufacturer's specifications.

The Biosparge System was shut down for a total of 156 hours (6.5 days) during the monitoring period as described below:

- The system was shut down for a total of 156 hours due to a tripped alarm panel. The system was restarted upon discovery.

The Vapor Collection System was shut down for approximately 534 hours (22.25 days) during the monitoring period as described below:

- The system shut down for a total of 135 hours due to a defective solenoid. The solenoid was replaced and the system was restarted.
- The system shut down for a total of 156 hours due to a tripped alarm panel. The system was restarted.

- The system shut down for a total of 243 hours due to overloading of the compressor. The compressor was repaired and the system was restarted.

2.3 Pressure/Flow Rate Monitoring

2.3.1 Air Sparge System

During the monitoring period of April 1, 2003 through June 30, 2003, pressure was measured at each sparge wellhead on a monthly basis. The airflow rate at each header pipe was measured on the same schedule. The data from the flow and pressure measurement events are provided on **Table 2-1**.

During normal operation, the wellhead pressures for the shallow sparge wells averaged 15.9 psi, compared to the design pressure of 18 psi. The air injection rate averaged 10.5 acfh for each sparge well compared to the design injection rate of 60 acfh per sparge well.

2.3.2 Vapor Extraction System

During the monitoring period of April 1, 2003 through June 30, 2003, vacuum pressure was measured at each vapor extraction wellhead on a monthly basis. The airflow rate at each header pipe was measured on the same schedule. The data from the flow and vacuum pressure measurement events are provided on **Table 2-2**.

During normal operation, the wellhead vacuum pressures for the vapor extraction wells averaged 19.4 inches of water, compared to the design vacuum pressure of 23 inches of water. The airflow rates averaged 16.6 acfm for each extraction well, compared to the design extraction rate of 6 acfm.

2.4 Groundwater Level Measurements

Depth-to-groundwater/Light Non-Aqueous Phase Liquid (LNAPL) measurements were recorded at selected monitoring wells on a quarterly basis during the monitoring period. The top-of-casing elevation, depth-to-LNAPL measurements, depth-to-water measurements, calculated LNAPL thickness and calculated water level elevations are provided on **Table 2-3**.

Approximately 0.5 feet of LNAPL was noted in VEW-1 during the monitoring period. Total LNAPL recovered to date is 18.4 gallons.

- The system shut down for a total of 243 hours due to overloading of the compressor. The compressor was repaired and the system was restarted.

2.3 Pressure/Flow Rate Monitoring

2.3.1 Air Sparge System

During the monitoring period of April 1, 2003 through June 30, 2003, pressure was measured at each sparge wellhead on a monthly basis. The airflow rate at each header pipe was measured on the same schedule. The data from the flow and pressure measurement events are provided on **Table 2-1**.

During normal operation, the wellhead pressures for the shallow sparge wells averaged 15.9 psi, compared to the design pressure of 18 psi. The air injection rate averaged 10.5 acfh for each sparge well compared to the design injection rate of 60 acfh per sparge well.

2.3.2 Vapor Extraction System

During the monitoring period of April 1, 2003 through June 30, 2003, vacuum pressure was measured at each vapor extraction wellhead on a monthly basis. The airflow rate at each header pipe was measured on the same schedule. The data from the flow and vacuum pressure measurement events are provided on **Table 2-2**.

During normal operation, the wellhead vacuum pressures for the vapor extraction wells averaged 19.4 inches of water, compared to the design vacuum pressure of 23 inches of water. The airflow rates averaged 16.6 acfm for each extraction well, compared to the design extraction rate of 6 acfm.

2.4 Groundwater Level Measurements

Depth-to-groundwater/Light Non-Aqueous Phase Liquid (LNAPL) measurements were recorded at selected monitoring wells on a quarterly basis during the monitoring period. The top-of-casing elevation, depth-to-LNAPL measurements, depth-to-water measurements, calculated LNAPL thickness and calculated water level elevations are provided on **Table 2-3**.

Approximately 0.5 feet of LNAPL was noted in VEW-1 during the monitoring period. Total LNAPL recovered to date is 18.4 gallons.

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-01	02/29/00	60	3
	03/01/00	60	5
	03/02/00	60	6
	04/07/00	65	NM
	04/24/00	60	12
	05/30/00	60	11
	07/24/00	60	12
	08/22/00	60	12
	10/30/00	60	11
	11/27/00	60	11
	12/11/00	60	10
	01/29/01	60	11
	02/26/01	70	10
	04/16/01	55	11
	05/21/01	55	10.5
	07/03/01	55	10
	07/30/01	50	11
	08/29/01	55	10
	09/18/01	40	10
	10/29/01	60	10
	11/26/01	60	10
	12/12/01	55	10
	01/30/02	50	10
	02/25/02	60	10
	03/28/02	50	12
	04/15/02	60	12
	05/20/02	60	12
	06/26/02	60	12
	07/29/02	60	12
	08/12/02	60	12
	09/23/02	NM	NM
	10/17/02	60	10
	11/14/02	14	15
	12/19/02	60	15
	02/26/03	NM	NM
	03/13/03	12	18
	04/10/03	12	18
	06/27/03	9	14

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-02	02/29/00	60	10
	03/01/00	60	10
	03/02/00	62	10
	04/07/00	65	10
	04/24/00	60	10
	05/30/00	60	10
	07/24/00	55	10
	08/22/00	60	10
	10/30/00	60	10
	11/27/00	60	10
	12/11/00	60	10
	01/29/01	65	10
	02/26/01	75	9
	04/16/01	60	10
	05/21/01	55	10
	07/03/01	45	10
	07/30/01	60	10
	08/29/01	50	10
	09/18/01	55	10
	10/29/01	60	10
	11/26/01	60	10
	12/12/01	55	10
	01/30/02	55	10
	02/25/02	60	10
	03/28/02	60	10
	04/15/02	60	10
	05/20/02	60	10
	06/26/02	60	10
	07/29/02	60	10
	08/12/02	60	10
	09/23/02	NM	NM
	10/17/02	50	14
	11/14/02	16	13
	12/19/02	62	11
	02/26/03	NM	NM
	03/13/03	12	18
	04/10/03	12	18
	06/27/03	9	14

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-03	02/29/00	60	10
	03/01/00	60	10
	03/02/00	64	9.5
	04/07/00	65	8
	04/24/00	60	10
	05/30/00	NM	10
	07/24/00	120	10
	08/22/00	NM	10
	10/30/00	120	10
	11/27/00	120	10
	12/11/00	NM	10
	01/29/01	NM	10
	02/26/01	120	9
	04/16/01	NM	10
	05/21/01	NM	10
	07/03/01	NM	10
	07/30/01	NM	10
	08/29/01	NM	10
	09/18/01	NM	10
	10/29/01	NM	10
	11/26/01	NM	10
	12/12/01	NM	10
	01/30/02	NM	10
	02/25/02	60	10
	03/28/02	NM	10
	04/15/02	60	10
	05/20/02	60	10
	06/26/02	60	10
	07/29/02	60	10
	08/12/02	60	10
	09/23/02	NM	NM
	10/17/02	60	11
	11/14/02	13	13
	12/19/02	62	10
	02/26/03	NM	NM
	03/13/03	12	18
	04/10/03	12	18
	06/27/03	10	16

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-04	02/29/00	60	10
	03/01/00	60	10
	03/02/00	62	10
	04/07/00	65	10
	04/24/00	60	10
	05/30/00	60	10
	07/24/00	50	10
	08/22/00	60	10
	10/30/00	60	11
	11/27/00	60	10
	12/11/00	60	10
	01/29/01	60	10
	02/26/01	50	10
	04/16/01	60	10
	05/21/01	60	10
	07/03/01	60	10
	07/30/01	60	10
	08/29/01	60	10
	09/18/01	60	10
	10/29/01	55	10
	11/26/01	60	10
	12/12/01	65	10
	01/30/02	60	10
	02/25/02	60	10
	03/28/02	60	10
	04/15/02	60	10
	05/20/02	60	10
	06/26/02	55	10
	07/29/02	55	10
	08/12/02	60	12
	09/23/02	NM	NM
	10/17/02	60	12
	11/14/02	15	9
	12/19/02	61	11
	02/26/03	NM	NM
	03/13/03	12	18
	04/10/03	12	18
	06/27/03	10	16

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-05	02/29/00	60	10
	03/01/00	60	10
	03/02/00	60	10
	04/07/00	60	10
	04/24/00	60	10
	05/30/00	60	10
	07/24/00	50	10
	08/22/00	60	10
	10/30/00	60	10
	11/27/00	60	10
	12/11/00	65	10
	01/29/01	60	10
	02/26/01	70	9
	04/16/01	60	10
	05/21/01	60	10
	07/03/01	35	10
	07/30/01	40	10
	08/29/01	45	10
	09/18/01	50	10
	10/29/01	60	10
	11/26/01	60	10
	12/12/01	60	10
	01/30/02	60	10
	02/25/02	60	10
	03/28/02	60	10
	04/15/02	60	10
	05/20/02	40	10
	06/26/02	60	10
	07/29/02	50	10
	08/12/02	60	10
	09/23/02	NM	NM
	10/17/02	50	13
	11/14/02	15	10
	12/19/02	61	10
	02/26/03	NM	NM
	03/13/03	12	16
	04/10/03	11	16
	06/27/03	10	16

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-06	02/29/00	60	10
	03/01/00	60	10
	03/02/00	60	10
	04/07/00	65	10
	04/24/00	60	10
	05/30/00	60	10
	07/24/00	60	10
	08/22/00	60	10
	10/30/00	60	10
	11/27/00	60	10
	12/11/00	70	10
	01/29/01	60	10
	02/26/01	80	10
	04/16/01	60	10
	05/21/01	60	10
	07/03/01	40	10
	07/30/01	50	10
	08/29/01	60	10
	09/18/01	60	10
	10/29/01	50	10
	11/26/01	NA	NA
	12/12/01	60	10
	01/30/02	60	9
	02/25/02	60	10
	03/28/02	60	10
	04/15/02	60	10
	05/20/02	60	10
	06/26/02	50	10
	07/29/02	60	10
	08/12/02	60	10
	09/23/02	NM	NM
	10/17/02	60	11
	11/14/02	15	10
	12/19/02	61	12
	02/26/03	NM	NM
	03/13/03	12	16
	04/10/03	11	16
	06/27/03	9	14

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-07	02/29/00	0	10
	03/01/00	65	10
	03/02/00	60	10
	04/07/00	60	10
	04/24/00	55	10
	05/30/00	60	10
	07/24/00	50	10
	08/22/00	60	10
	10/30/00	60	10
	11/27/00	60	10
	12/11/00	70	10
	01/29/01	60	10
	02/26/01	80	8
	04/16/01	60	10
	05/21/01	65	10
	07/03/01	60	10
	07/30/01	60	10
	08/29/01	60	10
	09/18/01	55	10
	10/29/01	55	10
	11/26/01	60	10
	12/12/01	60	10
	01/30/02	60	10
	02/25/02	60	10
	03/28/02	55	10
	04/15/02	60	10
	05/20/02	50	10
	06/26/02	60	10
	07/29/02	55	10
	08/12/02	60	10
	09/23/02	NM	NM
	10/17/02	50	10
	11/14/02	16	11
	12/19/02	60	10
	02/26/03	NM	NM
	03/13/03	11.5	18
	04/10/03	11	16
	06/27/03	10	16

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-08	02/29/00	65	10
	03/01/00	65	10
	03/02/00	60	10
	04/07/00	60	10
	04/24/00	NM	NM
	05/30/00	50	10
	07/24/00	60	10
	08/22/00	60	10
	10/30/00	60	10
	11/27/00	60	10
	12/11/00	60	10
	01/29/01	50	10
	02/26/01	25	9
	04/16/01	70	10
	05/21/01	55	10
	07/03/01	30	10
	07/30/01	50	10
	08/29/01	60	10
	09/18/01	45	10
	10/29/01	55	10
	11/26/01	60	10
	12/12/01	60	10
	01/30/02	60	10
	02/25/02	60	10
	03/28/02	60	11
	04/15/02	60	10
	05/20/02	60	10
	06/26/02	60	11
	07/29/02	60	10
	08/12/02	NM	NM
	09/23/02	NM	NM
	10/17/02	60	10
	11/14/02	15	10
	12/19/02	60	11
	02/26/03	NM	NM
	03/13/03	12	18
	04/10/03	11	16
	06/27/03	10	16

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-09	02/29/00	60	10
	03/01/00	65	12
	03/02/00	NM	NM
	04/07/00	65	10
	04/24/00	NM	NM
	05/30/00	60	10
	07/24/00	60	10
	08/22/00	60	10
	10/30/00	60	10
	11/27/00	60	10
	12/11/00	60	10
	01/29/01	70	10
	02/26/01	70	10
	04/16/01	65	10
	05/21/01	60	10
	07/03/01	50	10
	07/30/01	60	10
	08/29/01	60	10
	09/18/01	60	10
	10/29/01	55	10
	11/26/01	60	10
	12/12/01	60	10
	01/30/02	65	10
	02/25/02	60	10
	03/28/02	60	10
	04/15/02	60	10
	05/20/02	60	10
	06/26/02	65	10
	07/29/02	60	10
	08/12/02	60	10
	09/23/02	NM	NM
	10/17/02	50	11
	11/14/02	16	10
	12/19/02	61	12
	02/26/03	NM	NM
	03/13/03	12	18
	04/10/03	11	16
	06/27/03	10	16

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-10	02/29/00	60	10
	03/01/00	60	10
	03/02/00	60	10
	04/07/00	NM	10
	04/24/00	NM	NM
	05/30/00	60	10
	07/24/00	50	10
	08/22/00	55	10
	10/30/00	60	10
	11/27/00	60	10
	12/11/00	65	10
	01/29/01	60	10
	02/26/01	80	10
	04/16/01	80	10
	05/21/01	70	10
	07/03/01	40	10
	07/30/01	50	10
	08/29/01	55	10
	09/18/01	60	10
	10/29/01	60	10
	11/26/01	60	10
	12/12/01	60	10
	01/30/02	60	10
	02/25/02	60	9
	03/28/02	60	12
	04/15/02	60	10
	05/20/02	60	12
	06/26/02	50	10
	07/29/02	60	10
	08/12/02	NM	NM
	09/23/02	NM	NM
	10/17/02	60	10
	11/14/02	16	10
	12/19/02	NM	NM
	02/26/03	NM	NM
	03/13/03	12	18
	04/10/03	11.5	18
	06/27/03	10	16

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-11	02/29/00	60	10
	03/01/00	60	10
	03/02/00	60	10
	04/07/00	60	10
	04/24/00	NM	NM
	05/30/00	60	10
	07/24/00	60	10
	08/22/00	60	10
	10/30/00	60	10
	11/27/00	60	10
	12/11/00	60	10
	01/29/01	50	10
	02/26/01	50	10
	04/16/01	55	11
	05/21/01	50	10
	07/03/01	30	10
	07/30/01	60	10
	08/29/01	50	10
	09/18/01	60	10
	10/29/01	55	10
	11/26/01	60	10
	12/12/01	60	10
	01/30/02	60	10
	02/25/02	66	10
	03/28/02	60	10
	04/15/02	60	10
	05/20/02	55	10
	06/26/02	60	11
	07/29/02	60	10
	08/12/02	60	10
	09/23/02	NM	NM
	10/17/02	60	10
	11/14/02	16	9
	12/19/02	NM	NM
	02/26/03	NM	NM
	03/13/03	11.5	16
	04/10/03	11.5	18
	06/27/03	10	14

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-12	02/29/00	NM	NM
	03/01/00	65	NM
	03/02/00	60	NM
	04/07/00	65	NM
	04/24/00	NM	NM
	05/30/00	55	10
	07/24/00	60	10
	08/22/00	60	10
	10/30/00	60	10.5
	11/27/00	60	10
	12/11/00	65	10
	01/29/01	NM	NM
	02/26/01	60	10
	04/16/01	60	10
	05/21/01	50	10
	07/03/01	20	10
	07/30/01	50	10
	08/29/01	50	10
	09/18/01	60	12
	10/29/01	60	10
	11/26/01	40	10
	12/12/01	60	10
	01/30/02	55	10
	02/25/02	60	11
	03/28/02	50	10
	04/15/02	60	12
	05/20/02	40	12
	06/26/02	55	10
	07/29/02	60	10
	08/12/02	60	11
	09/23/02	NM	NM
	10/17/02	60	10
	11/14/02	15	9
	12/19/02	61	14
	02/26/03	NM	NM
	03/13/03	NM	NM
	04/10/03	NM	NM
	06/27/03	9	14

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-13	02/29/00	65	10
	03/01/00	65	10
	03/02/00	60	10
	04/07/00	65	10
	04/24/00	60	10
	05/30/00	60	10
	07/24/00	40	10
	08/22/00	60	10
	10/30/00	65	10
	11/27/00	60	10
	12/11/00	65	10
	01/29/01	50	10
	02/26/01	20	9
	04/16/01	60	10
	05/21/01	65	10
	07/03/01	65	10
	07/30/01	60	10
	08/29/01	60	10
	09/18/01	60	10
	10/29/01	60	10
	11/26/01	60	10
	12/12/01	60	10
	01/30/02	60	10
	02/25/02	60	10
	03/28/02	60	10
	04/15/02	60	10
	05/20/02	70	10
	06/26/02	60	10
	07/29/02	60	10
	08/12/02	60	10
	09/23/02	NM	NM
	10/17/02	50	11
	11/14/02	16	11
	12/19/02	62	15
	02/26/03	NM	NM
	03/13/03	NM	NM
	04/10/03	NM	NM
	06/27/03	9	14

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-14	02/29/00	60	16
	03/01/00	60	16
	03/02/00	60	16
	04/07/00	55	16
	04/24/00	55	16
	05/30/00	NM	10
	07/24/00	60	16
	08/22/00	60	16
	10/30/00	70	18
	11/27/00	60	18
	12/11/00	60	10
	01/29/01	65	10
	02/26/01	70	12
	04/16/01	60	10
	05/21/01	60	16
	07/03/01	50	18
	07/30/01	50	14
	08/29/01	55	15
	09/18/01	60	16
	10/29/01	60	10
	11/26/01	60	15
	12/12/01	60	10
	01/30/02	60	10
	02/25/02	60	16
	03/28/02	55	12
	04/15/02	60	16
	05/20/02	60	14
	06/26/02	60	10
	07/29/02	55	16
	08/12/02	60	17
	09/23/02	NM	NM
	10/17/02	60	14
	11/14/02	NM	NM
	12/19/02	80	18
	02/26/03	NM	NM
	03/13/03	NM	NM
	04/10/03	NM	NM
	06/27/03	10	14

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-15	02/29/00	60	10
	03/01/00	60	10
	03/02/00	60	10
	04/07/00	60	10
	04/24/00	55	10
	05/30/00	60	10
	07/24/00	60	10
	08/22/00	60	10
	10/30/00	60	10
	11/27/00	60	10
	12/11/00	60	10
	01/29/01	60	10
	02/26/01	60	9
	04/16/01	50	10
	05/21/01	50	10
	07/03/01	30	10
	07/30/01	50	10
	08/29/01	50	10
	09/18/01	60	10
	10/29/01	60	10
	11/26/01	60	10
	12/12/01	60	10
	01/30/02	65	10
	02/25/02	60	10
	03/28/02	60	10
	04/15/02	60	10
	05/20/02	55	10
	06/26/02	60	10
	07/29/02	60	10
	08/12/02	60	11
	09/23/02	NM	NM
	10/17/02	50	12
	11/14/02	NM	NM
	12/19/02	80	12
	02/26/03	NM	NM
	03/13/03	11.5	16
	04/10/03	11	16
	06/27/03	NM	NM

TABLE 2-1
BIOSPARGE WELLHEAD PRESSURE/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

AS Well	Date	Wellhead Flow (acfh)	Wellhead Pressure (psi)
BP-16	02/29/00	60	10
	03/01/00	60	10
	03/02/00	60	10
	04/07/00	65	10
	04/24/00	60	10
	05/30/00	60	10
	07/24/00	60	10
	08/22/00	60	10
	10/30/00	70	10
	11/27/00	60	10
	12/11/00	60	10
	01/29/01	60	10
	02/26/01	70	10
	04/16/01	60	10
	05/21/01	60	10
	07/03/01	50	10
	07/30/01	50	10
	08/29/01	60	10
	09/18/01	60	10
	10/29/01	60	10
	11/26/01	60	10
	12/12/01	60	10
	01/30/02	60	10
	02/25/02	60	10
	03/28/02	60	10
	04/15/02	60	10
	05/20/02	55	10
	06/26/02	55	10
	07/29/02	60	10
	08/12/02	60	10
	09/23/02	NM	NM
	10/17/02	60	10
	11/14/02	NM	NM
	12/19/02	60	10
	02/26/03	NM	NM
	03/13/03	11.5	16
	04/10/03	11	16
	06/27/03	NM	NM

NM = Not Measured
psi = pounds per square inch
acfh = actual cubic feet per hour

TABLE 2-2
VAPOR COLLECTION SYSTEM WELLHEAD VACUUM/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Vapor Extraction Well	Date	Wellhead Flow (acfm)	Wellhead Vacuum (in H_2O)
VEW-1	02/29/00	4	38
	03/01/00	4	38
	03/02/00	2	39
	04/07/00	3	41
	04/24/00	2	40
	05/30/00	6	6
	07/24/00	11	2
	08/22/00	7	8
	10/30/00	4	10
	11/27/00	6	10
	12/11/00	5	8
	01/29/01	4	21
	02/26/01	5	15
	04/16/01	6	8
	05/21/01	5	36
	07/03/01	5	42
	07/30/01	6	50
	08/29/01	5	NM
	09/18/01	3	22
	10/29/01	5	45
	11/26/01	6	35
	12/12/01	5	45
	01/30/02	6	44
	02/25/02	8	20
	03/28/02	7	35
	04/15/02	8	40
	05/20/02	9	33
	06/26/02	7	35
	07/29/02	7	40
	08/12/02	8	32
	09/23/02	NM	NM
	10/17/02	6	37
	11/14/02	14	11
	12/19/02	NM	NM
	02/26/03	NM	NM
	03/13/03	16	20
	04/10/03	16	20
	06/27/03	16	18

TABLE 2-2
VAPOR COLLECTION SYSTEM WELLHEAD VACUUM/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Vapor Extraction Well	Date	Wellhead Flow (acfm)	Wellhead Vacuum (in H_2O)
VEW-2	02/29/00	6	26
	03/01/00	6	26
	03/02/00	5	23
	04/07/00	NM	40
	04/24/00	NM	28
	05/30/00	1	26
	07/24/00	2	27
	08/22/00	0	25
	10/30/00	7	26
	11/27/00	4	20
	12/11/00	6	20
	01/29/01	4	25
	02/26/01	8	25
	04/16/01	6	20
	05/21/01	3	34
	07/03/01	4	20
	07/30/01	6	25
	08/29/01	5	20
	09/18/01	4	27
	10/29/01	6	28
	11/26/01	6	32
	12/12/01	5	46
	01/30/02	7	49
	02/25/02	7	32
	03/28/02	6	20
	04/15/02	5	23
	05/20/02	6	23
	06/26/02	6	23
	07/29/02	5	36
	08/12/02	3	23
	09/23/02	NM	NM
	10/17/02	0	22
	11/14/02	16	23
	12/19/02	6	25
	02/26/03	NM	NM
	03/13/03	18	22
	04/10/03	16	20
	06/27/03	16	18

TABLE 2-2
VAPOR COLLECTION SYSTEM WELLHEAD VACUUM/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Vapor Extraction Well	Date	Wellhead Flow (acfm)	Wellhead Vacuum (in H_2O)
VEW-3	02/29/00	8	28
	03/01/00	8	28
	03/02/00	6	19
	04/07/00	6	18
	04/24/00	6	16
	05/30/00	6	13
	07/24/00	2	30
	08/22/00	6	1
	10/30/00	5	10.5
	11/27/00	6	15
	12/11/00	6.5	14
	01/29/01	6	15
	02/26/01	6	15
	04/16/01	5	14
	05/21/01	6	10
	07/03/01	7	8
	07/30/01	6	10
	08/29/01	6	10
	09/18/01	6	10
	10/29/01	6	10
	11/26/01	NA	NA
	12/12/01	8	60
	01/30/02	6	42
	02/25/02	6	27
	03/28/02	8	28
	04/15/02	7	42
	05/20/02	9	25
	06/26/02	8	29
	07/29/02	7	31
	08/12/02	13	23
	09/23/02	NM	NM
	10/17/02	14	11
	11/14/02	16	10
	12/19/02	6	25
	02/26/03	NM	NM
	03/13/03	18	22
	04/10/03	16	20
	06/27/03	16	18

TABLE 2-2
VAPOR COLLECTION SYSTEM WELLHEAD VACUUM/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Vapor Extraction Well	Date	Wellhead Flow (acfm)	Wellhead Vacuum (in H_2O)
VEW-4	02/29/00	8	38
	03/01/00	8	38
	03/02/00	5	37
	04/07/00	7	14
	04/24/00	NM	NM
	05/30/00	6	31
	07/24/00	6	15
	08/22/00	6	8
	10/30/00	7	8
	11/27/00	7	8
	12/11/00	7	7
	01/29/01	6	5
	02/26/01	6	12
	04/16/01	8	5
	05/21/01	10	15
	07/03/01	8	6
	07/30/01	6	10
	08/29/01	8	5
	09/18/01	5	4
	10/29/01	6	12
	11/26/01	6	31
	12/12/01	6	54
	01/30/02	6	40
	02/25/02	6	30
	03/28/02	6	31
	04/15/02	6	32
	05/20/02	6	27
	06/26/02	6	31
	07/29/02	6	36
	08/12/02	NM	NM
	09/23/02	NM	NM
	10/17/02	NM	NM
	11/14/02	15	20
	12/19/02	5	20
	02/26/03	NM	NM
	03/13/03	18	22
	04/10/03	14	18
	06/27/03	16	20

TABLE 2-2
VAPOR COLLECTION SYSTEM WELLHEAD VACUUM/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Vapor Extraction Well	Date	Wellhead Flow (acfm)	Wellhead Vacuum (in H_2O)
VEW-5	02/29/00	5	38
	03/01/00	5	38
	03/02/00	4	37
	04/07/00	6	40
	04/24/00	5	24
	05/30/00	6	5
	07/24/00	6	0
	08/22/00	6	6
	10/30/00	6	32
	11/27/00	6	15
	12/11/00	6	18
	01/29/01	7	10
	02/26/01	7	18
	04/16/01	6	18
	05/21/01	6	24
	07/03/01	6	NM
	07/30/01	6	32
	08/29/01	6	15
	09/18/01	4	29
	10/29/01	6	30
	11/26/01	6	25
	12/12/01	6	51
	01/30/02	10	36
	02/25/02	6	33
	03/28/02	6	38
	04/15/02	6	39
	05/20/02	6	33
	06/26/02	6	34
	07/29/02	5	40
	08/12/02	5	35
	09/23/02	NM	NM
	10/17/02	0	3
	11/14/02	16	21
	12/19/02	8	25
	02/26/03	NM	NM
	03/13/03	18	22
	04/10/03	16	20
	06/27/03	18	20

TABLE 2-2
VAPOR COLLECTION SYSTEM WELLHEAD VACUUM/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Vapor Extraction Well	Date	Wellhead Flow (acfm)	Wellhead Vacuum (in H_2O)
VEW-6	02/29/00	4	38
	03/01/00	4	38
	03/02/00	4	39
	04/07/00	6	43
	04/24/00	6	40
	05/30/00	6	41
	07/24/00	6	40
	08/22/00	6	10
	10/30/00	6	39
	11/27/00	7	13
	12/11/00	8	20
	01/29/01	7	15
	02/26/01	10	56
	04/16/01	6	20
	05/21/01	6	17
	07/03/01	5	NM
	07/30/01	6	45
	08/29/01	6	18
	09/18/01	4	NM
	10/29/01	6	35
	11/26/01	6	15
	12/12/01	6	55
	01/30/02	6	40
	02/25/02	6	33
	03/28/02	6	39
	04/15/02	6	39
	05/20/02	6	35
	06/26/02	9	35
	07/29/02	6	34
	08/12/02	9	32
	09/23/02	NM	NM
	10/17/02	9	32
	11/14/02	16	21
	12/19/02	10	30
	02/26/03	NM	NM
	03/13/03	16	20
	04/10/03	18	20
	06/27/03	18	20

TABLE 2-2
VAPOR COLLECTION SYSTEM WELLHEAD VACUUM/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Vapor Extraction Well	Date	Wellhead Flow (acfm)	Wellhead Vacuum (in H_2O)
VEW-7	02/29/00	11	22
	03/01/00	11	24
	03/02/00	6	18
	04/07/00	6	40
	04/24/00	6	15
	05/30/00	5	32
	07/24/00	6	5
	08/22/00	6	5
	10/30/00	7	5
	11/27/00	7	7
	12/11/00	7	5
	01/29/01	6	6
	02/26/01	10	5
	04/16/01	7	5
	05/21/01	6	16
	07/03/01	10	7
	07/30/01	6	5
	08/29/01	8	6
	09/18/01	5	NM
	10/29/01	5	6
	11/26/01	8	6
	12/12/01	8	58
	01/30/02	6	26
	02/25/02	6	20
	03/28/02	7	23
	04/15/02	7	30
	05/20/02	9	19
	06/26/02	9	23
	07/29/02	7	42
	08/12/02	7	32
	09/23/02	NM	NM
	10/17/02	6	2
	11/14/02	16	20
	12/19/02	5	0
	02/26/03	NM	NM
	03/13/03	NM	NM
	04/10/03	NM	NM
	06/27/03	18	20

TABLE 2-2
VAPOR COLLECTION SYSTEM WELLHEAD VACUUM/FLOW MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Vapor Extraction Well	Date	Wellhead Flow (acfm)	Wellhead Vacuum (in H_2O)
VEW-8	02/29/00	8	24
	03/01/00	8	24
	03/02/00	6	22
	04/07/00	7	20
	04/24/00	6	20
	05/30/00	6	17
	07/24/00	6	14
	08/22/00	6	14
	10/30/00	6	14
	11/27/00	6	15
	12/11/00	6	14
	01/29/01	6	15
	02/26/01	7	15
	04/16/01	6	15
	05/21/01	6	14
	07/03/01	8	25
	07/30/01	6	25
	08/29/01	6	20
	09/18/01	4	6
	10/29/01	5	25
	11/26/01	6	15
	12/12/01	6	53
	01/30/02	6	36
	02/25/02	6	27
	03/28/02	6	31
	04/15/02	6	37
	05/20/02	6	27
	06/26/02	6	27
	07/29/02	6	32
	08/12/02	6	31
	09/23/02	NM	NM
	10/17/02	4	28
	11/14/02	16	21
	12/19/02	6	25
	02/26/03	NM	NM
	03/13/03	16	20
	04/10/03	18	20
	06/27/03	NM	NM

NM = Not Measured
in H_2O = inches of water
acfm = actual cubic feet per minute

TABLE 2-3
DEPTH TO GROUNDWATER/LNAPL MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Date	Top-of-Casing Elevation (Feet)	Depth to LNAPL (Feet)	Depth to Water (Feet)	LNAPL Thickness (Feet)	Water-Level Elevation (Feet)
CEF-293-01	06/13/00	NA	none present	8.79	0.00	NA
	09/14/00		none present	5.55	0.00	NA
	12/21/00		none present	7.72	0.00	NA
	03/15/01		none present	8.03	0.00	NA
	06/25/01		none present	7.37	0.00	NA
	09/19/01		none present	4.17	0.00	NA
	10/03/01		none present	NM	0.00	NA
	12/19/01		none present	7.43	0.00	NA
	03/20/02		none present	7.00	0.00	NA
	06/04/02		none present	7.99	0.00	NA
	09/23/02		none present	5.69	0.00	NA
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	NM	0.00	NA
	06/06/03		NM	NM	NM	NM
CEF-293-02	06/13/00	NA	none present	9.70	0.00	NA
	09/14/00		none present	6.83	0.00	NA
	12/21/00		none present	8.81	0.00	NA
	03/15/01		none present	9.22	0.00	NA
	06/25/01		none present	8.36	0.00	NA
	09/19/01		none present	5.87	0.00	NA
	10/03/01		none present	NM	0.00	NA
	12/19/01		none present	8.53	0.00	NA
	03/20/02		none present	8.06	0.00	NA
	06/04/02		none present	9.00	0.00	NA
	09/23/02		none present	6.50	0.00	NA
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	NM	0.00	NA
	06/06/03		NM	NM	NM	NM
CEF-293-04	06/13/00	77.22	none present	9.45	0.00	67.77
	09/14/00		none present	5.44	0.00	71.78
	12/21/00		none present	8.33	0.00	68.89
	03/15/01		none present	8.62	0.00	68.60
	06/25/01		none present	7.75	0.00	69.47
	09/19/01		none present	1.85	0.00	75.37
	10/03/01		none present	6.33	0.00	70.89
	12/19/01		none present	7.74	0.00	69.48
	03/20/02		none present	7.39	0.00	69.83
	06/04/02		none present	8.61	0.00	68.61
	09/23/02		none present	2.85	0.00	74.37
	12/11/02		none present	3.12	0.00	74.10
	03/11/03		none present	0.92	0.00	76.30
	06/06/03		NM	NM	NM	NM

TABLE 2-3
DEPTH TO GROUNDWATER/LNAPL MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Date	Top-of-Casing Elevation (Feet)	Depth to LNAPL (Feet)	Depth to Water (Feet)	LNAPL Thickness (Feet)	Water-Level Elevation (Feet)
CEF-293-05	06/13/00	NA	none present	9.01	0.00	NA
	09/14/00		none present	3.18	0.00	NA
	12/21/00		none present	7.95	0.00	NA
	03/15/01		none present	NM	0.00	NA
	06/25/01		none present	NM	0.00	NA
	09/19/01		none present	1.95	0.00	NA
	10/03/01		none present	NM	0.00	NA
	12/19/01		none present	7.59	0.00	NA
	03/20/02		none present	7.26	0.00	NA
	06/04/02		none present	8.22	0.00	NA
	09/23/02		none present	5.81	0.00	NA
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	NM	0.00	NA
	06/06/03		NM	NM	NM	NM
CEF-293-06	06/13/00	NA	none present	9.77	0.00	NA
	09/14/00		none present	6.89	0.00	NA
	12/21/00		none present	8.75	0.00	NA
	03/15/01		none present	9.00	0.00	NA
	06/25/01		none present	8.39	0.00	NA
	09/19/01		none present	5.85	0.00	NA
	10/03/01		none present	NM	0.00	NA
	12/19/01		none present	8.44	0.00	NA
	03/20/02		none present	8.15	0.00	NA
	06/04/02		none present	9.03	0.00	NA
	09/23/02		none present	6.99	0.00	NA
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	NM	0.00	NA
	06/06/03		NM	NM	NM	NM
CEF-293-07	06/13/00	NA	none present	9.95	0.00	NA
	09/14/00		none present	6.85	0.00	NA
	12/21/00		none present	8.92	0.00	NA
	03/15/01		none present	9.29	0.00	NA
	06/25/01		none present	8.60	0.00	NA
	09/19/01		none present	5.44	0.00	NA
	10/03/01		none present	NM	0.00	NA
	12/19/01		none present	8.55	0.00	NA
	03/20/02		none present	8.21	0.00	NA
	06/04/02		none present	9.10	0.00	NA
	09/23/02		none present	7.21	0.00	NA
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	NM	0.00	NA
	06/06/03		NM	NM	NM	NM

TABLE 2-3
DEPTH TO GROUNDWATER/LNAPL MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Date	Top-of-Casing Elevation (Feet)	Depth to LNAPL (Feet)	Depth to Water (Feet)	LNAPL Thickness (Feet)	Water-Level Elevation (Feet)
CEF-293-09	06/13/00	77.36	none present	9.93	0.00	67.43
	09/14/00		none present	7.01	0.00	70.35
	12/21/00		none present	8.96	0.00	68.40
	03/15/01		none present	9.29	0.00	68.07
	06/25/01		none present	8.37	0.00	68.99
	09/19/01		none present	5.81	0.00	71.55
	10/03/01		none present	7.29	0.00	70.07
	12/19/01		none present	8.70	0.00	68.66
	03/20/02		none present	8.13	0.00	69.23
	06/04/02		none present	9.21	0.00	68.15
	09/23/02		none present	7.20	0.00	70.16
	12/11/02		none present	8.19	0.00	69.17
	03/11/03		none present	6.09	0.00	71.27
	06/06/03		none present	7.85	0.00	69.51
CEF-293-10	06/13/00	NA	none present	9.46	0.00	NA
	09/14/00		none present	6.75	0.00	NA
	12/21/00		none present	8.52	0.00	NA
	03/15/01		none present	8.80	0.00	NA
	06/25/01		none present	8.21	0.00	NA
	09/19/01		none present	5.69	0.00	NA
	10/03/01		none present	NM	0.00	NA
	12/19/01		none present	8.28	0.00	NA
	03/20/02		none present	8.01	0.00	NA
	06/04/02		none present	8.77	0.00	NA
	09/23/02		none present	6.10	0.00	NA
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	NM	0.00	NA
	06/07/03		NM	NM	NM	NM
CEF-293-11	06/13/00	NA	none present	9.62	0.00	NA
	09/14/00		none present	6.91	0.00	NA
	12/21/00		none present	8.70	0.00	NA
	03/15/01		none present	9.12	0.00	NA
	06/25/01		none present	8.46	0.00	NA
	09/19/01		none present	5.85	0.00	NA
	10/03/01		none present	NM	0.00	NA
	12/19/01		none present	8.48	0.00	NA
	03/20/02		none present	8.31	0.00	NA
	06/04/02		none present	8.97	0.00	NA
	09/23/02		none present	7.15	0.00	NA
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	NM	0.00	NA
	06/07/03		NM	NM	NM	NM

TABLE 2-3
DEPTH TO GROUNDWATER/LNAPL MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Date	Top-of-Casing Elevation (Feet)	Depth to LNAPL (Feet)	Depth to Water (Feet)	LNAPL Thickness (Feet)	Water-Level Elevation (Feet)
CEF-293-13	06/13/00	75.97	none present	9.05	0.00	66.92
	09/14/00		none present	6.31	0.00	69.66
	12/21/00		none present	8.11	0.00	67.86
	03/15/01		none present	8.63	0.00	67.34
	06/25/01		none present	8.06	0.00	67.91
	09/19/01		none present	7.40	0.00	68.57
	10/03/01		none present	6.67	0.00	69.30
	12/19/01		none present	7.89	0.00	68.08
	03/20/02		none present	7.69	0.00	68.28
	06/04/02		none present	8.32	0.00	67.65
	09/23/02		none present	6.56	0.00	69.41
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	5.47	0.00	70.50
	06/07/03		NM	NM	NM	NM
CEF-293-14	06/13/00	NA	none present	9.34	0.00	NA
	09/14/00		none present	6.45	0.00	NA
	12/21/00		none present	8.40	0.00	NA
	03/15/01		none present	9.71	0.00	NA
	06/25/01		none present	8.10	0.00	NA
	09/19/01		none present	5.19	0.00	NA
	10/03/01		none present	NM	0.00	NA
	12/19/01		none present	8.14	0.00	NA
	03/20/02		none present	7.73	0.00	NA
	06/04/02		none present	8.56	0.00	NA
	09/23/02		none present	NM	0.00	NA
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	NM	0.00	NA
	06/07/03		NM	NM	NM	NM
CEF-293-19	06/13/00	NA	none present	8.95	0.00	NA
	09/14/00		none present	6.99	0.00	NA
	12/21/00		none present	8.75	0.00	NA
	03/15/01		none present	9.11	0.00	NA
	06/25/01		none present	8.55	0.00	NA
	09/19/01		none present	5.93	0.00	NA
	10/03/01		none present	NM	0.00	NA
	12/19/01		none present	8.54	0.00	NA
	03/20/02		none present	8.26	0.00	NA
	06/04/02		none present	NM	0.00	NA
	09/23/02		none present	7.10	0.00	NA
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	NM	0.00	NA
	06/07/03		NM	NM	NM	NM

TABLE 2-3
DEPTH TO GROUNDWATER/LNAPL MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Date	Top-of-Casing Elevation (Feet)	Depth to LNAPL (Feet)	Depth to Water (Feet)	LNAPL Thickness (Feet)	Water-Level Elevation (Feet)
CEF-293-20	06/13/00	76.14	none present	9.40	0.00	66.74
	09/14/00		none present	6.85	0.00	69.29
	12/21/00		none present	8.53	0.00	67.61
	03/15/01		none present	8.81	0.00	67.33
	06/25/01		none present	8.25	0.00	67.89
	09/19/01		none present	5.70	0.00	70.44
	10/03/01		none present	6.98	0.00	69.16
	12/19/01		none present	8.35	0.00	67.79
	03/20/02		none present	7.97	0.00	68.17
	06/04/02		none present	8.76	0.00	67.38
	09/23/02		none present	6.80	0.00	69.34
	12/11/02		none present	7.82	0.00	68.32
	03/11/03		none present	5.92	0.00	70.22
	06/07/03		NM	NM	NM	NM
CEF-293-21	06/13/00	NA	none present	9.51	0.00	NA
	09/14/00		none present	6.98	0.00	NA
	12/21/00		none present	8.62	0.00	NA
	03/15/01		none present	8.94	0.00	NA
	06/25/01		none present	8.37	0.00	NA
	09/19/01		none present	5.81	0.00	NA
	10/03/01		none present	NM	0.00	NA
	12/19/01		none present	8.46	0.00	NA
	03/20/02		none present	8.07	0.00	NA
	06/04/02		none present	8.85	0.00	NA
	09/23/02		none present	6.94	0.00	NA
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	NM	0.00	NA
	06/07/03		NM	NM	NM	NM
CEF-293-22	06/13/00	75.95	none present	8.88	0.00	67.07
	09/14/00		none present	6.20	0.00	69.75
	12/21/00		none present	7.89	0.00	68.06
	03/15/01		none present	8.34	0.00	67.61
	06/25/01		none present	7.70	0.00	68.25
	09/19/01		none present	5.10	0.00	70.85
	10/03/01		none present	6.51	0.00	69.44
	12/19/01		none present	7.79	0.00	68.16
	03/20/02		none present	7.62	0.00	68.33
	06/04/02		none present	8.27	0.00	67.68
	09/23/02		none present	6.48	0.00	69.47
	12/11/02		none present	NM	0.00	NA
	03/11/03		none present	8.33	0.00	67.62
	06/07/03		none present	7.00	0.00	68.95

TABLE 2-3
DEPTH TO GROUNDWATER/LNAPL MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Date	Top-of-Casing Elevation (Feet)	Depth to LNAPL (Feet)	Depth to Water (Feet)	LNAPL Thickness (Feet)	Water-Level Elevation (Feet)
VEW-01	06/13/00	76.32	8.60	10.89	2.29	67.03
	09/14/00		4.85	7.70	2.85	70.62
	10/12/00		6.26	7.39	1.13	69.72
	10/18/00		6.39	7.29	0.90	69.66
	10/24/00		6.55	7.56	1.01	69.47
	10/30/00		6.80	7.70	0.90	69.25
	11/07/00		6.95	7.20	0.25	69.30
	11/13/00		7.05	8.13	1.08	68.95
	11/20/00		7.10	8.30	1.20	68.86
	11/27/00		7.05	9.05	2.00	68.67
	12/06/01		7.25	10.15	2.90	68.20
	12/11/00		7.35	10.10	2.75	68.15
	12/18/00		7.32	10.80	3.48	67.96
	12/21/00		7.80	9.61	1.81	67.98
	01/03/01		7.45	11.85	4.40	67.55
	01/17/01		8.16	9.36	1.20	67.80
	01/29/01		7.68	11.11	3.43	67.61
	02/13/01		7.57	11.48	3.91	67.58
	02/19/01		7.61	11.45	3.84	67.56
	02/26/01		7.70	11.68	3.98	67.43
	03/06/01		7.55	11.10	3.55	67.71
	03/12/01		7.59	11.31	3.72	67.61
	03/15/01		8.34	10.50	2.16	67.33
	04/09/01		7.29	8.08	0.79	68.79
	04/16/01		7.31	8.29	0.98	68.72
	05/03/01		7.20	11.00	3.80	67.98
	05/08/01		7.35	11.10	3.75	67.85
	05/14/01		7.52	11.58	4.06	67.58
	05/21/01		7.59	11.50	3.91	67.56
	06/25/01		7.70	10.55	2.85	67.77
	07/03/01		6.55	10.67	4.12	68.53
	08/06/01		5.60	8.49	2.89	69.85
	09/19/01		5.21	6.15	0.94	70.83
	10/03/01		NM	NM	NM	NM
	12/07/01		4.90	5.70	0.80	71.18
	12/12/01		7.80	10.70	2.90	67.65
	12/19/01		7.48	9.08	1.60	68.36
	03/20/02		7.36	9.21	1.85	68.41
	06/04/02		8.15	9.20	1.05	67.86
	09/23/02		6.21	6.81	0.60	69.93
	12/11/02		7.10	8.05	0.95	68.94
	03/11/03		5.08	5.80	0.72	71.02
	06/07/03		6.9	7.40	0.50	68.92

TABLE 2-3
DEPTH TO GROUNDWATER/LNAPL MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Date	Top-of-Casing Elevation (Feet)	Depth to LNAPL (Feet)	Depth to Water (Feet)	LNAPL Thickness (Feet)	Water-Level Elevation (Feet)
VEW-02	06/13/00	75.86	7.50	13.02	5.52	62.84
	09/14/00		5.75	5.76	0.01	70.10
	12/21/00		7.70	7.73	0.03	68.13
	03/15/01		8.34	8.36	0.02	67.50
	06/25/01		7.92	7.96	0.04	67.90
	09/19/01		none present	4.98	0.00	70.88
	10/03/01		none present	6.20	0.00	69.66
	12/19/01		none present	7.40	0.00	68.46
	03/20/02		none present	7.42	0.00	68.44
	06/04/02		none present	7.89	0.00	67.97
	09/23/02		none present	6.01	0.00	69.85
	12/11/02		none present	6.69	0.00	69.17
	03/11/03		none present	4.71	0.00	71.15
	06/07/03		none present	6.50	0.00	69.36
VEW-03	06/13/00	75.28	none present	8.05	0.00	67.23
	09/14/00		none present	5.25	0.00	70.03
	12/21/00		none present	7.21	0.00	68.07
	03/15/01		none present	7.75	0.00	67.53
	06/25/01		none present	7.06	0.00	68.22
	09/19/01		none present	4.15	0.00	71.13
	10/03/01		none present	5.55	0.00	69.73
	12/19/01		none present	6.93	0.00	68.35
	03/20/02		none present	6.85	0.00	68.43
	06/04/02		none present	7.38	0.00	67.90
	09/23/02		none present	5.60	0.00	69.68
	12/11/02		none present	6.23	0.00	69.05
	03/11/03		none present	4.07	0.00	71.21
	06/06/03		none present	6.10	0.00	69.18
VEW-04	06/13/00	75.54	none present	8.38	0.00	67.16
	09/14/00		none present	5.68	0.00	69.86
	12/21/00		none present	7.60	0.00	67.94
	03/15/01		none present	8.07	0.00	67.47
	06/25/01		none present	7.70	0.00	67.84
	09/19/01		none present	4.67	0.00	70.87
	10/03/01		none present	6.04	0.00	69.50
	12/19/01		none present	7.31	0.00	68.23
	03/20/02		none present	7.23	0.00	68.31
	06/04/02		none present	7.78	0.00	67.76
	09/23/02		none present	6.05	0.00	69.49
	12/11/02		none present	6.78	0.00	68.76
	03/11/03		none present	4.66	0.00	70.88
	06/07/03		none present	6.50	0.00	69.04

TABLE 2-3
DEPTH TO GROUNDWATER/LNAPL MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Date	Top-of-Casing Elevation (Feet)	Depth to LNAPL (Feet)	Depth to Water (Feet)	LNAPL Thickness (Feet)	Water-Level Elevation (Feet)
VEW-05	06/13/00	74.63	none present	7.53	0.00	67.10
	09/14/00		none present	4.85	0.00	69.78
	12/21/00		none present	6.75	0.00	67.88
	03/15/01		none present	7.18	0.00	67.45
	06/25/01		none present	6.56	0.00	68.07
	09/19/01		none present	3.83	0.00	70.80
	10/03/01		none present	5.16	0.00	69.47
	12/19/01		none present	7.42	0.00	67.21
	03/20/02		none present	6.38	0.00	68.25
	06/04/02		none present	6.91	0.00	67.72
	09/23/02		none present	5.14	0.00	69.49
	12/11/02		none present	5.98	0.00	68.65
	03/11/03		none present	3.80	0.00	70.83
	06/06/03		none present	6.75	0.00	67.88
VEW-06	06/13/00	74.31	none present	7.26	0.00	67.05
	09/14/00		none present	4.60	0.00	69.71
	12/21/00		none present	6.40	0.00	67.91
	03/15/01		none present	6.94	0.00	67.37
	06/25/01		none present	6.45	0.00	67.86
	09/19/01		none present	3.72	0.00	70.59
	10/03/01		none present	5.03	0.00	69.28
	12/19/01		none present	6.16	0.00	68.15
	03/20/02		none present	6.13	0.00	68.18
	06/04/02		none present	6.63	0.00	67.68
	09/23/02		none present	4.88	0.00	69.43
	12/11/02		none present	5.75	0.00	68.56
	03/11/03		none present	3.73	0.00	70.58
	06/07/03		NM	NM	NM	NM
VEW-07	06/13/00	76.44	none present	9.06	0.00	67.38
	09/14/00		none present	6.15	0.00	70.29
	12/21/00		none present	8.15	0.00	68.29
	03/15/01		none present	8.65	0.00	67.79
	06/25/01		none present	8.36	0.00	68.08
	09/19/01		none present	5.15	0.00	71.29
	10/03/01		none present	6.50	0.00	69.94
	12/19/01		none present	7.80	0.00	68.64
	03/20/02		none present	7.71	0.00	68.73
	06/04/02		none present	8.36	0.00	68.08
	09/23/02		none present	6.29	0.00	70.15
	12/11/02		none present	7.16	0.00	69.28
	03/11/03		none present	5.01	0.00	71.43
	06/07/03		none present	6.97	0.00	69.47

TABLE 2-3
DEPTH TO GROUNDWATER/LNAPL MEASUREMENTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Date	Top-of-Casing Elevation (Feet)	Depth to LNAPL (Feet)	Depth to Water (Feet)	LNAPL Thickness (Feet)	Water-Level Elevation (Feet)
VEW-08	06/13/00	76.43	none present	9.06	0.00	67.37
	09/14/00		none present	6.16	0.00	70.27
	12/21/00		none present	8.11	0.00	68.32
	03/15/01		none present	8.57	0.00	67.86
	06/25/01		none present	8.33	0.00	68.10
	09/19/01		none present	5.35	0.00	71.08
	10/03/01		none present	6.41	0.00	70.02
	12/19/01		none present	7.76	0.00	68.67
	03/20/02		none present	7.61	0.00	68.82
	06/04/02		none present	8.30	0.00	68.13
	09/23/02		none present	6.37	0.00	70.06
	12/11/02		none present	7.23	0.00	69.20
	03/11/03		none present	5.13	0.00	71.30
	06/07/03		NM	NM	NM	NM

LNAPL = Light Non-Aqueous Phase Liquid
NA = Not Available
NM = Not Measured
Elevation is referenced to National Geodetic Vertical Datum 1929 (NGVD 1929)

Depth to LNAPL is measured from top of casing

Depth to water is measured from top of casing

3.0 Summary of Sampling and Laboratory Analytical Results

3.1 Vapor Monitoring

The VCS discharge stack was sampled monthly during the monitoring period for analyses by United States Environmental Protection Agency (USEPA) Method 18, TO-15. Copies of the analytical laboratory reports from the air sampling events are provided in Appendix A, and analytical results are summarized on **Tables 3-1** and **3-2**. The pounds per day loading rate summary is provided on **Table 3-3**.

Based upon an average pounds per day, volatile organic compound (VOC) removal rate of 0.0007 pounds per day and an on-stream time of 89.7 days, a total of 0.059 pound of VOCs were removed from the subsurface during the monitoring period via volatilization and 23.03 pounds have been removed to date. It should be noted that this calculation does not take into account the reductions that were a result of biodegradation of the contaminants in the groundwater or the mass removed via recovery of LNAPL.

3.2 Groundwater Monitoring

As a result of substantial reduction of contaminant concentrations in monitoring wells, the number of required monitoring locations was reduced on May 6, 2003 from twelve to seven by recommendation of the Department of Environmental Protection. Seven monitoring locations (two monitoring wells and five vapor extraction wells) at the site were sampled on June 6 and 7, 2003 for volatile organic aromatics (VOAs) and semi-volatile organic aromatics (SVOAs) by USEPA Methods 8260B and 8270C-SIM, respectively. All sampling points exhibited decreases in contaminant concentrations compared to the baseline groundwater sampling event performed on January 25, 2000. The contaminant concentrations for all monitoring locations are below groundwater cleanup target levels (GCTLs) per Chapter 62-777 F.A.C. for all constituents with the exception of monitoring well CEF-293-09 which exhibited benzene and total xylene concentrations greater than the GCTL. Vapor extraction well VEW-1 was not sampled during the second quarter due to the continued presence of LNAPL (discussed in Section 2.4).

The locations of the monitoring/vapor extraction wells are shown on **Figure 1-1**. Copies of the analytical laboratory reports from the groundwater sampling events are provided in Appendix B, and analytical results are summarized on **Table 3-4**.

Field parameters, including pH, temperature and specific conductivity, and dissolved oxygen (DO) were also measured during the sampling event. Temperature, specific conductivity, and DO were measured with a Horibia® water quality meter & flow-through cell. pH was measured with an Oyster® pH meter. The results are summarized on **Table 3-5**.

TABLE 3-1

Day Tank 1: Pre-Treatment Vapor Analytical Results

NAS Cecil Field Jacksonville, Florida

Compound	2/28/2000	3/7/2000	3/16/2000	3/23/2000	5/30/2000	6/19/2000	7/24/2000	8/15/2000	09/18/00	10/18/00	11/13/00	12/11/2000	1/17/2001	2/13/2001	3/12/2001	4/16/2001	5/3/2001	5/29/2001	6/15/2001	7/17/2001	8/14/2001
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	2130	3580	824	5060	4690	8640	7750	2840	1610	ND	1120	878	550	446	932	317	457	460	170	280	140
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	62.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	898	1780	422	2870	3380	5940	6330	2650	1600	ND	1520	1010	957	662	1320	NA	898	860	380	530	60
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND
4-Ethyltoluene	605	1080	224	1470	1510	3030	2580	782	336	ND	NS	654	152	144	165	70.3	79.6	430	170	240	160
Alpha-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	112	1350	210	979	83.3	138	161	33.5	9.6	12	30	ND	12	27	19	12	12	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	19	ND	72.9	21	ND	ND	ND	1.2	ND	ND	ND	ND	ND	3.2	0.77	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND	3.1	3.6	2.4	ND	ND	ND	ND
Dichlorotetrafluroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND
Ethylbenzene	1540	3060	585	4510	1740	3320	3360	811	260	107	392	165	134	213	198	91.9	98.8	190	90	120	ND
Freon 113	229	ND	2350	305	263	389	1860	165	47	ND	ND	68	ND	93.6	27	20	22	NA	NA	NA	NA
Freon 114	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	840	380	410	ND
m,p-Xylene	2840	6460	1200	9410	4640	7540	7460	1820	141	275	811	397	451	681	793	405	376	650	290	390	130
m-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
Methyl Tert Butyl Ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0	ND	ND	ND	ND
Methylene Chloride	ND	ND	87.3	114	163	46.7	105	ND	11	ND	ND	ND	ND	9.3	2.3	0.41	2.4	ND	ND	ND	ND
o-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
o-Xylene	397	1820	375	2940	2270	3620	3760	1340	91.9	168	759	572	432	370	581	200	344	330	140	170	60
p-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	90.7	1410	1060	2770	452	500	715	112	23	17	54.6	13	39.1	79.4	63.6	32	33	70	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	1.3	0.89	ND	ND	ND	ND
Trichlorotrifluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1.4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Butadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylisobutyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isoprpyl Alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	3230	8280	1570	12300	6940	11200	11200	3170	233	443	1570	971	880	1050	1370	607	720	980	430	ND	ND
Total Volatile Organics (ug/m^3)	8842	20540	7399	30428	19264.2	33247.5	34081	10553.5	4129.5	585.3	4686.6	3757	2727.1	2725.3	4104	1157.91	2327.86	3830	1620	2140	550

1. Total Volatile Organics = Sum of all detected Volatile Organic Compounds
2. When computing Total Volatile Organics, not detected compounds are assumed to be zero
3. From Feburary 2000 through May 2002, all samples were analyzed by EPA Method 18, TO-14. October 2002 samples were anaylzed by T0-15
4. All concentrations are in micrograms per cubic meter. (ug/m3)
5. ND= Not Detected (please see Appendix D for detection limits)
6. NA= Not Analyzed for listed parameter
7. No data available for period of April 2002 through September 2002
8. Sampling for June was conducted late, therefore data from the July 3, 2003 sampling event is included.

TABLE 3-1

Day Tank 1: Pre-Treatment Vapor Analytical Results

NAS Cecil Field Jacksonville, Florida

Compound	9/27/2001	10/15/2001	11/20/2001	12/12/2001	1/30/2002	2/19/2002	3/11/2002	04/08/02	05/06/02	06/10/02	07/15/02	08/21/02	09/09/02	10/21/2002	11/22/2002	12/16/2002	1/21/2003	2/26/2003	3/20/2003	4/17/2003	5/21/2003	7/3/2003
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.85	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	40	60	ND	50	420	ND	ND	ND	ND	60	ND	ND	ND	ND	ND	ND	ND	15.0	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	100	210	300	100	80	440	70	ND	ND	ND	270	180	ND	ND	ND	11	ND	ND	44.0	ND	ND
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND
4-Ethyltoluene	ND	ND	50	70	ND	50	340	ND	ND	ND	ND	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-Chlorotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.22	2.85	ND	14.9
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.8
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.44	ND	6.39	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	1.88	ND	5.21
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.50	3.00	ND	ND	3.00	ND	ND
Dichlorotetrafluroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.21	ND	ND
Freon 113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Freon 114	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexane	ND	80	140	150	ND	ND	120	60	ND	ND	ND	ND	99	ND	81	ND	9.68	ND	4.66	ND	ND	ND
m,p-Xylene	ND	120	90	80	ND	ND	250	ND	ND	ND	ND	90	ND	ND	ND	5.74	4.86	ND	125	5.74	ND	ND
m-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Tert Butyl Ether	ND	ND	ND	ND	ND	ND	110	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
o-Xylene	ND	ND	50	60	ND	ND	120	ND	ND	ND	ND	80	ND	ND	ND	16.80	15	ND	ND	10.6	110	ND
p-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Styrene	ND	230	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.2	ND	ND	ND	ND	2.30	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	49.3	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	105.0	322.0	156	101	ND	72.4	ND	ND	10.2
1.4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Propylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	87.5	2.1	ND	1.58	ND	ND	12.1	ND	66.5
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Butadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylisobutyl ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	156	39.20	17.10	ND	44.6	ND	ND	ND
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	180	ND	1380	ND
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isoprpyl Alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	19.8	ND	23.2	ND	17.9	ND	ND	62.8
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	33.6	ND	ND	7.5	31.2	ND	48.6
Xylenes (total)	ND	ND	140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.54	19.86	ND	125	16.34	110	ND
Total Volatile Organics (ug/m^3)	0	530	580	720	100	180	1860	130	0	0	0	570	279	192.5	590.1	276.38	189.86	0	517.07	130.88	1490	213

1. Total Volatile Organics = Sum of all detected Volatile Organic Compo
2. When computing Total Volatile Organics, not detected compounds a
3. From Feburary 2000 through May 2002, all samples were analyzed b
4. All concentrations are in micrograms per cubic meter. (ug/m3)
5. ND= Not Detected (please see Appendix D for detection limits)
6. NA= Not Analyzed for listed parameter
7. No data available for period of April 2002 through September 2002
8. Sampling for June was conducted late, therefore data from the July 3

TABLE 3-2
POST-TREATMENT VAPOR ANALYTICAL RESULTS

DAY TANK 1 SVE/AIR SPARGE SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Compound	2/28/2000	3/7/2000	3/16/2000	3/23/2000
1,1,1-Trichloroethane	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	1.5	0.74	0.83	ND
1,2-Dibromoethane	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
4-Ethyltoluene	ND	ND	ND	ND
Alpha-Chlorotoluene	ND	ND	ND	ND
Benzene	0.32	ND	0.86	ND
Bromoform	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Chloroform	ND	ND	0.68	ND
Chloromethane	ND	0.63	0.70	0.98
cis-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
Dichlorodifluoromethane	ND	0.78	1.5	1.6
Dichlorotetrafluroethane	ND	ND	ND	ND
Ethylbenzene	3.8	0.74	0.74	0.65
Freon 113	2.0	1.8	73	7.6
Freon 114	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Hexane	ND	ND	ND	ND
m,p-Xylene	5.2	1.1	1.6	1.1
m-Dichlorobenzene	6.6	5.6	5.0	3.9
Methyl Tert Butyl Ether	ND	ND	ND	ND
Methylene Chloride	1.4	ND	2.9	1.2
o-Dichlorobenzene	ND	ND	ND	ND
o-Xylene	1.7	0.56	0.61	0.52
p-Dichlorobenzene	0.66	ND	ND	ND
Styrene	6.8	1.3	1.2	2
Tetrachloroethene	0.94	4.3	3.4	ND
Toluene	13.0	1	34	1.4
trans-1,2-Dichloroethene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
Trichlorotrifluoroethane	ND	ND	ND	ND
Vinyl Chloride	ND	0.56	0.25	ND
Xylenes (total)	6.9	1.6	2.2	1.6
Total Volatile Organics	43.92	19.11	127.27	20.95

1. Total Volatile Organics = Sum of all detected Volatile Organic Compounds
2. In computing Total Volatile Organics, not detected compounds were assumed to be zero
3. All samples were analyzed by EPA Method 18, TO-14.
4. All concentrations are in micrograms per cubic meter.
5. ND= Not Detected (please see Appendix D for detection limits)

TABLE 3-3
POUNDS-PER-DAY LOADING / EMISSIONS RATES
DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Location	Sample Date	Flow Rate (SCFM)	Total VOC Concentration (mg/m3)	Loading Rate (lbs/day)
Pre-Treatment	02/28/00	44	8.842	0.035
	03/07/00	56	20.54	0.103
	03/16/00	61	7.399	0.041
	03/23/00	46	19.26	0.080
	05/30/00	44	30.42	0.120
	06/19/00	45	33.25	0.135
	07/24/00	50	34.08	0.153
	08/15/00	49	10.55	0.046
	09/18/00	51	4.13	0.019
	10/18/00	48	0.79	0.003
	11/13/00	48	4.69	0.020
	12/11/00	48	3.78	0.016
	01/17/01	45	2.27	0.009
	02/13/01	49	2.730	0.012
	03/12/01	70	4.104	0.026
	04/16/01	63	1.764	0.010
	05/03/01	65	3.047	0.018
	05/29/01	70	4.810	0.030
	06/15/01	70	2.050	0.013
	07/17/01	70	2.140	0.013
	08/14/01	60	0.550	0.003
	09/27/01	75	0.000	0.000
	10/15/01	70	0.530	0.003
	11/20/01	70	0.580	0.004
	12/12/01	70	0.720	0.005
	01/30/02	70	0.100	0.001
	02/19/02	70	0.180	0.001
	03/11/02	70	1.860	0.012
	04/08/02	70	0.130	0.001
	05/06/02	77	0.000	0.000
	06/10/02	77	0.000	0.000
	07/15/02	75	0.000	0.000
	08/21/02	70	0.570	0.004
	09/09/02	65	0.279	0.002
	10/21/02	39	0.193	0.001
	11/22/02	125	0.590	0.007
	12/16/02	46	0.276	0.001
	01/21/03	NM	0.189	--
	02/24/03	NM	0.000	--
	03/20/03	120	0.517	0.006
	04/10/03	114	0.156	0.001
	05/01/03	NM	1.490	
	06/27/03	118	0.213	0.002
Post-Treatment	02/28/00	44	0.044	0.00017
	03/07/00	56	0.019	0.00010
	03/16/00	61	0.127	0.00070
	03/23/00	46	0.030	0.00012

NOTE: Sample dates for 10/21/02-12/16/02 are the dates of Total VOC samples, Flow Rate sample dates are 10/17/02, 11/14/02, and 12/19/02.

TABLE 3-4
Groundwater Analytical Results
NAS Cecil Field, Jacksonville, Florida

Sample I.D.	Date	Benzene	Ethylbenzene	Toluene	Xylenes (total)	Acenapthylene	Acenapthene	Fluoranthene	Pyrene	Chrysene	Benzo (a) anthracene	Benzo(b) Fluoranthene	Benzo(k) Fluoranthene	Benzo(a) Pyrene	Benzo(g,h,i) Perylene	Indeno (1,2,3-cd) Pyrene	Naphthalene	1-Methylnapthalene	2-Methylnapthalene	Phenanthrene	Fluorene	Isopropylbenzene	Chloroform	n-Butylbenzene	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene
CEF-293-04	01/25/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/13/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/19/01	0.18	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/19/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/04/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/23/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/09/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
CEF 293-09	01/25/00	43.1	602	826	2150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	378	128	182	ND	--	--	--	--	--	--
	06/13/00	ND	1.4	ND	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/19/01	ND	ND	ND	0.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/05/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/23/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/09/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/06/03	3.8	4.3	ND	20.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9	ND	ND	ND	ND	5.8	ND	ND	ND	ND
CEF 293-13	01/25/00	57.6	43	2.3	70.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	124	54.2	68	ND	--	--	--	--	--	--
	06/13/00	128	124	3.1	193	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	157	64.2	82.2	ND	--	--	--	--	--	--
	09/14/00	112	106	2.2	161	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	163	61.1	75	ND	--	--	--	--	--	--
	12/21/00	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40.7	29.6	39.2	ND	--	--	--	--	--	--
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.6	15.5	20.6	ND	--	--	--	--	--	--
	06/25/01	0.24	1.3	ND	0.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	7	11	0.22	--	--	--	--	--	--
	09/19/01	ND	0.13	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.86	1.9	ND	--	--	--	--	--	--
	12/19/01	ND	0.53	ND	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.38	0.97	1.8	0.3	--	--	--	--	--	--
	03/20/02	ND	0.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.61	ND	--	--	--	--	--	--
	06/04/02	ND	0.44	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.63	0.26	--	--	--	--	--	--
	09/23/02	ND	0.4	ND	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.34	ND	0.26	--	--	--	--	--	--
	12/09/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--

TABLE 3-4
Groundwater Analytical Results
NAS Cecil Field, Jacksonville, Florida

Sample I.D.	Date	Benzene	Ethylbenzene	Toluene	Xylenes (total)	Acenapthylene	Acenapthene	Fluoranthene	Pyrene	Chrysene	Benzo (a) anthracene	Benzo(b) Fluoranthene	Benzo(k) Fluoranthene	Benzo(a) Pyrene	Benzo(g,h,i) Perylene	Indeno (1,2,3-cd) Pyrene	Naphthalene	1-Methylnapthalene	2-Methylnapthalene	Phenanthrene	Fluorene	Isopropylbenzene	Chloroform	n-Butylbenzene	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene
CEF 293-20	01/25/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/13/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/25/01	0.67	0.25	0.37	0.46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	54	19	21	0.34	--	--	--	--	--	--
	09/19/01	0.72	0.35	ND	1.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/19/01	0.68	ND	0.52	0.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/20/02	0.45	ND	ND	0.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/04/02	0.77	0.39	0.47	0.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	ND	0.24	ND	--	--	--	--	--	--
	09/23/02	0.55	0.3	0.24	0.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.61	ND	ND	ND	--	--	--	--	--	--
	12/10/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
CEF 293-22	01/25/00	24.2	19.4	0.88	47.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	142	59.6	67	ND	--	--	--	--	--	--
	06/13/00	43.2	60.6	5.5	218	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	188	80.3	95.4	ND	--	--	--	--	--	--
	09/14/00	6.4	8.4	ND	20.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	38.7	22	25.1	ND	--	--	--	--	--	--
	12/21/00	19.7	9.7	<1	11.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	95	31.6	42.4	ND	--	--	--	--	--	--
	03/15/01	32.6	28.2	0.97	72.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	148	49.7	71.3	ND	--	--	--	--	--	--
	06/25/01	25	12	ND	18.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	45	16	22	ND	--	--	--	--	--	--
	09/19/01	1.9	0.44	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.9	4.8	6.8	ND	--	--	--	--	--	--
	12/19/01	8.7	1.2	ND	1.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34.2	13.4	17	0.57	--	--	--	--	--	--
	03/20/02	2.2	0.43	ND	0.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.8	14	17.8	0.57	--	--	--	--	--	--
	06/04/02	1	0.92	ND	0.6	0.28	0.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.5	21.6	26.2	2.3	--	--	--	--	--	--
	09/23/02	0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7	5.9	8.5	0.52	--	--	--	--	--	--
	12/10/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.66	1.79	ND	--	--	--	--	--	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	ND	--	--	--	--	--	--
	06/09/03	ND	ND	ND	ND	ND	ND	ND	0.11	ND	ND	ND	ND	ND	ND	ND	0.64	4.97	3.76	0.21	0.13	ND	ND	ND	ND	ND
VEW-01	01/25/00	18.5	257	59.4	726	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	350	220	307	ND						
	06/13/00	FREE PRODUCT																								
	09/14/00	FREE PRODUCT																								
	12/21/00	FREE PRODUCT																								
	03/15/01	FREE PRODUCT																								
	06/25/01	FREE PRODUCT																								
	09/19/01	FREE PRODUCT																								
	10/03/01	FREE PRODUCT																								
	12/19/01	FREE PRODUCT																								
	03/20/02	FREE PRODUCT																								
	06/04/02	FREE PRODUCT																								
	09/23/02	FREE PRODUCT																								
	12/10/02	FREE PRODUCT																								
	03/11/03	FREE PRODUCT																								
	06/07/03	FREE PRODUCT																								

TABLE 3-4
Groundwater Analytical Results
NAS Cecil Field, Jacksonville, Florida

Sample I.D.	Date	Benzene	Ethylbenzene	Toluene	Xylenes (total)	Acenapthylene	Acenapthene	Fluoranthene	Pyrene	Chrysene	Benzo (a) anthracene	Benzo(b) Fluoranthene	Benzo(k) Fluoranthene	Benzo(a) Pyrene	Benzo(g,h,i) Perylene	Indeno (1,2,3-cd) Pyrene	Naphthalene	1-Methylnapthalene	2-Methylnapthalene	Phenanthrene	Fluorene	Isopropylbenzene	Chloroform	n-Butylbenzene	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene
VEW-02	01/25/00	91.6	149	29.2	573	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	283	118	139	ND	--	--	--	--	--	--
	06/13/00	FREE PRODUCT																			--	--	--	--	--	--
	09/14/00	ND	ND	ND	156	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/21/00	FREE PRODUCT																			--	--	--	--	--	--
	03/15/01	FREE PRODUCT																			--	--	--	--	--	--
	06/25/01	FREE PRODUCT																			--	--	--	--	--	--
	09/19/01	ND	14	ND	7.1	NA	ND	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	2.1	ND	5.9	0.28	0.69	ND	0.76	0.49	0.51	1.8	ND	ND	4.6	2.2	2.1	--	--	--	--	--	--
	12/19/01	ND	22	ND	12.6	8.9	2.2	11.6	18.2	1.3	1.2	0.93	0.86	ND	0.34	0.38	ND	19.3	18.7	7.5	--	--	--	--	--	--
	03/20/02	ND	ND	ND	0.85	ND	0.39	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.84	0.96	ND	--	--	--	--	--	--
	06/05/02	ND	0.45	ND	0.62	0.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.42	--	--	--	--	--	--
	09/23/02	ND	ND	ND	0.21	0.59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.24	0.3	--	--	--	--	--	--
	12/10/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/07/03	ND	ND	ND	ND	ND	ND	ND	0.16	ND	ND	ND	ND	ND	ND	ND	ND	1.06	0.42	ND	ND	ND	ND	3.2	2.3	6.00
VEW-03	01/25/00	24.4	85.6	11.5	128	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	220	78	102	ND	--	--	--	--	--	--
	06/13/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/19/01	ND	ND	ND	0.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/04/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.22	ND	--	--	--	--	--	--
	09/23/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/09/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/11/03	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/06/03	ND	ND	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND
VEW-04	01/25/00	81	138	7.8	288	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	232	88.7	108	ND	--	--	--	--	--	--
	06/13/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/19/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/04/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/23/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/10/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/07/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 3-4
Groundwater Analytical Results
NAS Cecil Field, Jacksonville, Florida

Sample I.D.	Date	Benzene	Ethylbenzene	Toluene	Xylenes (total)	Acenapthylene	Acenapthene	Fluoranthene	Pyrene	Chrysene	Benzo (a) anthracene	Benzo(b) Fluoranthene	Benzo(k) Fluoranthene	Benzo(a) Pyrene	Benzo(g,h,i) Perylene	Indeno (1,2,3-cd) Pyrene	Naphthalene	1-Methylnapthalene	2-Methylnapthalene	Phenanthrene	Fluorene	Isopropylbenzene	Chloroform	n-Butylbenzene	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene
VEW-05	01/25/00	118	72.5	11.3	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	194	59.8	86.1	ND	--	--	--	--	--	--
	06/13/00	33.2	ND	ND	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/19/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/04/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/23/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/09/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/06/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VEW-06	01/25/00	31.1	97.9	12.7	283	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	189	64.6	77.2	ND	--	--	--	--	--	--
	06/13/00	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/19/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/04/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/23/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/09/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
VEW-07	01/25/00	48	213	97.8	459	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	481	172	210	ND	--	--	--	--	--	--
	06/13/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/14/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/21/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/15/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/25/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/19/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/20/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/05/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/23/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/09/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	06/07/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND

TABLE 3-4
Groundwater Analytical Results
NAS Cecil Field, Jacksonville, Florida

Sample I.D.	Date	Benzene	Ethylbenzene	Toluene	Xylenes (total)	Acenapthylene	Acenapthene	Fluoranthene	Pyrene	Chrysene	Benzo (a) anthracene	Benzo(b) Fluoranthene	Benzo(k) Fluoranthene	Benzo(a) Pyrene	Benzo(g,h,i) Perylene	Indeno (1,2,3-cd) Pyrene	Naphthalene	1-Methylnapthalene	2-Methylnapthalene	Phenanthrene	Fluorene	Isopropylbenzene	Chloroform	n-Butylbenzene	1,2,4 Trimethylbenzene	1,3,5 Trimethylbenzene
VEW-08	01/25/00	53.4	242	4.5	451	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	393	124	162	ND	--	--	--	--	--	--
	06/13/00	4	41.8	1.4	37.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	86.6	44.9	39.6	ND	--	--	--	--	--	--
	09/14/00	ND	4.8	ND	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.5	6.5	5.2	ND	--	--	--	--	--	--
	12/21/00	ND	10.6	<1	9.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.7	16	17.1	ND	--	--	--	--	--	--
	03/15/01	ND	6.4	ND	5.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7	3.7	3.8	ND	--	--	--	--	--	--
	06/25/01	ND	1.5	ND	0.78	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36	0.46	0.96	ND	--	--	--	--	--	--
	09/19/01	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	--
	10/03/01	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.16	ND	0.5	ND	--	--	--	--	--	--
	12/19/01	ND	1.9	ND	1.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.84	0.67	ND	--	--	--	--	--	--
	03/20/02	ND	0.89	ND	0.88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	0.95	1.2	ND	--	--	--	--	--	--
	06/05/02	ND	1.7	ND	2.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	09/23/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	12/10/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
	03/11/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
Cleanup Goal - RAP		1	NA	NA	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GCTL		1	30	40	20	210	20	280	210	4.8	0.2	0.2	0.5	0.2	210	0.2	20	20	20	210	280	--	5.7	--	10	10
NADSC		100	300	400	200	2100	200	2800	2100	480	20	20	50	20	2100	20	200	200	200	2100	2800	--	570	--	100	100

Notes:
1. All concentrations are in µg/L.
2. No data for June, September, and October 2002 has been received.
3. ND= Not Detected, please see Appendix C for detection limits
4. NS = Not Sampled
5. NA = Not Analyzed

= above GC
= above NADSC

TABLE 3-5
GROUNDWATER FIELD ANALYTICAL RESULTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	pH (s. u.)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature (^oC)
CEF-293-4	01/25/00	6.69	0.218	NM	21.3
	06/13/00	6.15	0.259	-0.50	26.3
	09/14/00	6.30	0.246	1.94	27.4
	12/21/00	8.44	0.263	2.90	20.5
	03/15/01	6.30	0.247	1.22	20.6
	06/25/01	6.22	0.259	NM	25.2
	09/19/01	6.06	0.416	0.57	26.3
	12/19/01	7.22	0.232	3.75	22.7
	03/20/02	6.19	0.244	3.19	21.2
	06/04/02	6.23	0.241	3.09	26.4
	09/24/02	6.23	0.212	1.44	27.4
	12/09/02	5.51	NM	2.80	24.6
	03/11/03	4.74	0.225	1.11	18.43
	06/06/03	NS	NS	NS	NS
CEF-293-9	01/25/00	5.99	0.088	NM	21.4
	06/13/00	5.55	0.068	-0.36	24.6
	09/14/00	6.03	0.830	2.82	26.0
	12/21/00	7.71	0.075	5.50	22.4
	03/15/01	6.29	0.066	7.80	20.7
	06/25/01	6.31	0.094	NM	23.3
	09/19/01	5.94	0.244	4.93	25.0
	12/19/01	7.19	0.079	5.88	23.2
	03/20/02	7.03	0.119	6.33	21.8
	06/04/02	7.00	0.235	3.90	24.2
	09/23/02	6.70	0.221	5.99	26.1
	12/09/02	5.48	NM	6.60	24.0
	03/11/03	5.90	0.29	4.29	20.9
	06/06/03	6.00	0.472	0	23.26
CEF-293-13	01/25/00	5.64	0.039	NM	21.4
	06/13/00	4.99	0.068	-0.33	24.4
	09/14/00	4.87	0.054	2.14	26.1
	12/21/00	7.41	0.075	1.42	21.5
	03/15/01	5.50	0.063	2.14	19.8
	06/25/01	5.01	0.069	NM	24.4
	09/19/01	5.43	0.157	2.34	26.9
	12/19/01	6.22	0.068	2.22	23.0
	03/20/02	5.44	0.099	1.32	21.1
	06/04/02	5.79	0.115	1.54	26.1
	09/23/02	5.18	0.112	0.55	28.2
	12/09/02	4.98	NM	0.50	23.9
	03/11/03	5.30	0.105	1.7	20.0
	06/06/03	NS	NS	NS	NS
CEF-293-20	01/25/00	5.96	0.062	NM	20.8
	06/13/00	5.04	0.083	-0.16	27.0
	09/14/00	5.19	0.100	1.38	29.3
	12/21/00	7.65	0.101	2.24	24.6
	03/15/01	5.49	0.105	2.78	23.4
	06/25/01	4.83	0.103	NM	26.3
	09/19/01	5.34	0.149	2.00	29.0
	12/19/01	7.17	0.113	2.34	24.8
	03/20/02	5.99	0.234	1.90	23.6
	06/04/02	5.84	0.198	1.49	27.7
	09/23/02	5.99	0.317	0.17	30.2
	12/10/02	3.90	NM	0.55	24.2
	03/11/03	6.09	0.098	1.22	24.0
	06/06/03	NS	NS	NS	NS

TABLE 3-5
GROUNDWATER FIELD ANALYTICAL RESULTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	pH (s. u.)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature (^oC)
CEF-293-22	01/25/00	6.44	0.126	NM	23.0
	06/13/00	5.71	0.180	-0.47	27.7
	09/14/00	5.74	0.812	1.83	28.0
	12/21/00	8.14	0.573	2.80	23.1
	03/15/01	5.86	0.230	2.27	22.0
	06/25/01	5.55	0.365	NM	25.2
	09/19/01	5.69	1.030	3.22	27.6
	12/19/01	6.91	0.416	2.30	24.0
	03/20/02	5.87	0.463	6.50	21.8
	06/04/02	5.80	0.345	1.74	26.8
	09/23/02	5.74	0.677	0.58	28.5
	12/09/02	5.00	NM	0.60	24.8
	03/11/03	3.95	0.51	3.13	21.5
	06/07/03	5.72	0.428	0.12	25.9
VEW-1	01/25/00	5.33	0.057	NM	23.0
	06/13/00	NM	NM	NM	NM
	09/14/00	NM	NM	NM	NM
	12/21/00	NM	NM	NM	NM
	03/15/01	NM	NM	NM	NM
	06/25/01	NM	NM	NM	NM
	09/19/01	NM	NM	NM	NM
	12/19/01	NM	NM	NM	NM
	03/20/02	NM	NM	NM	NM
	06/04/02	NM	NM	NM	NM
	09/23/02	NM	NM	NM	NM
	12/09/02	NM	NM	NM	NM
	03/11/03	NM	NM	NM	NM
	06/07/03	NS	NS	NS	NS
VEW-2	01/25/00	5.63	0.085	NM	22.7
	06/13/00	NM	NM	NM	NM
	09/14/00	6.20	0.114	2.26	26.2
	12/21/00	NM	NM	NM	NM
	03/15/01	NM	NM	NM	NM
	06/25/01	NM	NM	NM	NM
	09/19/01	6.04	0.137	5.06	26.7
	12/19/01	7.00	0.095	2.26	24.8
	03/20/02	6.47	0.084	3.82	23.5
	06/05/02	6.46	0.096	2.89	25.5
	09/23/02	6.46	0.102	2.40	27.6
	12/10/02	5.20	NM	0.80	25.2
	03/11/03	5.90	0.11	2.51	21.1
	06/07/03	6.09	0.132	0	22.9
VEW-3	01/25/00	5.90	0.070	NM	22.1
	06/13/00	4.86	0.034	-0.57	26.2
	09/14/00	5.44	0.040	5.23	26.8
	12/21/00	7.74	0.047	6.02	22.8
	03/15/01	6.24	0.047	8.02	21.8
	06/25/01	4.80	0.056	NM	24.7
	09/19/01	6.38	0.130	5.86	26.9
	12/19/01	6.94	0.057	6.79	23.9
	03/20/02	5.64	0.081	5.91	23.0
	06/04/02	5.51	0.089	5.35	25.7
	09/23/02	6.57	0.130	5.33	28.1
	12/09/02	4.56	NM	7.40	24.9
	03/11/03	4.84	0.17	6.06	21.3
	06/07/03	5.61	0.159	0.34	25.1

TABLE 3-5
GROUNDWATER FIELD ANALYTICAL RESULTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	pH (s. u.)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature (^oC)
VEW-4	01/25/00	5.59	0.078	NM	23.0
	06/13/00	NM	NM	NM	NM
	09/14/00	6.48	0.086	2.48	26.6
	12/21/00	7.92	0.045	4.55	23.8
	03/15/01	5.31	0.045	6.81	22.2
	06/25/01	5.40	0.045	NM	24.8
	09/19/01	6.59	0.098	5.64	26.8
	12/19/01	7.42	0.050	5.34	24.0
	03/20/02	6.54	0.060	5.96	22.5
	06/04/02	5.27	0.054	4.77	27.6
	09/23/02	5.77	0.056	5.93	27.8
	12/10/02	5.00	NM	5.60	25.1
	03/11/03	4.35	0.126	5.85	22.4
	06/07/03	5.6	0.109	0	25.1
VEW-5	01/25/00	6.28	0.113	NM	21.5
	06/13/00	4.87	0.080	-0.59	25.5
	09/14/00	5.96	0.066	3.23	26.8
	12/21/00	7.84	0.069	3.42	21.6
	03/15/01	5.58	0.061	5.80	20.7
	06/25/01	5.35	0.060	NM	24.7
	09/19/01	6.14	0.106	4.78	27.4
	12/19/01	6.74	0.057	5.03	22.9
	03/20/02	6.17	0.074	6.85	21.7
	06/04/02	5.52	0.082	3.81	25.6
	09/23/02	6.23	0.094	4.51	28.3
	12/09/02	NM	NM	5.80	24.1
	03/11/03	4.35	0.104	5.25	20.7
	06/06/03	5.1	0.122	0.02	24.7
VEW-6	01/25/00	5.78	0.076	NM	21.4
	06/13/00	5.28	0.151	-0.60	26.0
	09/14/00	8.81	0.066	3.08	26.9
	12/21/00	7.37	0.083	4.33	22.3
	03/15/01	6.57	0.127	7.26	20.9
	06/25/01	5.54	0.064	NM	25.3
	09/19/01	6.30	0.145	5.18	27.3
	12/19/01	6.61	0.050	5.76	23.8
	03/20/02	6.39	0.120	5.98	22.5
	06/04/02	6.08	0.160	4.25	26.0
	09/23/02	6.10	0.171	4.80	28.2
	12/09/02	4.61	NM	6.10	24.7
	03/11/03	4.37	0.158	5.15	21.4
	06/07/03	NS	NS	NS	NS
VEW-7	01/25/00	5.63	0.074	NM	21.8
	06/13/00	5.12	0.126	-0.56	24.9
	09/14/00	5.52	0.070	2.22	25.8
	12/21/00	7.78	0.700	2.67	22.5
	03/15/01	5.96	0.068	6.65	21.5
	06/25/01	5.60	0.078	NM	24.0
	09/19/01	5.49	0.109	8.56	25.4
	12/19/01	6.83	0.064	3.04	23.3
	03/20/02	6.20	0.075	4.71	22.5
	06/05/02	6.24	0.083	2.60	24.5
	09/24/02	5.76	0.071	0.66	25.8
	12/10/02	4.90	NM	0.65	24.3
	03/11/03	4.98	0.111	2.69	18.5
	06/07/03	5.7	0.134	0	22.0

TABLE 3-5
GROUNDWATER FIELD ANALYTICAL RESULTS

DAY TANK 1 BIOSPARGE/VAPOR COLLECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	pH (s. u.)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Temperature (^oC)
VEW-8	01/25/00	6.29	0.206	NM	22.1
	06/13/00	5.60	0.219	-0.60	24.2
	09/14/00	5.77	0.118	1.92	25.9
	12/21/00	7.87	0.156	1.31	22.5
	03/15/01	6.35	0.137	2.06	21.2
	06/25/01	5.86	0.128	NM	23.4
	09/19/01	4.69	0.162	7.21	25.5
	12/19/01	5.5	0.089	3.75	23.0
	03/20/02	6.14	0.134	1.41	22.3
	06/05/02	6.11	0.153	1.83	24.4
	09/23/02	5.45	0.145	1.09	26.3
	12/10/02	5.10	NM	0.20	24.6
	03/11/03	3.58	0.108	2.95	18.68
	06/07/03	NS	NS	NS	NS

s. u. = standard units
mS/cm = milli siemens per centimeter
NS = Not Sampled
mg/L = Milligrams per Liter
^oC = Degrees Centigrade
NM = Not Measured

4.0 Conclusions and Recommendations

Groundwater sampled from monitoring wells CEF-293-22 and from vapor extraction wells VEW-2, VEW-3, VEW-4, VEW-5, were found to have contaminant concentrations less than the GCTL specified by Chapter 62-777. Groundwater sampled from monitoring well CEF-293-9 exhibited benzene and total xylene concentrations greater than the GCTL.

Vapor extraction well VEW-1 was not sampled during the monitoring period due to the presence of LNAPL. LNAPL has been bailed periodically from VEW-1 since October 2000, and a total of approximately 17.9 gallons has been recovered to date. No significant decreases in LNAPL thickness at VEW-1 were noted during the monitoring period.

It is believed that the source of the LNAPL in the vicinity of VEW-1 and VEW-2 is due to an underground abandoned fuel pipe that contained product. In March of 2003, a project under CTO No. 0021 to 'pig' the line to remove any remaining product was conducted by TetraTech NUS, Inc. (TtNUS).

It is recommended that groundwater sampling continue on a quarterly basis.

5.0 References

ABB Environmental Services, Inc. January 1997. Remedial Action Plan, Day Tank 1, Facility 293, Naval Air Station Cecil Field, Jacksonville, Florida.

CH2M HILL Constructors, Inc. January 2000. Work Plan Addendum No. 03, Day Tank 1 Biosparge and Vapor Collection System Installation, Naval Air Station Cecil Field, Jacksonville, Florida.

APPENDICES

A	*June 2003 Laboratory Analytical Reports for Air Samples*
B	*June 2003 Laboratory Analytical Reports for Groundwater Samples*
C	*2nd Quarter 2003 Groundwater Sampling Logs*
D	*2nd Quarter 2003 Site Visit Reports*

APPENDIX A

June 2003 Laboratory Analytical Reports for Air Samples

328373

TestAmerica, Inc.

2960 Foster Creighton Dr.
Nashville, TN 37204
Tel. No. 800-765-0980
Fax No. 615-726-0954

Terraine, Inc. - Chain Of Custody Record

ACCOUNT INFORMATION

TAI ACCOUNT NO: 9463
TAI QUOTE NO: D8230210902
NAME OF PR TO BILL: James L. Young
PURCHASE ORDER NO: 04-4000144.4

TERRAINE PROJECT NO: 0 4 - 4 0 3 0 1
TERRAINE TASK NO: [redacted] 44

DATE:
PAGE: ____ of ____

CONSULTANT COMPANY: TERRAINE, INC.
BILLING ADDRESS: 7380 Phillips Highway, Suite 106
CITY: Jacksonville Florida 32256
TELEPHONE: 904-296-8001
FAX: 305-513-4902 (main)
E-MAIL: jy@terraine.com

QC DELIVERABLES
- [x] STANDARD
- [ ] LEVEL 2
- [ ] LEVEL 3
- [ ] LEVEL 4

SITE DESCRIPTION: Day Tank 1
SITE ADDRESS (STREET, CITY, STATE): NAS Cecil Field, Jacksonville, Florida
PROJECT CONTACT (Print): James L. Young
PROJECT CONTACT CELL PHONE: 305-494-7702
SAMPLER NAME(S) (Print): Robbie Bendis - GFT
CONTRACT NO / CONTRACT TASK ORDER NO (for Federal Projects): N62467-02-G-0352 / CTO#0001
LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS): [x] STD [ ] 10 DAYS [ ] 5 DAYS [ ] 3 DAYS [ ] <24 HRS
ELECTRONIC DELIVERABLES: [x] FAX RESULTS [x] E-MAIL PDF [x] ELEC. DATA

TEMPERATURE ON RECEIPT (°C)

SPECIAL INSTRUCTIONS OR NOTES:

REQUESTED ANALYSIS (if more than one methods listed, circle one)

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX (AIR, GW, SOIL, SLUDGE, WW, ETC)	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH - Purgeable (8015) DRO	TPH - Extractable (8015) DRO	BTEX / MTBE (8021B, 602, 8260B/C)	BTEX / MTBE + Oxygenates (8260B)	VOCs Full List + Oxygenates (8260B)	VOCs Aromatic (8021B)	VOCs Halogenated (8021B)	PAH (HPLC 610, 8310) 8270	Metals (Specify)	TVPH (MRL 1, PLJPRO)	Vapor VOCs (TO-15) EPA/RL	Vapor VOCs Full List (EPA-18, TO-15)	Fire burn (8021, Halogenated, FL-Pro, As, Cd, Cr, Pb)	8 RCRA Metals	4 NCRA Metals (As, Cd, Cr, Pb)	TO-15					Container PID Readings or Laboratory Notes/Remarks
	DT1EFFLUENT			AIR				1		1																X					59302

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	[signature]	4/17/03	X
Relinquished by: (Signature) [signature]	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received by: (Signature) C. Wilt	Date 4.18.03	Time 815

39101 Revision

TEST AMERICA ANALYTICAL TESTING CORP.-NASHVILLE

COOLER RECEIPT FORM **BC#** 328373

Client: Terraint Inc

Cooler Received On And Opened On: 4/18/03 **By:** C. WILMOTH

C. Wilmoth
(Signature)

1. Temperature of Cooler when opened NA Degrees Celsius
2. Were custody seals on outside of cooler?.....YES...(NO)...NA
   a. If yes, how many, what kind and where:_____(Front/Back/Side)
3. Were custody seals on containers and intact?..... NO...YES...(NA)
4. Were the seals intact, signed, and dated correctly?.....YES....NO...NA
5. Were custody papers inside cooler?.....(YES)...NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....(YES)...NO...NA
7. Did you sign the custody papers in the appropriate place?.....(YES)....NO...NA
8. What kind of packing material used? (Bubblewrap) Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO...(NA)
10. Did all bottles arrive in good condition(unbroken)?.....(YES)...NO...NA
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....(YES)...NO...NA
12. Did all bottle labels and tags agree with custody papers?.....(YES)...NO...NA
13. Were correct bottles used for the analysis requested?.....YES...NO...(NA)
14. a. Were VOA vials received?.....YES...NO...(NA)
    b. Was there any observable head space present in any VOA vial?.....NO...YES...(NA)
15. Was sufficient amount of sample sent in each bottle?.....YES...NO...(NA)
16. Were correct preservatives used?.....YES...NO...(NA)
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?.....NO...YES...(NA)
18. See attached for resolution of non-conformance:

(Fed-Ex) UPS Velocity Airborne Route Off-street Misc.

11/14/2003 14:50 305-513-4902 MFC MIAMI - TERRAINE PAGE 02

TestAmerica
ANALYTICAL TESTING CORPORATION

2060 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

4/30/03

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: DAY TANK 1
Project Number: 04-40001.
Laboratory Project Number: 328373.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Sample Identification	Lab Number	Collection Date
DT1 EFFLUENT	03-A59302	

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Roxanne L Connor Report Date: 4/30/03

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: E87358

TestAmerica
ANALYTICAL TESTING CORPORATION

2900 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: 04-40001
Project Name: DAY TANK 1
Sampler: ROBBIE BENDLE

Lab Number: 03-A59302
Sample ID: DT1 EFFLUENT
Sample Type: AIR
Site ID:

Date Collected:
Time Collected:
Date Received: 4/18/03
Time Received: 8:15

Analyte	Result ppbv	Result ug/m3	Dilution Factor	Analysis Date	Analysis Time	Analyst	Method
Bromodichloromethane	< 0.50	< 3.38	1.	4/29/03	10:02	C. Wani	TO-15
Bromoform	< 0.50	< 5.21	1.	4/29/03	10:02	C. Wani	TO-15
Dibromochloromethane	< 0.50	< 4.29	1.	4/29/03	10:02	C. Wani	TO 15
Dichlorodifluoromethane	0.60	3.00	1.	4/29/03	10:02	C. Wani	TO-15
Trichlorofluoromethane	< 0.50	< 2.83	1.	4/29/03	10:02	C. Wani	TO-15
Cyclohexane	< 0.50	< 1.75	1.	4/29/03	10:02	C. Wani	TO-15
Carbon Disulfide	0.90	2.85	1.	4/29/03	10:02	C. Wani	TO-15
Vinyl Chloride	< 1.00	< 2.58	1.	4/29/03	10:02	C. Wani	TO-15
1,4-Dioxane	< 1.00	< 3.67	1.	4/29/03	10:02	C. Wani	TO-15
Chloromethane	0.90	1.88	1.	4/29/03	10:02	C. Wani	TO-15
Propylene	6.90	12.1	1.	4/29/03	10:02	C. Wani	TO-15
Bromomethane	< 0.50	< 1.96	1.	4/29/03	10:02	C. Wani	TO-15
Dichlorotetrafluoromethane	< 1.00	< 7.08	1.	4/29/03	10:02	C. Wani	TO-15
Chloroethane	< 0.50	< 1.33	1.	4/29/03	10:02	C. Wani	TO-15
1,3-Butadiene	< 0.50	< 1.12	1.	4/29/03	10:02	C. Wani	TO-15
1,1-Dichloroethane	< 0.50	< 2.04	1.	4/29/03	10:02	C. Wani	TO-15
Trichlorotrifluoroethane	< 0.50	< 3.88	1.	4/29/03	10:02	C. Wani	TO-15
t-1,2-Dichloroethene	< 0.50	< 2.00	1.	4/29/03	10:02	C. Wani	TO-15
2-Hexanone	< 1.00	< 4.17	1.	4/29/03	10:02	C. Wani	TO-15
1,2-Dichloropropane	< 0.50	< 2.33	1.	4/29/03	10:02	C. Wani	TO-15
m,p-Xylene	1.90	8.74	1.	4/29/03	10:02	C. Wani	TO 15
1,1,2-Trichloroethane	< 0.50	< 2.75	1.	4/29/03	10:02	C. Wani	TO-15
o-Xylene	2.40	10.6	1.	4/29/03	10:02	C. Wani	TO-15
1,2-Dibromoethane	< 0.50	< 3.88	1.	4/29/03	10:02	C. Wani	TO-15
Chlorobenzene	< 0.50	< 2.33	1.	4/29/03	10:02	C. Wani	TO-15
Hexachloro-1,3-butadiene	< 0.50	< 5.38	1.	4/29/03	10:02	C. Wani	TO-15

Sample report continued . . .

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: 04-40001
Project Name: DAY TANK 1
Sampler: ROBBIE BENDLE

Lab Number: 03-A59302
Sample ID: DT1 EFFLUENT
Sample Type: AIR
Site ID:

Date Collected:
Time Collected:
Date Received: 4/18/03
Time Received: 8:15

Analyte	Result ppbv	Result ug/m3	Dilution Factor	Analysis Date	Time	Analyst	Method
c-1,3-Dichloropropene	< 0.50	< 2.29	1.	4/29/03	10:02	C. Wani	TO-15
t-1,3-Dichloropropene	< 0.50	< 2.29	1.	4/29/03	10:02	C. Wani	TO-15
Styrene	< 0.50	< 2.17	1.	4/29/03	10:02	C. Wani	TO-15
1,1,2,2-Tetrachloroethane	< 0.50	< 3.46	1.	4/29/03	10:02	C. Wani	TO-15
1,3,5-Trimethylbenzene	8.80	44.0	1.	4/29/03	10:02	C. Wani	TO-15
1,2,4-Trimethylbenzene	3.00	15.0	1.	4/29/03	10:02	C. Wani	TO-15
1,2-Dichlorobenzene	< 0.50	< 3.04	1.	4/29/03	10:02	C. Wani	TO-15
1,3-Dichlorobenzene	< 0.50	< 3.04	1.	4/29/03	10:02	C. Wani	TO-15
1,4-Dichlorobenzene	< 0.50	< 3.04	1.	4/29/03	10:02	C. Wani	TO-15
1,2,4-Trichlorobenzene	< 0.50	< 3.75	1.	4/29/03	10:02	C. Wani	TO-15
Methylisobutyl ketone	< 1.00	< 4.17	1.	4/29/03	10:02	C. Wani	TO-15
Heptane	< 0.500	< 2.08	1.	4/29/03	10:02	C. Wani	TO-15
Hexane	< 0.500	< 1.79	1.	4/29/03	10:02	C. Wani	TO-15
Methylene Chloride	< 0.50	< 1.75	1.	4/29/03	10:02	C. Wani	TO-15
Tetrahydrofuran	< 0.500	< 1.50	1.	4/29/03	10:02	C. Wani	TO-15
Toluene	0.60	2.30	1.	4/29/03	10:02	C. Wani	TO-15
Benzene	< 0.50	< 1.62	1.	4/29/03	10:02	C. Wani	TO-15
Chloroform	< 0.50	< 2.46	1.	4/29/03	10:02	C. Wani	TO-15
Carbon tetrachloride	< 0.50	< 3.17	1.	4/29/03	10:02	C. Wani	TO-15
Tetrachloroethene	< 0.50	< 3.42	1.	4/29/03	10:02	C. Wani	TO-15
Trichloroethene	< 0.50	< 2.71	1.	4/29/03	10:02	C. Wani	TO-15
Vinyl Acetate	< 1.00	< 3.58	1.	4/29/03	10:02	C. Wani	TO-15
Ethylbenzene	0.50	2.21	1.	4/29/03	10:02	C. Wani	TO-15
Methyl-t-butyl ether	< 0.500	< 1.83	1.	4/29/03	10:02	C. Wani	TO-15
Ethyl acetate	< 0.500	< 1.83	1.	4/29/03	10:02	C. Wani	TO-15
1,1,1-Trichloroethane	< 0.50	< 2.75	1.	4/29/03	10:02	C. Wani	TO-15

Sample report continued . . .

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: 04-40001
Project Name: DAY TANK 1
Sampler: ROBBIE BENDLE

Lab Number: 03-A59302
Sample ID: DT1 EFFLUENT
Sample Type: AIR
Site ID:

Date Collected:
Time Collected:
Date Received: 4/18/03
Time Received: 8:15

Analyte	Result ppbV	Result ug/m3	Dilution Factor	Analysis Date	Analysis Time	Analyst	Method
Isopropyl Alcohol	< 1.00	< 2.50	1.	4/29/03	10:02	C. Wani	TO-15
1,2-Dichloroethane	< 0.50	< 2.04	1.	4/29/03	10:02	C. Wani	TO-15
c-1,2-Dichloroethene	< 0.50	< 2.00	1.	4/29/03	10:02	C. Wani	TO-15
Acetone	< 1.00	< 2.42	1.	4/29/03	10:02	C. Wani	TO-15
1,1-Dichloroethene	< 0.50	< 2.00	1.	4/29/03	10:02	C. Wani	TO-15
2-Butanone	10.4	31.2	1.	4/29/03	10:02	C. Wani	TO-15
4-Ethyltoluene	< 0.50	< 2.50	1.	4/29/03	10:02	C. Wani	TO-15

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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PROJECT QUALITY CONTROL DATA
Project Number: 04-40001
Project Name: DAY TANK 1
Page: 1
Laboratory Receipt Date: 4/18/03

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Bromodichloromethane	ppbv	10.0	10.3	103	70 - 130	2853
Bromoform	ppbv	10.0	10.7	107	70 - 130	2853
Dibromochloromethane	ppbv	10.0	10.9	109	70 - 130	2853
Dichlorodifluoromethane	ppbv	10.0	10.8	108	70 - 130	2853
Trichlorofluoromethane	ppbv	10.0	10.4	104	70 - 130	2853
Cyclohexane	ppbv	10.0	10.5	105	70 - 130	2853
Carbon Disulfide	ppbv	10.0	7.90	79	70 - 130	2853
Vinyl Chloride	ppbv	10.0	10.8	108	70 - 130	2853
1,4-Dioxane	ppbv	10.0	8.70	87	70 - 130	2853
Chloromethane	ppbv	10.0	10.3	103	70 - 130	2853
Propylene	ppbv	10.0	10.1	101	70 - 130	2853
Bromomethane	ppbv	10.0	10.5	105	70 - 130	2853
Dichlorotetrafluoromethane	ppbv	10.0	10.2	102	70 - 130	2853
Chloroethane	ppbv	10.0	10.1	101	70 - 130	2853
1,3-Butadiene	ppbv	10.0	10.0	100	70 - 130	2853
1,1-Dichloroethane	ppbv	10.0	10.0	100	70 - 130	2853
Trichlorotrifluoroethane	ppbv	10.0	10.6	106	70 - 130	2853
t-1,2-Dichloroethene	ppbv	10.0	10.1	101	70 - 130	2853
2-Hexanone	ppbv	10.0	10.6	106	70 - 130	2853
1,2-Dichloropropane	ppbv	10.0	10.0	100	70 - 130	2853
m,p-Xylene	ppbv	10.0	10.3	103	70 - 130	2853
1,1,2-Trichloroethane	ppbv	10.0	10.6	106	70 - 130	2853
o-Xylene	ppbv	10.0	10.0	100	70 - 130	2853
1,2 Dibromoethane	ppbv	10.0	10.9	109	70 - 130	2853
Chlorobenzene	ppbv	10.0	10.6	106	70 - 130	2853
Hexachloro-1,3-butadiene	ppbv	10.0	11.1	111	70 - 130	2853
c-1,3-Dichloropropene	ppbv	10.0	10.6	106	70 - 130	2853
t-1,3-Dichloropropene	ppbv	10.0	10.6	106	70 - 130	2853
Styrene	ppbv	10.0	10.6	106	70 - 130	2853

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-40001
Project Name: DAY TANK 1
Page: 2
Laboratory Receipt Date: 4/18/03

1,1,2,2-Tetrachloroethane	ppbv	10.0	9.10	91	70 - 130	2853
1,3,5-Trimethylbenzene	ppbv	10.0	10.1	101	70 - 130	2853
1,2,4-Trimethylbenzene	ppbv	10.0	10.1	101	70 - 130	2853
1,2-Dichlorobenzene	ppbv	10.0	10.7	107	70 - 130	2853
1,3-Dichlorobenzene	ppbv	10.0	11.0	110	70 - 130	2853
1,4-Dichlorobenzene	ppbv	10.0	11.0	110	70 - 130	2853
1,2,4-Trichlorobenzene	ppbv	10.0	11.0	110	70 - 130	2853
Methylisobutyl ketone	ppbv	10.0	10.7	107	70 - 130	2053
Heptane	ppbv	10.0	10.0	100	70 - 130	2853
Hexane	ppbv	10.0	10.5	105	70 - 130	2853
Methylene Chloride	ppbv	10.0	9.10	91	70 - 130	2853
Tetrahydrofuran	ppbv	10.0	10.8	108	70 - 130	2853
Toluene	ppbv	10.0	11.0	110	70 - 130	2853
Benzene	ppbv	10.0	10.3	103	70 - 130	2853
Chloroform	ppbv	10.0	10.3	103	70 - 130	2853
Carbon tetrachloride	ppbv	10.0	10.7	107	70 - 130	2853
Tetrachloroethene	ppbv	10.0	12.0	120	70 - 130	2853
Trichloroethene	ppbv	10.0	11.3	113	70 - 130	2853
Vinyl Acetate	ppbv	10.0	9.10	91	70 - 130	2853
Ethylbenzene	ppbv	10.0	10.5	105	70 - 130	2853
Methyl-t-butyl ether	ppbv	10.0	10.5	105	70 - 130	2853
Ethyl acetate	ppbv	10.0	10.1	101	70 - 130	2853
1,1,1-Trichloroethane	ppbv	10.0	10.6	106	70 - 130	2853
Isopropyl Alcohol	ppbv	10.0	9.20	92	70 - 130	2853
1,2-Dichloroethane	ppbv	10.0	10.2	102	70 - 130	2853
c 1,2 Dichloroethene	ppbv	10.0	10.2	102	70 - 130	2853
Acetone	ppbv	10.0	10.3	103	70 - 130	2853
1,1-Dichloroethene	ppbv	10.0	10.7	107	70 - 130	2853
2-Butanone	ppbv	10.0	9.60	96	70 - 130	2853
4-Ethyltoluene	ppbv	10.0	10.1	101	70 - 130	2853

Project QC continued . . .

11/14/2003 14:50 305-513-4902 MFC MIAMI - TERRAINE PAGE 08

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PROJECT QUALITY CONTROL DATA
Project Number: 04-40001
Project Name: DAY TANK 1
Page: 3
Laboratory Receipt Date: 4/18/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
MISC PARAMETERS					
Bromodichloromethane	< 0.50	ppbv	2853	4/28/03	22:29
Bromoform	< 0.50	ppbv	2853	4/28/03	22:29
Dibromochloromethane	< 0.50	ppbv	2853	4/28/03	22:29
Dichlorodifluoromethane	< 0.50	ppbv	2853	4/28/03	22:29
Trichlorofluoromethane	< 0.50	ppbv	2853	4/28/03	22:29
Cyclohexane	< 0.50	ppbv	2853	4/28/03	22:29
Carbon Disulfide	< 0.50	ppbv	2853	4/28/03	22:29
Vinyl Chloride	< 1.00	ppbv	2853	4/28/03	22:29
1,4-Dioxane	< 1.00	ppbv	2853	4/28/03	22:29
Chloromethane	< 0.50	ppbv	2853	4/28/03	22:29
Propylene	< 0.50	ppbv	2853	4/28/03	22:29
Bromomethane	< 0.50	ppbv	2853	4/28/03	22:29
Dichlorotetrafluoromethane	< 1.00	ppbv	2853	4/28/03	22:29
Chloroethane	< 0.50	ppbv	2853	4/28/03	22:29
1,3-Butadiene	< 0.50	ppbv	2853	4/28/03	22:29
1,1-Dichloroethane	< 0.50	ppbv	2853	4/28/03	22:29
Trichlorotrifluoroethane	< 0.50	ppbv	2853	4/28/03	22:29
t-1,2-Dichloroethene	< 0.50	ppbv	2853	4/28/03	22:29
2-Hexanone	< 1.00	ppbv	2853	4/28/03	22:29
1,2-Dichloropropane	< 0.50	ppbv	2853	4/28/03	22:29
m,p-Xylene	< 0.50	ppbv	2853	4/28/03	22:29
1,1,2-Trichloroethane	< 0.50	ppbv	2853	4/28/03	22:29
o-Xylene	< 0.50	ppbv	2853	4/28/03	22:29
1,2-Dibromoethane	< 0.50	ppbv	2853	4/28/03	22:29

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-40001
Project Name: DAY TANK 1
Page: 4
Laboratory Receipt Date: 4/18/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Chlorobenzene	< 0.50	ppbv	2853	4/28/03	22:29
Hexachloro-1,3-butadiene	< 0.50	ppbv	2853	4/28/03	22:29
c-1,3-Dichloropropene	< 0.50	ppbv	2853	4/28/03	22:29
t-1,3-Dichloropropene	< 0.50	ppbv	2853	4/28/03	22:29
Styrene	< 0.50	ppbv	2853	4/28/03	22:29
1,1,2,2-Tetrachloroethane	< 0.50	ppbv	2853	4/28/03	22:29
1,3,5-Trimethylbenzene	< 0.50	ppbv	2853	4/28/03	22:29
1,2,4 Trimethylbenzene	< 0.50	ppbv	2853	4/28/03	22:29
1,2-Dichlorobenzene	< 0.50	ppbv	2853	4/28/03	22:29
1,3-Dichlorobenzene	< 0.50	ppbv	2853	4/28/03	22:29
1,4-Dichlorobenzene	< 0.50	ppbv	2853	4/28/03	22:29
1,2,4-Trichlorobenzene	< 0.50	ppbv	2853	4/28/03	22:29
Methylisobutyl ketone	< 1.00	ppbv	2853	4/28/03	22:29
Heptane	< 0.500	ppbv	2853	4/28/03	22:29
Hexane	< 0.500	ppbv	2853	4/28/03	22:29
Methylene Chloride	1.00	ppbv	2853	4/28/03	22:29
Tetrahydrofuran	< 0.500	ppbv	2853	4/28/03	22:29
Toluene	< 0.50	ppbv	2853	4/28/03	22:29
Benzene	< 0.50	ppbv	2853	4/28/03	22:29
Chloroform	< 0.50	ppbv	2853	4/28/03	22:29
Carbon Tetrachloride	< 0.50	ppbv	2853	4/28/03	22:29
Tetrachloroethene	< 0.50	ppbv	2853	4/28/03	22:29
Trichloroethene	< 0.50	ppbv	2853	4/28/03	22:29
Vinyl Acetate	< 1.00	ppbv	2853	4/28/03	22:29
Ethylbenzene	< 0.50	ppbv	2853	4/28/03	22:29
Methyl-t-butyl ether	< 0.500	ppbv	2853	4/28/03	22:29
Ethyl acetate	< 0.500	ppbv	2853	4/28/03	22:29
1,1,1-Trichloroethane	< 0.50	ppbv	2853	4/28/03	22:29
Isopropyl Alcohol	< 1.00	ppbv	2853	4/28/03	22:29
1,2-Dichloroethane	< 0.50	ppbv	2853	4/28/03	22:29
c-1,2-Dichloroethene	< 0.50	ppbv	2853	4/28/03	22:29

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-40001
Project Name: DAY TANK 1
Page: 5
Laboratory Receipt Date: 4/18/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Acetone	< 1.00	ppbv	2853	4/28/03	22:29
1,1-Dichloroethene	< 0.50	ppbv	2853	4/28/03	22:29
2-Butanone	< 0.50	ppbv	2853	4/28/03	22:29
4-Ethyltoluene	< 0.50	ppbv	2853	4/28/03	22:29

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 328373

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6/16/03

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name:
Project Number: .
Laboratory Project Number: 332692.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Sample Identification	Lab Number	Collection Date
	03-A78596	

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Report Date: 6/13/03

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: E87358

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project:
Project Name:
Sampler:

Lab Number: 03-A78596
Sample ID:
Sample Type: Summa
Site ID:

Date Collected:
Time Collected:
Date Received: 5/21/03
Time Received: 16:24

Analyte	Result ppbV	Result ug/m3	Dilution Factor	Analysis Date	Time	Analyst	Method
Bromodichloromethane	< 25.0	< 169.	50.	6/12/03	15:08	C. Wani	TO-15
Bromoform	< 25.0	< 260.	50.	6/12/03	15:08	C. Wani	TO-15
Dibromochloromethane	< 25.0	< 215.	50.	6/12/03	15:08	C. Wani	TO-15
Dichlorodifluoromethane	< 25.0	< 125.	50.	6/12/03	15:08	C. Wani	TO-15
Trichlorofluoromethane	< 25.0	< 142.	50.	6/12/03	15:08	C. Wani	TO-15
Cyclohexane	< 25.0	< 87.5	50.	6/12/03	15:08	C. Wani	TO-15
Carbon Disulfide	< 25.0	< 79.2	50.	6/12/03	15:08	C. Wani	TO-15
Vinyl Chloride	< 50.0	< 129.	50.	6/12/03	15:08	C. Wani	TO-15
1,4-Dioxane	< 50.0	< 183.	50.	6/12/03	15:08	C. Wani	TO-15
Chloromethane	< 25.0	< 52.1	50.	6/12/03	15:08	C. Wani	TO-15
Propylene	< 25.0	< 43.8	50.	6/12/03	15:08	C. Wani	TO-15
Bromomethane	< 25.0	< 97.9	50.	6/12/03	15:08	C. Wani	TO-15
Dichlorotetrafluoromethane	< 50.0	< 354.	50.	6/12/03	15:08	C. Wani	TO-15
Chloroethane	< 25.0	< 66.7	50.	6/12/03	15:08	C. Wani	TO-15
1,3-Butadiene	< 25.0	< 56.2	50.	6/12/03	15:08	C. Wani	TO-15
1,1-Dichloroethane	< 25.0	< 102.	50.	6/12/03	15:08	C. Wani	TO-15
Trichlorotrifluoroethane	< 25.0	< 194.	50.	6/12/03	15:08	C. Wani	TO-15
t-1,2-Dichloroethene	< 25.0	< 100.	50.	6/12/03	15:08	C. Wani	TO-15
2-Hexanone	< 50.0	< 208.	50.	6/12/03	15:08	C. Wani	TO-15
1,2-Dichloropropane	< 25.0	< 117.	50.	6/12/03	15:08	C. Wani	TO-15
m,p-Xylene	< 25.0	< 110.	50.	6/12/03	15:08	C. Wani	TO-15
1,1,2-Trichloroethane	< 25.0	< 138.	50.	6/12/03	15:08	C. Wani	TO-15
o-Xylene	25.0	110.	50.	6/12/03	15:08	C. Wani	TO-15
1,2-Dibromoethane	< 25.0	< 194.	50.	6/12/03	15:08	C. Wani	TO-15
Chlorobenzene	< 25.0	< 117.	50.	6/12/03	15:08	C. Wani	TO-15
Hexachloro-1,3-butadiene	< 25.0	< 269.	50.	6/12/03	15:08	C. Wani	TO-15

Sample report continued . . .

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project:
Project Name:
Sampler:

Lab Number: 03-A78596
Sample ID:
Sample Type: Summa
Site ID:

Date Collected:
Time Collected:
Date Received: 5/21/03
Time Received: 16:24

Analyte	Result ppbV	Result ug/m3	Dilution Factor	Analysis Date	Analysis Time	Analyst	Method
c-1,3-Dichloropropene	< 25.0	< 115.	50.	6/12/03	15:08	C. Wani	TO-15
t-1,3-Dichloropropene	< 25.0	< 115.	50.	6/12/03	15:08	C. Wani	TO-15
Styrene	< 25.0	< 108.	50.	6/12/03	15:08	C. Wani	TO-15
1,1,2,2-Tetrachloroethane	< 25.0	< 173.	50.	6/12/03	15:08	C. Wani	TO-15
1,3,5-Trimethylbenzene	< 25.0	< 125.	50.	6/12/03	15:08	C. Wani	TO-15
1,2,4-Trimethylbenzene	< 25.0	< 125.	50.	6/12/03	15:08	C. Wani	TO-15
1,2-Dichlorobenzene	< 25.0	< 152.	50.	6/12/03	15:08	C. Wani	TO-15
1,3-Dichlorobenzene	< 25.0	< 152.	50.	6/12/03	15:08	C. Wani	TO-15
1,4-Dichlorobenzene	< 25.0	< 152.	50.	6/12/03	15:08	C. Wani	TO-15
1,2,4-Trichlorobenzene	< 25.0	< 188.	50.	6/12/03	15:08	C. Wani	TO-15
Methylisobutyl ketone	< 50.0	< 208.	50.	6/12/03	15:08	C. Wani	TO-15
Heptane	< 25.0	< 104.	50.	6/12/03	15:08	C. Wani	TO-15
Hexane	< 25.0	< 89.6	50.	6/12/03	15:08	C. Wani	TO-15
Methylene Chloride	< 25.0	< 87.5	50.	6/12/03	15:08	C. Wani	TO-15
Tetrahydrofuran	460.	1380	50.	6/12/03	15:08	C. Wani	TO-15
Toluene	< 25.0	< 95.8	50.	6/12/03	15:08	C. Wani	TO-15
Benzene	< 25.0	< 81.2	50.	6/12/03	15:08	C. Wani	TO-15
Chloroform	< 25.0	< 123.	50.	6/12/03	15:08	C. Wani	TO-15
Carbon tetrachloride	< 25.0	< 158.	50.	6/12/03	15:08	C. Wani	TO-15
Tetrachloroethene	< 25.0	< 171.	50.	6/12/03	15:08	C. Wani	TO-15
Trichloroethene	< 25.0	< 135.	50.	6/12/03	15:08	C. Wani	TO-15
Vinyl Acetate	< 50.0	< 179.	50.	6/12/03	15:08	C. Wani	TO-15
Ethylbenzene	< 25.0	< 110.	50.	6/12/03	15:08	C. Wani	TO-15
Methyl-t-butyl ether	< 25.0	< 91.7	50.	6/12/03	15:08	C. Wani	TO-15
Ethyl acetate	< 25.0	< 91.7	50.	6/12/03	15:08	C. Wani	TO-15
1,1,1-Trichloroethane	< 25.0	< 138.	50.	6/12/03	15:08	C. Wani	TO-15

Sample report continued . . .

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Lab Number: 03-A78596
Sample ID:
Sample Type: Summa
Site ID:

Project:
Project Name:
Sampler:

Date Collected:
Time Collected:
Date Received: 5/21/03
Time Received: 16:24

Analyte	Result ppbV	Result ug/m3	Dilution Factor	Analysis Date	Time	Analyst	Method
Isopropyl Alcohol	< 50.0	< 125.	50.	6/12/03	15:08	C. Wani	TO-15
1,2-Dichloroethane	< 25.0	< 102.	50.	6/12/03	15:08	C. Wani	TO-15
c-1,2-Dichloroethene	< 25.0	< 100.	50.	6/12/03	15:08	C. Wani	TO-15
Acetone	< 50.0	< 121.	50.	6/12/03	15:08	C. Wani	TO-15
1,1-Dichloroethene	< 25.0	< 100.	50.	6/12/03	15:08	C. Wani	TO-15
2-Butanone	< 25.0	< 75.0	50.	6/12/03	15:08	C. Wani	TO-15
4-Ethyltoluene	< 25.0	< 125.	50.	6/12/03	15:08	C. Wani	TO-15

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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PROJECT QUALITY CONTROL DATA
Project Number:
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
MISC PARAMETERS						
Bromodichloromethane	ppbv	10.0	10.1	101	70 - 130	7949
Bromodichloromethane	ppbv	10.0	10.2	102	70 - 130	7949
Bromoform	ppbv	10.0	13.1	131 #	70 - 130	7949
Bromoform	ppbv	10.0	13.7	137 #	70 - 130	7949
Dibromochloromethane	ppbv	10.0	11.3	113	70 - 130	7949
Dibromochloromethane	ppbv	10.0	11.6	116	70 - 130	7949
Dichlorodifluoromethane	ppbv	10.0	9.80	98	70 - 130	7949
Dichlorodifluoromethane	ppbv	10.0	9.40	94	70 - 130	7949
Trichlorofluoromethane	ppbv	10.0	10.3	103	70 - 130	7949
Trichlorofluoromethane	ppbv	10.0	10.2	102	70 - 130	7949
Cyclohexane	ppbv	10.0	9.80	98	70 - 130	7949
Cyclohexane	ppbv	10.0	9.70	97	70 - 130	7949
Carbon Disulfide	ppbv	10.0	9.80	98	70 - 130	7949
Carbon Disulfide	ppbv	10.0	9.70	97	70 - 130	7949
Vinyl Chloride	ppbv	10.0	9.80	98	70 - 130	7949
Vinyl Chloride	ppbv	10.0	9.60	96	70 - 130	7949
1,4-Dioxane	ppbv	10.0	18.8	188 #	70 - 130	7949
1,4-Dioxane	ppbv	10.0	19.6	196 #	70 - 130	7949
Chloromethane	ppbv	10.0	8.80	88	70 - 130	7949
Chloromethane	ppbv	10.0	8.40	84	70 - 130	7949
Propylene	ppbv	10.0	8.70	87	70 - 130	7949
Propylene	ppbv	10.0	8.20	82	70 - 130	7949
Bromomethane	ppbv	10.0	10.5	105	70 - 130	7949
Bromomethane	ppbv	10.0	10.6	106	70 - 130	7949
Dichlorotetrafluoromethane	ppbv	10.0	9.80	98	70 - 130	7949
Dichlorotetrafluoromethane	ppbv	10.0	9.40	94	70 - 130	7949
Chloroethane	ppbv	10.0	9.50	95	70 - 130	7949
Chloroethane	ppbv	10.0	9.60	96	70 - 130	7949
1,3-Butadiene	ppbv	10.0	9.50	95	70 - 130	7949

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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1,3-Butadiene	ppbv	10.0	9.10	91	70 - 130	7949
1,1-Dichloroethane	ppbv	10.0	8.30	83	70 - 130	7949
1,1-Dichloroethane	ppbv	10.0	8.20	82	70 - 130	7949
Trichlorotrifluoroethane	ppbv	10.0	10.0	100	70 - 130	7949
Trichlorotrifluoroethane	ppbv	10.0	9.90	99	70 - 130	7949
t-1,2-Dichloroethene	ppbv	10.0	9.60	96	70 - 130	7949
t-1,2-Dichloroethene	ppbv	10.0	9.30	93	70 - 130	7949
2-Hexanone	ppbv	10.0	18.4	184 #	70 - 130	7949
2-Hexanone	ppbv	10.0	17.8	178 #	70 - 130	7949
1,2-Dichloropropane	ppbv	10.0	8.80	88	70 - 130	7949
1,2-Dichloropropane	ppbv	10.0	8.60	86	70 - 130	7949
m,p-Xylene	ppbv	10.0	11.2	112	70 - 130	7949
m,p-Xylene	ppbv	10.0	6.70	67 #	70 - 130	7949
1,1,2-Trichloroethane	ppbv	10.0	10.1	101	70 - 130	7949
1,1,2-Trichloroethane	ppbv	10.0	10.0	100	70 - 130	7949
o-Xylene	ppbv	10.0	9.70	97	70 - 130	7949
o-Xylene	ppbv	10.0	9.40	94	70 - 130	7949
1,2-Dibromoethane	ppbv	10.0	9.90	99	70 - 130	7949
1,2-Dibromoethane	ppbv	10.0	10.1	101	70 - 130	7949
Chlorobenzene	ppbv	10.0	9.40	94	70 - 130	7949
Chlorobenzene	ppbv	10.0	9.60	96	70 - 130	7949
Hexachloro-1,3-butadiene	ppbv	10.0	21.5	215 #	70 - 130	7949
Hexachloro-1,3-butadiene	ppbv	10.0	22.1	221 #	70 - 130	7949
c-1,3-Dichloropropene	ppbv	10.0	9.60	96	70 - 130	7949
c-1,3-Dichloropropene	ppbv	10.0	9.60	96	70 - 130	7949
t-1,3-Dichloropropene	ppbv	10.0	10.0	100	70 - 130	7949
t-1,3-Dichloropropene	ppbv	10.0	10.0	100	70 - 130	7949
Styrene	ppbv	10.0	10.8	108	70 - 130	7949
Styrene	ppbv	10.0	10.8	108	70 - 130	7949
1,1,2,2-Tetrachloroethane	ppbv	10.0	11.7	117	70 - 130	7949
1,1,2,2-Tetrachloroethane	ppbv	10.0	11.0	110	70 - 130	7949
1,3,5-Trimethylbenzene	ppbv	10.0	11.8	118	70 - 130	7949
1,3,5-Trimethylbenzene	ppbv	10.0	11.4	114	70 - 130	7949
1,2,4-Trimethylbenzene	ppbv	10.0	12.6	126	70 - 130	7949
1,2,4-Trimethylbenzene	ppbv	10.0	12.1	121	70 - 130	7949
1,2-Dichlorobenzene	ppbv	10.0	13.8	138 #	70 - 130	7949

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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1,2-Dichlorobenzene	ppbv	10.0	13.8	138 #	70 - 130	7949
1,3-Dichlorobenzene	ppbv	10.0	12.2	122	70 - 130	7949
1,3-Dichlorobenzene	ppbv	10.0	12.1	121	70 - 130	7949
1,4-Dichlorobenzene	ppbv	10.0	12.3	123	70 - 130	7949
1,4-Dichlorobenzene	ppbv	10.0	12.2	122	70 - 130	7949
1,2,4-Trichlorobenzene	ppbv	10.0	24.2	242 #	70 - 130	7949
1,2,4-Trichlorobenzene	ppbv	10.0	24.7	247 #	70 - 130	7949
Methylisobutyl ketone	ppbv	10.0	15.4	154 #	70 - 130	7949
Methylisobutyl ketone	ppbv	10.0	14.7	147 #	70 - 130	7949
Heptane	ppbv	10.0	9.00	90	70 - 130	7949
Heptane	ppbv	10.0	8.80	88	70 - 130	7949
Hexane	ppbv	10.0	9.00	90	70 - 130	7949
Hexane	ppbv	10.0	8.70	87	70 - 130	7949
Methylene Chloride	ppbv	10.0	8.00	80	70 - 130	7949
Methylene Chloride	ppbv	10.0	8.00	80	70 - 130	7949
Tetrahydrofuran	ppbv	10.0	10.9	109	70 - 130	7949
Tetrahydrofuran	ppbv	10.0	11.4	114	70 - 130	7949
Toluene	ppbv	10.0	9.50	95	70 - 130	7949
Toluene	ppbv	10.0	9.40	94	70 - 130	7949
Benzene	ppbv	10.0	8.40	84	70 - 130	7949
Benzene	ppbv	10.0	8.50	85	70 - 130	7949
Chloroform	ppbv	10.0	8.70	87	70 - 130	7949
Chloroform	ppbv	10.0	8.60	86	70 - 130	7949
Carbon tetrachloride	ppbv	10.0	10.0	100	70 - 130	7949
Carbon tetrachloride	ppbv	10.0	9.90	99	70 - 130	7949
Tetrachloroethene	ppbv	10.0	10.2	102	70 - 130	7949
Tetrachloroethene	ppbv	10.0	10.8	108	70 - 130	7949
Trichloroethene	ppbv	10.0	9.90	99	70 - 130	7949
Trichloroethene	ppbv	10.0	9.90	99	70 - 130	7949
Vinyl Acetate	ppbv	10.0	9.30	93	70 - 130	7949
Vinyl Acetate	ppbv	10.0	9.40	94	70 - 130	7949
Ethylbenzene	ppbv	10.0	9.60	96	70 - 130	7949
Ethylbenzene	ppbv	10.0	9.40	94	70 - 130	7949
Methyl-t-butyl ether	ppbv	10.0	9.90	99	70 - 130	7949
Methyl-t-butyl ether	ppbv	10.0	9.90	99	70 - 130	7949
Ethyl acetate	ppbv	10.0	10.3	103	70 - 130	7949

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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Ethyl acetate	ppbv	10.0	10.3	103	70 - 130	7949
1,1,1-Trichloroethane	ppbv	10.0	8.60	86	70 - 130	7949
1,1,1-Trichloroethane	ppbv	10.0	8.60	86	70 - 130	7949
Isopropyl Alcohol	ppbv	10.0	12.0	120	70 - 130	7949
Isopropyl Alcohol	ppbv	10.0	11.7	117	70 - 130	7949
1,2-Dichloroethane	ppbv	10.0	8.40	84	70 - 130	7949
1,2-Dichloroethane	ppbv	10.0	8.30	83	70 - 130	7949
c-1,2-Dichloroethene	ppbv	10.0	8.50	85	70 - 130	7949
c-1,2-Dichloroethene	ppbv	10.0	8.40	84	70 - 130	7949
Acetone	ppbv	10.0	7.80	78	70 - 130	7949
Acetone	ppbv	10.0	8.00	80	70 - 130	7949
1,1-Dichloroethene	ppbv	10.0	10.0	100	70 - 130	7949
1,1-Dichloroethene	ppbv	10.0	10.0	100	70 - 130	7949
2-Butanone	ppbv	10.0	11.5	115	70 - 130	7949
2-Butanone	ppbv	10.0	11.6	116	70 - 130	7949
4-Ethyltoluene	ppbv	10.0	11.6	116	70 - 130	7949
4-Ethyltoluene	ppbv	10.0	11.3	113	70 - 130	7949

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
MISC PARAMETERS					
Bromodichloromethane	< 0.50	ppbv	7949	6/11/03	23:30
Bromodichloromethane	< 0.50	ppbv	7949	6/13/03	1:06
Bromoform	< 0.50	ppbv	7949	6/11/03	23:30
Bromoform	< 0.50	ppbv	7949	6/13/03	1:06
Dibromochloromethane	< 0.50	ppbv	7949	6/11/03	23:30
Dibromochloromethane	< 0.50	ppbv	7949	6/13/03	1:06
Dichlorodifluoromethane	< 0.50	ppbv	7949	6/11/03	23:30
Dichlorodifluoromethane	< 0.50	ppbv	7949	6/13/03	1:06
Trichlorofluoromethane	< 0.50	ppbv	7949	6/11/03	23:30
Trichlorofluoromethane	< 0.50	ppbv	7949	6/13/03	1:06
Cyclohexane	< 0.50	ppbv	7949	6/11/03	23:30
Cyclohexane	< 0.50	ppbv	7949	6/13/03	1:06

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number:
Project Name:
Page: 5
Laboratory Receipt Date: 5/21/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Carbon Disulfide	< 0.50	ppbv	7949	6/11/03	23:30
Carbon Disulfide	< 0.50	ppbv	7949	6/13/03	1:06
Vinyl Chloride	< 1.00	ppbv	7949	6/11/03	23:30
Vinyl Chloride	< 1.00	ppbv	7949	6/13/03	1:06
1,4-Dioxane	< 1.00	ppbv	7949	6/11/03	23:30
1,4-Dioxane	< 1.00	ppbv	7949	6/13/03	1:06
Chloromethane	< 0.50	ppbv	7949	6/11/03	23:30
Chloromethane	< 0.50	ppbv	7949	6/13/03	1:06
Propylene	< 0.50	ppbv	7949	6/11/03	23:30
Propylene	< 0.50	ppbv	7949	6/13/03	1:06
Bromomethane	< 0.50	ppbv	7949	6/11/03	23:30
Bromomethane	< 0.50	ppbv	7949	6/13/03	1:06
Dichlorotetrafluoromethane	< 1.00	ppbv	7949	6/11/03	23:30
Dichlorotetrafluoromethane	< 1.00	ppbv	7949	6/13/03	1:06
Chloroethane	< 0.50	ppbv	7949	6/11/03	23:30
Chloroethane	< 0.50	ppbv	7949	6/13/03	1:06
1,3-Butadiene	< 0.50	ppbv	7949	6/11/03	23:30
1,3-Butadiene	< 0.50	ppbv	7949	6/13/03	1:06
1,1-Dichloroethane	< 0.50	ppbv	7949	6/11/03	23:30
1,1-Dichloroethane	< 0.50	ppbv	7949	6/13/03	1:06
Trichlorotrifluoroethane	< 0.50	ppbv	7949	6/11/03	23:30
Trichlorotrifluoroethane	< 0.50	ppbv	7949	6/13/03	1:06
t-1,2-Dichloroethene	< 0.50	ppbv	7949	6/11/03	23:30
t-1,2-Dichloroethene	< 0.50	ppbv	7949	6/13/03	1:06
2-Hexanone	< 1.00	ppbv	7949	6/11/03	23:30
2-Hexanone	< 1.00	ppbv	7949	6/13/03	1:06
1,2-Dichloropropane	< 0.50	ppbv	7949	6/11/03	23:30
1,2-Dichloropropane	< 0.50	ppbv	7949	6/13/03	1:06
m,p-Xylene	< 0.50	ppbv	7949	6/11/03	23:30
m,p-Xylene	< 0.50	ppbv	7949	6/13/03	1:06
1,1,2-Trichloroethane	< 0.50	ppbv	7949	6/11/03	23:30

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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Project Name:
Page: 6
Laboratory Receipt Date: 5/21/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,1,2-Trichloroethane	< 0.50	ppbv	7949	6/13/03	1:06
o-Xylene	< 0.50	ppbv	7949	6/11/03	23:30
o-Xylene	< 0.50	ppbv	7949	6/13/03	1:06
1,2-Dibromoethane	< 0.50	ppbv	7949	6/11/03	23:30
1,2-Dibromoethane	< 0.50	ppbv	7949	6/13/03	1:06
Chlorobenzene	< 0.50	ppbv	7949	6/11/03	23:30
Chlorobenzene	< 0.50	ppbv	7949	6/13/03	1:06
Hexachloro-1,3-butadiene	< 0.50	ppbv	7949	6/11/03	23:30
Hexachloro-1,3-butadiene	< 0.50	ppbv	7949	6/13/03	1:06
c-1,3-Dichloropropene	< 0.50	ppbv	7949	6/11/03	23:30
c-1,3-Dichloropropene	< 0.50	ppbv	7949	6/13/03	1:06
t-1,3-Dichloropropene	< 0.50	ppbv	7949	6/11/03	23:30
t-1,3-Dichloropropene	< 0.50	ppbv	7949	6/13/03	1:06
Styrene	< 0.50	ppbv	7949	6/11/03	23:30
Styrene	< 0.50	ppbv	7949	6/13/03	1:06
1,1,2,2-Tetrachloroethane	< 0.50	ppbv	7949	6/11/03	23:30
1,1,2,2-Tetrachloroethane	< 0.50	ppbv	7949	6/13/03	1:06
1,3,5-Trimethylbenzene	< 0.50	ppbv	7949	6/11/03	23:30
1,3,5-Trimethylbenzene	< 0.50	ppbv	7949	6/13/03	1:06
1,2,4-Trimethylbenzene	< 0.50	ppbv	7949	6/11/03	23:30
1,2,4-Trimethylbenzene	< 0.50	ppbv	7949	6/13/03	1:06
1,2-Dichlorobenzene	< 0.50	ppbv	7949	6/11/03	23:30
1,2-Dichlorobenzene	< 0.50	ppbv	7949	6/13/03	1:06
1,3-Dichlorobenzene	< 0.50	ppbv	7949	6/11/03	23:30
1,3-Dichlorobenzene	< 0.50	ppbv	7949	6/13/03	1:06
1,4-Dichlorobenzene	< 0.50	ppbv	7949	6/11/03	23:30
1,4-Dichlorobenzene	< 0.50	ppbv	7949	6/13/03	1:06
1,2,4-Trichlorobenzene	< 0.50	ppbv	7949	6/11/03	23:30
1,2,4-Trichlorobenzene	< 0.50	ppbv	7949	6/13/03	1:06
Methylisobutyl ketone	< 1.00	ppbv	7949	6/11/03	23:30
Methylisobutyl ketone	< 1.00	ppbv	7949	6/13/03	1:06

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number:
Project Name:
Page: 7
Laboratory Receipt Date: 5/21/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Heptane	< 0.500	ppbv	7949	6/11/03	23:30
Heptane	< 0.500	ppbv	7949	6/13/03	1:06
Hexane	< 0.500	ppbv	7949	6/11/03	23:30
Hexane	< 0.500	ppbv	7949	6/13/03	1:06
Methylene Chloride	< 0.50	ppbv	7949	6/11/03	23:30
Methylene Chloride	< 0.50	ppbv	7949	6/13/03	1:06
Tetrahydrofuran	< 0.500	ppbv	7949	6/11/03	23:30
Tetrahydrofuran	< 0.500	ppbv	7949	6/13/03	1:06
Toluene	< 0.50	ppbv	7949	6/11/03	23:30
Toluene	< 0.50	ppbv	7949	6/13/03	1:06
Benzene	< 0.50	ppbv	7949	6/11/03	23:30
Benzene	< 0.50	ppbv	7949	6/13/03	1:06
Chloroform	< 0.50	ppbv	7949	6/11/03	23:30
Chloroform	< 0.50	ppbv	7949	6/13/03	1:06
Carbon tetrachloride	< 0.50	ppbv	7949	6/11/03	23:30
Carbon tetrachloride	< 0.50	ppbv	7949	6/13/03	1:06
Tetrachloroethene	< 0.50	ppbv	7949	6/11/03	23:30
Tetrachloroethene	< 0.50	ppbv	7949	6/13/03	1:06
Trichloroethene	< 0.50	ppbv	7949	6/11/03	23:30
Trichloroethene	< 0.50	ppbv	7949	6/13/03	1:06
Vinyl Acetate	< 1.00	ppbv	7949	6/11/03	23:30
Vinyl Acetate	< 1.00	ppbv	7949	6/13/03	1:06
Ethylbenzene	< 0.50	ppbv	7949	6/11/03	23:30
Ethylbenzene	< 0.50	ppbv	7949	6/13/03	1:06
Methyl-t-butyl ether	< 0.500	ppbv	7949	6/11/03	23:30
Methyl-t-butyl ether	< 0.500	ppbv	7949	6/13/03	1:06
Ethyl acetate	< 0.500	ppbv	7949	6/11/03	23:30
Ethyl acetate	< 0.500	ppbv	7949	6/13/03	1:06
1,1,1-Trichloroethane	< 0.50	ppbv	7949	6/11/03	23:30
1,1,1-Trichloroethane	< 0.50	ppbv	7949	6/13/03	1:06
Isopropyl Alcohol	< 1.00	ppbv	7949	6/11/03	23:30

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number:
Project Name:
Page: 8
Laboratory Receipt Date: 5/21/03

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Isopropyl Alcohol	< 1.00	ppbv	7949	6/13/03	1:06
1,2-Dichloroethane	< 0.50	ppbv	7949	6/11/03	23:30
1,2-Dichloroethane	< 0.50	ppbv	7949	6/13/03	1:06
c-1,2-Dichloroethene	< 0.50	ppbv	7949	6/11/03	23:30
c-1,2-Dichloroethene	< 0.50	ppbv	7949	6/13/03	1:06
Acetone	< 1.00	ppbv	7949	6/11/03	23:30
Acetone	< 1.00	ppbv	7949	6/13/03	1:06
1,1-Dichloroethene	< 0.50	ppbv	7949	6/11/03	23:30
1,1-Dichloroethene	< 0.50	ppbv	7949	6/13/03	1:06
2-Butanone	< 0.50	ppbv	7949	6/11/03	23:30
2-Butanone	< 0.50	ppbv	7949	6/13/03	1:06
4-Ethyltoluene	< 0.50	ppbv	7949	6/11/03	23:30
4-Ethyltoluene	< 0.50	ppbv	7949	6/13/03	1:06

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 332692

APPENDIX B

June 2003 Laboratory Analytical Reports for Groundwater Samples

TEST AMERICA ANALYTICAL TESTING CORP.-NASHVILLE

COOLER RECEIPT FORM

BC# 335067

Client: Terraine

Cooler Received On: 6/10/03 And Opened On: 6/10/03 By: Mark Beasley

M. Beasley
(Signature)

1. Temperature of Cooler when opened 2.0 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES....NO....NA
   a. If yes, how many, what kind and where: 2 Side
3. Were custody seals on containers and intact?.....NO...YES...NA
4. Were the seals intact, signed, and dated correctly?.....YES....NO...NA
5. Were custody papers inside cooler?.....YES....NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....YES....NO...NA
7. Did you sign the custody papers in the appropriate place?.....YES....NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....YES...NO...NA
10. Did all bottles arrive in good condition(unbroken)?.....YES...NO...NA
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES...NO...NA
12. Did all bottle labels and tags agree with custody papers?.....YES...NO...NA
13. Were correct bottles used for the analysis requested?.....YES...NO...NA
14. a. Were VOA vials received?.....YES...NO...NA
    b. Was there any observable head space present in any VOA vial?.....NO...YES...NA
15. Was sufficient amount of sample sent in each bottle?.....YES...NO...NA
16. Were correct preservatives used?.....YES...NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?.....NO...YES...NA
18. See attached for resolution of non-conformance: VEW-7 + EB → 1 liter BJ

UPS Velocity Airborne Route Off-street Fedex Misc.

335067

TestAmerica, Inc.

2960 Foster Creighton Dr.
Nashville, TN 37204
Tel. No. 800-765-0980
Fax No. 615-726-0954

Terraine, Inc. - Chain Of Custody Record

ACCOUNT INFORMATION

TAI ACCOUNT NO: 9463
NAME OF PM TO BILL: James L. Young
TAI QUOTE NO: 09230210902
PURCHASE ORDER NO: 04-40001/5.4.2

TERRAINE PROJECT NO.: 0 4 - 4 0 0 0 1
TERRAINE TASK NO.: [redacted] 5.4.2

DATE: 6/9/03
PAGE: 1 of 1

CONSULTANT COMPANY: TERRAINE, INC.
BILLING ADDRESS: 7380 Phillips Highway, Suite 106
CITY: Jacksonville, Florida 32256
TELEPHONE: 904-296-6001
FAX: 305-513-4902 (main)
E-MAIL: jly@terraine.com

QC DELIVERABLES
- [X] STANDARD
- [ ] LEVEL 2
- [ ] LEVEL 3
- [ ] LEVEL 4

SITE DESCRIPTION: Day Tank 1
SITE ADDRESS (STREET, CITY, STATE): NAS Cecil Field, Jacksonville, Florida
PROJECT CONTACT (Report to): James L. Young
PROJECT CONTACT CELL PHONE: 305-490-7702
PROJECT CONTACT E-MAIL: jly@terraine.com
FACILITY ID NO:
CONTRACT NO / CONTRACT TASK ORDER NO (for Federal Projects): N62467-02-G-0352 / CTO#0001
SAMPLER NAME(S) (Print): K. Baer/D. Romero
SAMPLER NAME(S) (Signature):
LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS): [X] STD [ ] 10 DAYS [ ] 5 DAYS [ ] 3 DAYS [ ] <24 HRS
ELECTRONIC DELIVERABLES: [X] FAX RESULTS [X] E-MAIL PDF [X] ELEC. DATA

TEMPERATURE ON RECEIPT (°C):

SPECIAL INSTRUCTIONS OR NOTES :

REQUESTED ANALYSIS (if more than one method is listed, circle one)

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX (AIR, GW, SOIL, SLUDGE, WW, ETC)	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH - Purgeable (8015) GRO	TPH - Extractable (8015) DRO	BTEX / MTBE (8021B, 602, 8500/624)	BTEX / MTBE + Oxygenates (8260B)	VOCs (8260B)	VOCs Aromatic (8021B)	VOCs Halogenated (8021B)	PAH (8270)	Metals (Specify)	TRPH (418.1, FL PRO)	Vapor VOCs BTEX, MTBE/GRO (EPA-18, TO-18)	Vapor VOCs Full List (EPA-18, TO-18)	Pre burn (8021, Halogenated, FL-Pro, As, Cd, Cr, Pb)	8 RCRA Metals	4 RCRA Metals (As, Cd, Cr, Pb)						Container PID Readings or Laboratory Notes/Remarks
	CEF-293-22	6/7/03	9:09	GW	3			2		5					X			X													
14	CEF-293-9	6/6/03	18:06	GW	3			2		5					X			X													89465
	VEW-7	6/7/03	11:23	GW	3			2		5					X			X													66
16	VEW-2	6/7/03	12:37	GW	3			2		5					X			X													67
	VEW-3	6/6/03	17:13	GW	3			2		5					X			X													68
18	VEW-4	6/7/03	10:05	GW	3			2		5					X			X													69
	VEW-5	6/6/03	19:11	GW	3			2		5					X			X													70
20	Trip Blank			GW	3					3					X																71
	EB-DAYTANK1	6/6/03	19:25	GW	3			2		5					X			X													72
																															89473

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	M. Ly	6/10/03	8:00

05/1/01 Revision

TestAmerica
ANALYTICAL TESTING CORPORATION

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6/18/03

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: NAS CECIL FIELD-DAY TANK
Project Number: 04-40001.
Laboratory Project Number: 335067.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.

Sample Identification	Lab Number	Collection Date
CEF-293-22	03-A89465	6/ 7/03
CEF-293-9	03-A89466	6/ 6/03
VEW-7	03-A89467	6/ 7/03
VEW-2	03-A89468	6/ 7/03
VEW-3	03-A89469	6/ 6/03
VEW-4	03-A89470	6/ 7/03
VEW-5	03-A89471	6/ 6/03
Trip Blank	03-A89472	
EB-DAYTANK1	03-A89473	6/ 6/03

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Sample Identification	Lab Number	Collection Date

These results relate only to the items tested.
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Report Approved By: Roxanne L Connor Report Date: 6/18/03

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Roxanne L. Connor, Technical Services
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: E87358

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: 04-40001
Project Name: NAS CECIL FIELD-DAY TANK
Sampler: KB/DR

Lab Number: 03-A89465
Sample ID: CEF-293-22
Sample Type: Water
Site ID:

Date Collected: 6/ 7/03
Time Collected: 9:09
Date Received: 6/10/03
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/17/03	23:46	D. Harris	8270C-SIM	8304
Acenaphthylene	ND	ug/L	0.10	1.0	6/17/03	23:46	D. Harris	8270C-SIM	8304
Anthracene	ND	ug/L	0.10	1.0	6/17/03	23:46	D. Harris	8270C-SIM	8304
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/17/03	23:46	D. Harris	8270C-SIM	8304
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/17/03	23:46	D. Harris	8270C-SIM	8304
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/17/03	23:46	D. Harris	8270C-SIM	8304
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/17/03	23:46	D. Harris	8270C-SIM	8304
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/17/03	23:46	D. Harris	8270C-SIM	8304
Chrysene	ND	ug/L	0.10	1.0	6/17/03	23:46	D. Harris	8270C-SIM	8304
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/17/03	23:46	D. Harris	8270C-SIM	8304
Fluoranthene	ND	ug/L	0.10	1.0	6/17/03	23:46	D. Harris	8270C-SIM	8304
Fluorene	0.13	ug/L	0.10	1.0	6/17/03	23:46	D. Harris	8270C-SIM	8304
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/17/03	23:46	D. Harris	8270C-SIM	8304
2-Methylnaphthalene	3.76	ug/L	0.10	1.0	6/17/03	23:46	D. Harris	8270C-SIM	8304
Naphthalene	0.64	ug/L	0.10	1.0	6/17/03	23:46	D. Harris	8270C-SIM	8304
Phenanthrene	0.21	ug/L	0.10	1.0	6/17/03	23:46	D. Harris	8270C-SIM	8304
Pyrene	0.11	ug/L	0.10	1.0	6/17/03	23:46	D. Harris	8270C-SIM	8304
1-Methylnaphthalene	4.97	ug/L	0.10	1.0	6/17/03	23:46	D. Harris	8270C-SIM	8304
VOLATILE ORGANICS									
Benzene	ND	ug/L	1.0	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Toluene	ND	ug/L	1.0	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Ethylbenzene	ND	ug/L	1.0	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Xylenes (Total)	ND	ug/L	1.0	1.0	6/11/03	5:25	S. Udeze	8260B	5960
1,2-Dibromoethane	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Naphthalene	ND	ug/L	5.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89465
Sample ID: CEF-293-22
Project: 04-40001

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Bromobenzene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Bromochloromethane	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Bromoform	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Bromomethane	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
2-Butanone	ND	ug/L	25.0	1.0	6/11/03	5:25	S. Udeze	8260B	5960
n-Butylbenzene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
sec-Butylbenzene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
t-Butylbenzene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Carbon disulfide	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Carbon tetrachloride	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Chlorobenzene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Chloroethane	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Chloroform	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Chloromethane	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
2-Chlorotoluene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
4-Chlorotoluene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Dibromochloromethane	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Dibromomethane	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
1,1-Dichloroethane	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
1,2-Dichloroethane	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
1,1-Dichloroethene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
1,2-Dichloropropane	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
1,3-Dichloropropane	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
2,2-Dichloropropane	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
1,1-Dichloropropene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Hexachlorobutadiene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89465
Sample ID: CEF-293-22
Project: 04-40001

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Isopropylbenzene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
4-Isopropyltoluene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Methylene chloride	ND	ug/L	2.50	1.0	6/11/03	5:25	S. Udeze	8260B	5960
n-Propylbenzene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Styrene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Tetrachloroethene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Trichloroethene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	6/11/03	5:25	S. Udeze	8260B	5960
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Vinyl chloride	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Bromodichloromethane	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960
Trichlorofluoromethane	ND	ug/L	1.00	1.0	6/11/03	5:25	S. Udeze	8260B	5960

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	950. ml	1.0 ml	6/13/03		M. Cauthen	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89465
Sample ID: CEF-293-22
Project: 04-40001

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	94.	70. - 133.
VOA Surr Toluene-d8	93.	76. - 123.
VOA Surr, 4-BFB	102.	71. - 132.
VOA Surr, DBFM	98.	74. - 128.
BNA Surr-Nitrobenzene-d5	93.	34. - 107.
BNA Surr-2-Fluorobiphenyl	104. #	40. - 96.
BNA Surr-Terphenyl-d14	129. #	26. - 106.

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: 04-40001
Project Name: NAS CECIL FIELD-DAY TANK
Sampler: KB/DR

Lab Number: 03-A89466
Sample ID: CEF-293-9
Sample Type: Water
Site ID:

Date Collected: 6/ 6/03
Time Collected: 18:06
Date Received: 6/10/03
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/18/03	0:20	D. Harris	8270C-SIM	8304
Acenaphthylene	ND	ug/L	0.10	1.0	6/18/03	0:20	D. Harris	8270C-SIM	8304
Anthracene	ND	ug/L	0.10	1.0	6/18/03	0:20	D. Harris	8270C-SIM	8304
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/18/03	0:20	D. Harris	8270C-SIM	8304
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/18/03	0:20	D. Harris	8270C-SIM	8304
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/18/03	0:20	D. Harris	8270C-SIM	8304
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/18/03	0:20	D. Harris	8270C-SIM	8304
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/18/03	0:20	D. Harris	8270C-SIM	8304
Chrysene	ND	ug/L	0.10	1.0	6/18/03	0:20	D. Harris	8270C-SIM	8304
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/18/03	0:20	D. Harris	8270C-SIM	8304
Fluoranthene	ND	ug/L	0.10	1.0	6/18/03	0:20	D. Harris	8270C-SIM	8304
Fluorene	ND	ug/L	0.10	1.0	6/18/03	0:20	D. Harris	8270C-SIM	8304
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/18/03	0:20	D. Harris	8270C-SIM	8304
2-Methylnaphthalene	ND	ug/L	0.10	1.0	6/18/03	0:20	D. Harris	8270C-SIM	8304
Naphthalene	3.90	ug/L	0.10	1.0	6/18/03	0:20	D. Harris	8270C-SIM	8304
Phenanthrene	ND	ug/L	0.10	1.0	6/18/03	0:20	D. Harris	8270C-SIM	8304
Pyrene	ND	ug/L	0.10	1.0	6/18/03	0:20	D. Harris	8270C-SIM	8304
1-Methylnaphthalene	ND	ug/L	0.10	1.0	6/18/03	0:20	D. Harris	8270C-SIM	8304
VOLATILE ORGANICS									
Benzene	3.8	ug/L	1.0	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Toluene	ND	ug/L	1.0	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Ethylbenzene	4.3	ug/L	1.0	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Xylenes (Total)	20.2	ug/L	1.0	1.0	6/11/03	5:55	S. Udeze	8260B	5960
1,2-Dibromoethane	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Naphthalene	ND	ug/L	5.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89466
Sample ID: CEF-293-9
Project: 04-40001

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Bromobenzene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Bromochloromethane	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Bromoform	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Bromomethane	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
2-Butanone	ND	ug/L	25.0	1.0	6/11/03	5:55	S. Udeze	8260B	5960
n-Butylbenzene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
sec-Butylbenzene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
t-Butylbenzene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Carbon disulfide	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Carbon tetrachloride	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Chlorobenzene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Chloroethane	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Chloroform	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Chloromethane	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
2-Chlorotoluene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
4-Chlorotoluene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Dibromochloromethane	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Dibromomethane	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
1,1-Dichloroethane	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
1,2-Dichloroethane	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
1,1-Dichloroethene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
1,2-Dichloropropane	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
1,3-Dichloropropane	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
2,2-Dichloropropane	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
1,1-Dichloropropene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Hexachlorobutadiene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89466
Sample ID: CEF-293-9
Project: 04-40001

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Isopropylbenzene	5.80	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
4-Isopropyltoluene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Methylene chloride	ND	ug/L	2.50	1.0	6/11/03	5:55	S. Udeze	8260B	5960
n-Propylbenzene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Styrene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Tetrachloroethene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Trichloroethene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	6/11/03	5:55	S. Udeze	8260B	5960
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Vinyl chloride	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Bromodichloromethane	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960
Trichlorofluoromethane	ND	ug/L	1.00	1.0	6/11/03	5:55	S. Udeze	8260B	5960

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	950. ml	1.0 ml	6/13/03		M. Cauthen	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89466
Sample ID: CEF-293-9
Project: 04-40001

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	95.	70. - 133.
VOA Surr Toluene-d8	91.	76. - 123.
VOA Surr, 4-BFB	105.	71. - 132.
VOA Surr, DBFM	97.	74. - 128.
BNA Surr-Nitrobenzene-d5	80.	34. - 107.
BNA Surr-2-Fluorobiphenyl	94.	40. - 96.
BNA Surr-Terphenyl-d14	130. #	26. - 106.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: 04-40001
Project Name: NAS CECIL FIELD-DAY TANK
Sampler: KB/DR

Lab Number: 03-A89467
Sample ID: VEW-7
Sample Type: Water
Site ID:

Date Collected: 6/ 7/03
Time Collected: 11:22
Date Received: 6/10/03
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/18/03	0:53	D. Harris	8270C-SIM	8304
Acenaphthylene	ND	ug/L	0.10	1.0	6/18/03	0:53	D. Harris	8270C-SIM	8304
Anthracene	ND	ug/L	0.10	1.0	6/18/03	0:53	D. Harris	8270C-SIM	8304
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/18/03	0:53	D. Harris	8270C-SIM	8304
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/18/03	0:53	D. Harris	8270C-SIM	8304
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/18/03	0:53	D. Harris	8270C-SIM	8304
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/18/03	0:53	D. Harris	8270C-SIM	8304
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/18/03	0:53	D. Harris	8270C-SIM	8304
Chrysene	ND	ug/L	0.10	1.0	6/18/03	0:53	D. Harris	8270C-SIM	8304
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/18/03	0:53	D. Harris	8270C-SIM	8304
Fluoranthene	ND	ug/L	0.10	1.0	6/18/03	0:53	D. Harris	8270C-SIM	8304
Fluorene	ND	ug/L	0.10	1.0	6/18/03	0:53	D. Harris	8270C-SIM	8304
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/18/03	0:53	D. Harris	8270C-SIM	8304
2-Methylnaphthalene	ND	ug/L	0.10	1.0	6/18/03	0:53	D. Harris	8270C-SIM	8304
Naphthalene	ND	ug/L	0.10	1.0	6/18/03	0:53	D. Harris	8270C-SIM	8304
Phenanthrene	ND	ug/L	0.10	1.0	6/18/03	0:53	D. Harris	8270C-SIM	8304
Pyrene	ND	ug/L	0.10	1.0	6/18/03	0:53	D. Harris	8270C-SIM	8304
1-Methylnaphthalene	ND	ug/L	0.10	1.0	6/18/03	0:53	D. Harris	8270C-SIM	8304
VOLATILE ORGANICS									
Benzene	ND	ug/L	1.0	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Toluene	ND	ug/L	1.0	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Ethylbenzene	ND	ug/L	1.0	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Xylenes (Total)	ND	ug/L	1.0	1.0	6/11/03	6:24	S. Udeze	8260B	5960
1,2-Dibromoethane	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Naphthalene	ND	ug/L	5.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89467
Sample ID: VEW-7
Project: 04-40001

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Bromobenzene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Bromochloromethane	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Bromoform	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Bromomethane	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
2-Butanone	ND	ug/L	25.0	1.0	6/11/03	6:24	S. Udeze	8260B	5960
n-Butylbenzene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
sec-Butylbenzene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
t-Butylbenzene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Carbon disulfide	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Carbon tetrachloride	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Chlorobenzene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Chloroethane	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Chloroform	1.60	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Chloromethane	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
2-Chlorotoluene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
4-Chlorotoluene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Dibromochloromethane	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Dibromomethane	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
1,1-Dichloroethane	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
1,2-Dichloroethane	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
1,1-Dichloroethene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
1,2-Dichloropropane	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
1,3-Dichloropropane	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
2,2-Dichloropropane	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
1,1-Dichloropropene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Hexachlorobutadiene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89467
Sample ID: VEW-7
Project: 04-40001

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Isopropylbenzene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
4-Isopropyltoluene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Methylene chloride	ND	ug/L	2.50	1.0	6/11/03	6:24	S. Udeze	8260B	5960
n-Propylbenzene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Styrene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Tetrachloroethene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Trichloroethene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	6/11/03	6:24	S. Udeze	8260B	5960
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Vinyl chloride	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Bromodichloromethane	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960
Trichlorofluoromethane	ND	ug/L	1.00	1.0	6/11/03	6:24	S. Udeze	8260B	5960

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	970. ml	1.0 ml	6/13/03		M. Cauthen	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89467
Sample ID: VEW-7
Project: 04-40001

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	94.	70. - 133.
VOA Surr Toluene-d8	91.	76. - 123.
VOA Surr, 4-BFB	106.	71. - 132.
VOA Surr, DBFM	99.	74. - 128.
BNA Surr-Nitrobenzene-d5	88.	34. - 107.
BNA Surr-2-Fluorobiphenyl	102. #	40. - 96.
BNA Surr-Terphenyl-d14	128. #	26. - 106.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: 04-40001
Project Name: NAS CECIL FIELD-DAY TANK
Sampler: KB/DR

Lab Number: 03-A89468
Sample ID: VEW-2
Sample Type: Water
Site ID:

Date Collected: 6/ 7/03
Time Collected: 12:22
Date Received: 6/10/03
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/18/03	1:27	D. Harris	8270C-SIM	8304
Acenaphthylene	ND	ug/L	0.10	1.0	6/18/03	1:27	D. Harris	8270C-SIM	8304
Anthracene	ND	ug/L	0.10	1.0	6/18/03	1:27	D. Harris	8270C-SIM	8304
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/18/03	1:27	D. Harris	8270C-SIM	8304
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/18/03	1:27	D. Harris	8270C-SIM	8304
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/18/03	1:27	D. Harris	8270C-SIM	8304
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/18/03	1:27	D. Harris	8270C-SIM	8304
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/18/03	1:27	D. Harris	8270C-SIM	8304
Chrysene	ND	ug/L	0.10	1.0	6/18/03	1:27	D. Harris	8270C-SIM	8304
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/18/03	1:27	D. Harris	8270C-SIM	8304
Fluoranthene	ND	ug/L	0.10	1.0	6/18/03	1:27	D. Harris	8270C-SIM	8304
Fluorene	ND	ug/L	0.10	1.0	6/18/03	1:27	D. Harris	8270C-SIM	8304
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/18/03	1:27	D. Harris	8270C-SIM	8304
2-Methylnaphthalene	0.42	ug/L	0.10	1.0	6/18/03	1:27	D. Harris	8270C-SIM	8304
Naphthalene	ND	ug/L	0.10	1.0	6/18/03	1:27	D. Harris	8270C-SIM	8304
Phenanthrene	ND	ug/L	0.10	1.0	6/18/03	1:27	D. Harris	8270C-SIM	8304
Pyrene	0.16	ug/L	0.10	1.0	6/18/03	1:27	D. Harris	8270C-SIM	8304
1-Methylnaphthalene	1.06	ug/L	0.10	1.0	6/18/03	1:27	D. Harris	8270C-SIM	8304
VOLATILE ORGANICS									
Benzene	ND	ug/L	1.0	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Toluene	ND	ug/L	1.0	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Ethylbenzene	ND	ug/L	1.0	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Xylenes (Total)	ND	ug/L	1.0	1.0	6/11/03	23:54	S. Udeze	8260B	6764
1,2-Dibromoethane	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Naphthalene	ND	ug/L	5.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89468
Sample ID: VEW-2
Project: 04-40001

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Bromobenzene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Bromochloromethane	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Bromoform	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Bromomethane	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
2-Butanone	ND	ug/L	25.0	1.0	6/11/03	23:54	S. Udeze	8260B	6764
n-Butylbenzene	3.20	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
sec-Butylbenzene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
t-Butylbenzene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Carbon disulfide	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Carbon tetrachloride	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Chlorobenzene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Chloroethane	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Chloroform	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Chloromethane	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
2-Chlorotoluene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
4-Chlorotoluene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Dibromochloromethane	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Dibromomethane	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
1,1-Dichloroethane	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
1,2-Dichloroethane	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
1,1-Dichloroethene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
1,2-Dichloropropane	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
1,3-Dichloropropane	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
2,2-Dichloropropane	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
1,1-Dichloropropene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Hexachlorobutadiene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89468
Sample ID: VEW-2
Project: 04-40001

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Isopropylbenzene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
4-Isopropyltoluene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Methylene chloride	ND	ug/L	2.50	1.0	6/11/03	23:54	S. Udeze	8260B	6764
n-Propylbenzene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Styrene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Tetrachloroethene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Trichloroethene	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
1,2,4-Trimethylbenzene	2.3	ug/L	1.0	1.0	6/11/03	23:54	S. Udeze	8260B	6764
1,3,5-Trimethylbenzene	6.00	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Vinyl chloride	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Bromodichloromethane	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764
Trichlorofluoromethane	ND	ug/L	1.00	1.0	6/11/03	23:54	S. Udeze	8260B	6764

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	950. ml	1.0 ml	6/13/03		M. Cauthen	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89468
Sample ID: VEW-2
Project: 04-40001

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	86.	70. - 133.
VOA Surr Toluene-d8	91.	76. - 123.
VOA Surr, 4-BFB	112.	71. - 132.
VOA Surr, DBFM	93.	74. - 128.
BNA Surr-Nitrobenzene-d5	109. #	34. - 107.
BNA Surr-2-Fluorobiphenyl	116. #	40. - 96.
BNA Surr-Terphenyl-d14	139. #	26. - 106.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: 04-40001
Project Name: NAS CECIL FIELD-DAY TANK
Sampler: KB/DR

Lab Number: 03-A89469
Sample ID: VEW-3
Sample Type: Water
Site ID:

Date Collected: 6/ 6/03
Time Collected: 17:13
Date Received: 6/10/03
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/18/03	2:01	D. Harris	8270C-SIM	8304
Acenaphthylene	ND	ug/L	0.10	1.0	6/18/03	2:01	D. Harris	8270C-SIM	8304
Anthracene	ND	ug/L	0.10	1.0	6/18/03	2:01	D. Harris	8270C-SIM	8304
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/18/03	2:01	D. Harris	8270C-SIM	8304
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/18/03	2:01	D. Harris	8270C-SIM	8304
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/18/03	2:01	D. Harris	8270C-SIM	8304
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/18/03	2:01	D. Harris	8270C-SIM	8304
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/18/03	2:01	D. Harris	8270C-SIM	8304
Chrysene	ND	ug/L	0.10	1.0	6/18/03	2:01	D. Harris	8270C-SIM	8304
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/18/03	2:01	D. Harris	8270C-SIM	8304
Fluoranthene	ND	ug/L	0.10	1.0	6/18/03	2:01	D. Harris	8270C-SIM	8304
Fluorene	ND	ug/L	0.10	1.0	6/18/03	2:01	D. Harris	8270C-SIM	8304
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/18/03	2:01	D. Harris	8270C-SIM	8304
2-Methylnaphthalene	ND	ug/L	0.10	1.0	6/18/03	2:01	D. Harris	8270C-SIM	8304
Naphthalene	ND	ug/L	0.10	1.0	6/18/03	2:01	D. Harris	8270C-SIM	8304
Phenanthrene	ND	ug/L	0.10	1.0	6/18/03	2:01	D. Harris	8270C-SIM	8304
Pyrene	ND	ug/L	0.10	1.0	6/18/03	2:01	D. Harris	8270C-SIM	8304
1-Methylnaphthalene	ND	ug/L	0.10	1.0	6/18/03	2:01	D. Harris	8270C-SIM	8304
VOLATILE ORGANICS									
Benzene	ND	ug/L	1.0	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Toluene	ND	ug/L	1.0	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Ethylbenzene	ND	ug/L	1.0	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Xylenes (Total)	4.9	ug/L	1.0	1.0	6/12/03	0:24	S. Udeze	8260B	6764
1,2-Dibromoethane	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Naphthalene	ND	ug/L	5.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89469
Sample ID: VEW-3
Project: 04-40001

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Bromobenzene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Bromochloromethane	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Bromoform	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Bromomethane	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
2-Butanone	ND	ug/L	25.0	1.0	6/12/03	0:24	S. Udeze	8260B	6764
n-Butylbenzene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
sec-Butylbenzene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
t-Butylbenzene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Carbon disulfide	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Carbon tetrachloride	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Chlorobenzene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Chloroethane	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Chloroform	1.80	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Chloromethane	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
2-Chlorotoluene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
4-Chlorotoluene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Dibromochloromethane	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Dibromomethane	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
1,1-Dichloroethane	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
1,2-Dichloroethane	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
1,1-Dichloroethene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
1,2-Dichloropropane	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
1,3-Dichloropropane	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
2,2-Dichloropropane	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
1,1-Dichloropropene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Hexachlorobutadiene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89469
Sample ID: VEW-3
Project: 04-40001

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Isopropylbenzene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
4-Isopropyltoluene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Methylene chloride	ND	ug/L	2.50	1.0	6/12/03	0:24	S. Udeze	8260B	6764
n-Propylbenzene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Styrene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Tetrachloroethene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Trichloroethene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	6/12/03	0:24	S. Udeze	8260B	6764
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Vinyl chloride	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Bromodichloromethane	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764
Trichlorofluoromethane	ND	ug/L	1.00	1.0	6/12/03	0:24	S. Udeze	8260B	6764

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	960. ml	1.0 ml	6/13/03		M. Cauthen	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89469
Sample ID: VEW-3
Project: 04-40001

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	84.	70. - 133.
VOA Surr Toluene-d8	91.	76. - 123.
VOA Surr, 4-BFB	111.	71. - 132.
VOA Surr, DBFM	93.	74. - 128.
BNA Surr-Nitrobenzene-d5	103.	34. - 107.
BNA Surr-2-Fluorobiphenyl	102. #	40. - 96.
BNA Surr-Terphenyl-d14	131. #	26. - 106.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: 04-40001
Project Name: NAS CECIL FIELD-DAY TANK
Sampler: KB/DR

Lab Number: 03-A89470
Sample ID: VEW-4
Sample Type: Water
Site ID:

Date Collected: 6/ 7/03
Time Collected: 10:05
Date Received: 6/10/03
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/18/03	2:34	D. Harris	8270C-SIM	8304
Acenaphthylene	ND	ug/L	0.10	1.0	6/18/03	2:34	D. Harris	8270C-SIM	8304
Anthracene	ND	ug/L	0.10	1.0	6/18/03	2:34	D. Harris	8270C-SIM	8304
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/18/03	2:34	D. Harris	8270C-SIM	8304
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/18/03	2:34	D. Harris	8270C-SIM	8304
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/18/03	2:34	D. Harris	8270C-SIM	8304
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/18/03	2:34	D. Harris	8270C-SIM	8304
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/18/03	2:34	D. Harris	8270C-SIM	8304
Chrysene	ND	ug/L	0.10	1.0	6/18/03	2:34	D. Harris	8270C-SIM	8304
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/18/03	2:34	D. Harris	8270C-SIM	8304
Fluoranthene	ND	ug/L	0.10	1.0	6/18/03	2:34	D. Harris	8270C-SIM	8304
Fluorene	ND	ug/L	0.10	1.0	6/18/03	2:34	D. Harris	8270C-SIM	8304
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/18/03	2:34	D. Harris	8270C-SIM	8304
2-Methylnaphthalene	ND	ug/L	0.10	1.0	6/18/03	2:34	D. Harris	8270C-SIM	8304
Naphthalene	ND	ug/L	0.10	1.0	6/18/03	2:34	D. Harris	8270C-SIM	8304
Phenanthrene	ND	ug/L	0.10	1.0	6/18/03	2:34	D. Harris	8270C-SIM	8304
Pyrene	ND	ug/L	0.10	1.0	6/18/03	2:34	D. Harris	8270C-SIM	8304
1-Methylnaphthalene	ND	ug/L	0.10	1.0	6/18/03	2:34	D. Harris	8270C-SIM	8304
VOLATILE ORGANICS									
Benzene	ND	ug/L	1.0	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Toluene	ND	ug/L	1.0	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Ethylbenzene	ND	ug/L	1.0	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Xylenes (Total)	ND	ug/L	1.0	1.0	6/12/03	0:53	S. Udeze	8260B	6764
1,2-Dibromoethane	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Naphthalene	ND	ug/L	5.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89470
Sample ID: VEW-4
Project: 04-40001

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Bromobenzene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Bromochloromethane	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Bromoform	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Bromomethane	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
2-Butanone	ND	ug/L	25.0	1.0	6/12/03	0:53	S. Udeze	8260B	6764
n-Butylbenzene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
sec-Butylbenzene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
t-Butylbenzene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Carbon disulfide	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Carbon tetrachloride	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Chlorobenzene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Chloroethane	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Chloroform	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Chloromethane	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
2-Chlorotoluene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
4-Chlorotoluene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Dibromochloromethane	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Dibromomethane	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
1,1-Dichloroethane	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
1,2-Dichloroethane	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
1,1-Dichloroethene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
1,2-Dichloropropane	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
1,3-Dichloropropane	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
2,2-Dichloropropane	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
1,1-Dichloropropene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Hexachlorobutadiene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89470
Sample ID: VEW-4
Project: 04-40001

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Isopropylbenzene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
4-Isopropyltoluene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Methylene chloride	ND	ug/L	2.50	1.0	6/12/03	0:53	S. Udeze	8260B	6764
n-Propylbenzene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Styrene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Tetrachloroethene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Trichloroethene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	6/12/03	0:53	S. Udeze	8260B	6764
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Vinyl chloride	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Bromodichloromethane	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764
Trichlorofluoromethane	ND	ug/L	1.00	1.0	6/12/03	0:53	S. Udeze	8260B	6764

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	960. ml	1.0 ml	6/13/03		M. Cauthen	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89470
Sample ID: VEW-4
Project: 04-40001

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	87.	70. - 133.
VOA Surr Toluene-d8	92.	76. - 123.
VOA Surr, 4-BFB	114.	71. - 132.
VOA Surr, DBFM	95.	74. - 128.
BNA Surr-Nitrobenzene-d5	88.	34. - 107.
BNA Surr-2-Fluorobiphenyl	93.	40. - 96.
BNA Surr-Terphenyl-d14	129. #	26. - 106.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: 04-40001
Project Name: NAS CECIL FIELD-DAY TANK
Sampler: KB/DR

Lab Number: 03-A89471
Sample ID: VEW-5
Sample Type: Water
Site ID:

Date Collected: 6/ 6/03
Time Collected: 19:11
Date Received: 6/10/03
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/18/03	3:08	D. Harris	8270C-SIM	8304
Acenaphthylene	ND	ug/L	0.10	1.0	6/18/03	3:08	D. Harris	8270C-SIM	8304
Anthracene	ND	ug/L	0.10	1.0	6/18/03	3:08	D. Harris	8270C-SIM	8304
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/18/03	3:08	D. Harris	8270C-SIM	8304
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/18/03	3:08	D. Harris	8270C-SIM	8304
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/18/03	3:08	D. Harris	8270C-SIM	8304
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/18/03	3:08	D. Harris	8270C-SIM	8304
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/18/03	3:08	D. Harris	8270C-SIM	8304
Chrysene	ND	ug/L	0.10	1.0	6/18/03	3:08	D. Harris	8270C-SIM	8304
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/18/03	3:08	D. Harris	8270C-SIM	8304
Fluoranthene	ND	ug/L	0.10	1.0	6/18/03	3:08	D. Harris	8270C-SIM	8304
Fluorene	ND	ug/L	0.10	1.0	6/18/03	3:08	D. Harris	8270C-SIM	8304
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/18/03	3:08	D. Harris	8270C-SIM	8304
2-Methylnaphthalene	ND	ug/L	0.10	1.0	6/18/03	3:08	D. Harris	8270C-SIM	8304
Naphthalene	ND	ug/L	0.10	1.0	6/18/03	3:08	D. Harris	8270C-SIM	8304
Phenanthrene	ND	ug/L	0.10	1.0	6/18/03	3:08	D. Harris	8270C-SIM	8304
Pyrene	ND	ug/L	0.10	1.0	6/18/03	3:08	D. Harris	8270C-SIM	8304
1-Methylnaphthalene	ND	ug/L	0.10	1.0	6/18/03	3:08	D. Harris	8270C-SIM	8304
VOLATILE ORGANICS									
Benzene	ND	ug/L	1.0	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Toluene	ND	ug/L	1.0	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Ethylbenzene	ND	ug/L	1.0	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Xylenes (Total)	ND	ug/L	1.0	1.0	6/12/03	1:23	S. Udeze	8260B	6764
1,2-Dibromoethane	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Naphthalene	ND	ug/L	5.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89471
Sample ID: VEW-5
Project: 04-40001

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Bromobenzene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Bromochloromethane	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Bromoform	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Bromomethane	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
2-Butanone	ND	ug/L	25.0	1.0	6/12/03	1:23	S. Udeze	8260B	6764
n-Butylbenzene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
sec-Butylbenzene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
t-Butylbenzene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Carbon disulfide	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Carbon tetrachloride	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Chlorobenzene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Chloroethane	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Chloroform	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Chloromethane	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
2-Chlorotoluene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
4-Chlorotoluene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Dibromochloromethane	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Dibromomethane	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
1,1-Dichloroethane	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
1,2-Dichloroethane	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
1,1-Dichloroethene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
1,2-Dichloropropane	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
1,3-Dichloropropane	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
2,2-Dichloropropane	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
1,1-Dichloropropene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Hexachlorobutadiene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89471
Sample ID: VEW-5
Project: 04-40001

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Isopropylbenzene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
4-Isopropyltoluene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Methylene chloride	ND	ug/L	2.50	1.0	6/12/03	1:23	S. Udeze	8260B	6764
n-Propylbenzene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Styrene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Tetrachloroethene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Trichloroethene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	6/12/03	1:23	S. Udeze	8260B	6764
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Vinyl chloride	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Bromodichloromethane	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764
Trichlorofluoromethane	ND	ug/L	1.00	1.0	6/12/03	1:23	S. Udeze	8260B	6764

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	960. ml	1.0 ml	6/13/03		M. Cauthen	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89471
Sample ID: VEW-5
Project: 04-40001

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	88.	70. - 133.
VOA Surr Toluene-d8	92.	76. - 123.
VOA Surr, 4-BFB	113.	71. - 132.
VOA Surr, DBFM	95.	74. - 128.
BNA Surr-Nitrobenzene-d5	79.	34. - 107.
BNA Surr-2-Fluorobiphenyl	86.	40. - 96.
BNA Surr-Terphenyl-d14	122. #	26. - 106.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: 04-40001
Project Name: NAS CECIL FIELD-DAY TANK
Sampler: KB/DR

Lab Number: 03-A89472
Sample ID: Trip Blank
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 6/10/03
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
VOLATILE ORGANICS									
Benzene	ND	ug/L	1.0	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Toluene	ND	ug/L	1.0	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Ethylbenzene	ND	ug/L	1.0	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Xylenes (Total)	ND	ug/L	1.0	1.0	6/11/03	22:25	S. Udeze	8260B	6764
1,2-Dibromoethane	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Naphthalene	ND	ug/L	5.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Acetone	ND	ug/L	25.0	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Bromobenzene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Bromochloromethane	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Bromoform	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Bromomethane	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
2-Butanone	ND	ug/L	25.0	1.0	6/11/03	22:25	S. Udeze	8260B	6764
n-Butylbenzene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
sec-Butylbenzene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
t-Butylbenzene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Carbon disulfide	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Carbon tetrachloride	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Chlorobenzene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Chloroethane	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Chloroform	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Chloromethane	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
2-Chlorotoluene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
4-Chlorotoluene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Dibromochloromethane	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Dibromomethane	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89472
Sample ID: Trip Blank
Project: 04-40001

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
1,1-Dichloroethane	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
1,2-Dichloroethane	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
1,1-Dichloroethene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
1,2-Dichloropropane	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
1,3-Dichloropropane	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
2,2-Dichloropropane	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
1,1-Dichloropropene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Hexachlorobutadiene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
2-Hexanone	ND	ug/L	5.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Isopropylbenzene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
4-Isopropyltoluene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Methylene chloride	ND	ug/L	2.50	1.0	6/11/03	22:25	S. Udeze	8260B	6764
n-Propylbenzene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Styrene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Tetrachloroethene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Trichloroethene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	6/11/03	22:25	S. Udeze	8260B	6764
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Vinyl chloride	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764
Bromodichloromethane	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89472
Sample ID: Trip Blank
Project: 04-40001
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Trichlorofluoromethane	ND	ug/L	1.00	1.0	6/11/03	22:25	S. Udeze	8260B	6764

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	83.	70. - 133.
VOA Surr Toluene-d8	92.	76. - 123.
VOA Surr, 4-BFB	121.	71. - 132.
VOA Surr, DBFM	93.	74. - 128.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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ANALYTICAL REPORT

TERRAINE, INC. 9463
JIM YOUNG
2622 N.W. 97TH
MIAMI, FL 33172

Project: 04-40001
Project Name: NAS CECIL FIELD-DAY TANK
Sampler: KB/DR

Lab Number: 03-A89473
Sample ID: EB-DAYTANK1
Sample Type: Water
Site ID:

Date Collected: 6/ 6/03
Time Collected: 19:25
Date Received: 6/10/03
Time Received: 8:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS									
Acenaphthene	ND	ug/L	0.10	1.0	6/18/03	3:42	D. Harris	8270C-SIM	8304
Acenaphthylene	ND	ug/L	0.10	1.0	6/18/03	3:42	D. Harris	8270C-SIM	8304
Anthracene	ND	ug/L	0.10	1.0	6/18/03	3:42	D. Harris	8270C-SIM	8304
Benzo(a)anthracene	ND	ug/L	0.10	1.0	6/18/03	3:42	D. Harris	8270C-SIM	8304
Benzo(a)pyrene	ND	ug/L	0.10	1.0	6/18/03	3:42	D. Harris	8270C-SIM	8304
Benzo(b)fluoranthene	ND	ug/L	0.10	1.0	6/18/03	3:42	D. Harris	8270C-SIM	8304
Benzo(g,h,i)perylene	ND	ug/L	0.10	1.0	6/18/03	3:42	D. Harris	8270C-SIM	8304
Benzo(k)fluoranthene	ND	ug/L	0.10	1.0	6/18/03	3:42	D. Harris	8270C-SIM	8304
Chrysene	ND	ug/L	0.10	1.0	6/18/03	3:42	D. Harris	8270C-SIM	8304
Dibenz(a,h)anthracene	ND	ug/L	0.10	1.0	6/18/03	3:42	D. Harris	8270C-SIM	8304
Fluoranthene	ND	ug/L	0.10	1.0	6/18/03	3:42	D. Harris	8270C-SIM	8304
Fluorene	ND	ug/L	0.10	1.0	6/18/03	3:42	D. Harris	8270C-SIM	8304
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1.0	6/18/03	3:42	D. Harris	8270C-SIM	8304
2-Methylnaphthalene	ND	ug/L	0.10	1.0	6/18/03	3:42	D. Harris	8270C-SIM	8304
Naphthalene	0.97	ug/L	0.10	1.0	6/18/03	3:42	D. Harris	8270C-SIM	8304
Phenanthrene	ND	ug/L	0.10	1.0	6/18/03	3:42	D. Harris	8270C-SIM	8304
Pyrene	ND	ug/L	0.10	1.0	6/18/03	3:42	D. Harris	8270C-SIM	8304
1-Methylnaphthalene	ND	ug/L	0.10	1.0	6/18/03	3:42	D. Harris	8270C-SIM	8304
VOLATILE ORGANICS									
Benzene	ND	ug/L	1.0	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Toluene	ND	ug/L	1.0	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Ethylbenzene	ND	ug/L	1.0	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Xylenes (Total)	ND	ug/L	1.0	1.0	6/12/03	1:52	S. Udeze	8260B	6764
1,2-Dibromoethane	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Naphthalene	ND	ug/L	5.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89473
Sample ID: EB-DAYTANK1
Project: 04-40001
Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	ug/L	25.0	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Bromobenzene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Bromochloromethane	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Bromoform	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Bromomethane	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
2-Butanone	ND	ug/L	25.0	1.0	6/12/03	1:52	S. Udeze	8260B	6764
n-Butylbenzene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
sec-Butylbenzene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
t-Butylbenzene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Carbon disulfide	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Carbon tetrachloride	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Chlorobenzene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Chloroethane	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Chloroform	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Chloromethane	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
2-Chlorotoluene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
4-Chlorotoluene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Dibromochloromethane	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Dibromomethane	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
1,2-Dichlorobenzene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
1,3-Dichlorobenzene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
1,4-Dichlorobenzene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Dichlorodifluoromethane	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
1,1-Dichloroethane	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
1,2-Dichloroethane	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
1,1-Dichloroethene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
cis-1,2-Dichloroethene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
trans-1,2-Dichloroethene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
1,2-Dichloropropane	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
1,3-Dichloropropane	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
2,2-Dichloropropane	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
1,1-Dichloropropene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
cis-1,3-Dichloropropene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
trans-1,3-Dichloropropene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Hexachlorobutadiene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89473
Sample ID: EB-DAYTANK1
Project: 04-40001

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
2-Hexanone	ND	ug/L	5.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Isopropylbenzene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
4-Isopropyltoluene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
4-Methyl-2-pentanone	ND	ug/L	5.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Methylene chloride	ND	ug/L	2.50	1.0	6/12/03	1:52	S. Udeze	8260B	6764
n-Propylbenzene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Styrene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Tetrachloroethene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
1,2,3-Trichlorobenzene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
1,2,4-Trichlorobenzene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
1,1,1-Trichloroethane	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
1,1,2-Trichloroethane	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Trichloroethene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
1,2,3-Trichloropropane	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1.0	6/12/03	1:52	S. Udeze	8260B	6764
1,3,5-Trimethylbenzene	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Vinyl chloride	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Bromodichloromethane	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764
Trichlorofluoromethane	ND	ug/L	1.00	1.0	6/12/03	1:52	S. Udeze	8260B	6764

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH-SIM	950. ml	1.0 ml	6/13/03		M. Cauthen	3510C

Surrogate	% Recovery	Target Range

Sample report continued . . .

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ANALYTICAL REPORT

Laboratory Number: 03-A89473
Sample ID: EB-DAYTANK1
Project: 04-40001

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	89.	70. - 133.
VOA Surr Toluene-d8	91.	76. - 123.
VOA Surr, 4-BFB	114.	71. - 132.
VOA Surr, DBFM	95.	74. - 128.
BNA Surr-Nitrobenzene-d5	85.	34. - 107.
BNA Surr-2-Fluorobiphenyl	93.	40. - 96.
BNA Surr-Terphenyl-d14	123. #	26. - 106.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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PROJECT QUALITY CONTROL DATA
Project Number: 04-40001
Project Name: NAS CECIL FIELD-DAY TANK
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Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
VOA PARAMETERS								
Benzene	mg/l	< 0.0010	0.0528	0.0500	106	68. - 136.	5960	03-A89584
Benzene	mg/l	< 0.0010	0.0497	0.0500	99	68. - 136.	6764	03-A89361
Chlorobenzene	mg/l	< 0.00100	0.0504	0.0500	101	78. - 125.	6764	03-A89361
1,1-Dichloroethene	mg/l	< 0.00100	0.0807	0.0500	161#	67. - 141.	6764	03-A89361
Toluene	mg/l	< 0.0010	0.0544	0.0500	109	73. - 133.	5960	03-A89584
Toluene	mg/l	< 0.0010	0.0595	0.0500	119	73. - 133.	6764	03-A89361
Trichloroethene	mg/l	< 0.00100	0.0608	0.0500	122	69. - 141.	6764	03-A89361
Tetrachloroethene	mg/l	< 0.00100	0.0569	0.0500	114	71. - 134.	6764	03-A89361
VOA Surr 1,2-DCA-d4	% Rec				93	70. - 133.	5960	
VOA Surr 1,2-DCA-d4	% Rec				68	70. - 133.	6764	
VOA Surr Toluene-d8	% Rec				95	76. - 123.	5960	
VOA Surr Toluene-d8	% Rec				95	76. - 123.	6764	
VOA Surr, 4-BFB	% Rec				86	71. - 132.	5960	
VOA Surr, 4-BFB	% Rec				104	71. - 132.	6764	
VOA Surr, DBFM	% Rec				100	74. - 128.	5960	
VOA Surr, DBFM	% Rec				80	74. - 128.	6764	

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
EXTRACTABLE PARAMETERS								
Acenaphthene	mg/l	< 0.00010	0.00103	0.00100	103	28. - 106.	8304	Blank
Acenaphthylene	mg/l	< 0.00010	0.00097	0.00100	97	26. - 106.	8304	Blank

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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Project Name: NAS CECIL FIELD-DAY TANK
Page: 2
Laboratory Receipt Date: 6/10/03

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
Anthracene	mg/l	< 0.00010	0.00113	0.00100	113	30. - 116.	8304	Blank
Benzo(a)anthracene	mg/l	< 0.00010	0.00140	0.00100	140#	38. - 128.	8304	Blank
Benzo(a)pyrene	mg/l	< 0.00010	0.00110	0.00100	110	34. - 117.	8304	Blank
Benzo(b)fluoranthene	mg/l	< 0.00010	0.00121	0.00100	121	37. - 132.	8304	Blank
Benzo(g,h,i)perylene	mg/l	< 0.00010	0.00131	0.00100	131#	25. - 125.	8304	Blank
Benzo(k)fluoranthene	mg/l	< 0.00010	0.00152	0.00100	152#	35. - 128.	8304	Blank
Chrysene	mg/l	< 0.00010	0.00140	0.00100	140#	42. - 126.	8304	Blank
Dibenz(a,h)anthracene	mg/l	< 0.00010	0.00118	0.00100	118	31. - 128.	8304	Blank
Fluoranthene	mg/l	< 0.00010	0.00140	0.00100	140#	35. - 125.	8304	Blank
Fluorene	mg/l	< 0.00010	0.00109	0.00100	109	30. - 112.	8304	Blank
Indeno(1,2,3-cd)pyrene	mg/l	< 0.00010	0.00124	0.00100	124	31. - 124.	8304	Blank
2-Methylnaphthalene	mg/l	< 0.00010	0.00087	0.00100	87	25. - 113.	8304	Blank
Naphthalene	mg/l	< 0.00010	0.00095	0.00100	95	9. - 120.	8304	Blank
Phenanthrene	mg/l	< 0.00010	0.00128	0.00100	128#	34. - 116.	8304	Blank
Pyrene	mg/l	< 0.00010	0.00152	0.00100	152#	35. - 118.	8304	Blank
1-Methylnaphthalene	mg/l	< 0.00010	0.00090	0.00100	90	31. - 112.	8304	Blank
BNA Surr-Nitrobenzene-d5	% Rec				92	34. - 107.	8304	
BNA Surr-2-Fluorobiphenyl	% Rec				101	40. - 96.	8304	
BNA Surr-Terphenyl-d14	% Rec				152	26. - 106.	8304	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
VOA PARAMETERS						
Benzene	mg/l	0.0528	0.0546	3.35	22.	5960
Benzene	mg/l	0.0497	0.0505	1.60	22.	6764
Chlorobenzene	mg/l	0.0561	0.0576	2.64	17.	5960

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Chlorobenzene	mg/l	0.0504	0.0508	0.79	17.	6764
1,1-Dichloroethene	mg/l	0.0540	0.0595	9.69	21.	5960
1,1-Dichloroethene	mg/l	0.0807	0.0826	2.33	21.	6764
Toluene	mg/l	0.0544	0.0566	3.96	22.	5960
Toluene	mg/l	0.0595	0.0551	7.68	22.	6764
Trichloroethene	mg/l	0.0552	0.0574	3.91	22.	5960
Trichloroethene	mg/l	0.0608	0.0623	2.44	22.	6764
Tetrachloroethene	mg/l	0.0532	0.0567	6.37	19.	5960
Tetrachloroethene	mg/l	0.0569	0.0552	3.03	19.	6764
VOA Surr 1,2-DCA-d4	% Rec		94.			5960
VOA Surr 1,2-DCA-d4	% Rec		74.			6764
VOA Surr Toluene-d8	% Rec		95.			5960
VOA Surr Toluene-d8	% Rec		90.			6764
VOA Surr, 4-BFB	% Rec		88.			5960
VOA Surr, 4-BFB	% Rec		103.			6764
VOA Surr, DBFM	% Rec		99.			5960
VOA Surr, DBFM	% Rec		85.			6764

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00103	0.00083	21.51	33.	8304
Pyrene	mg/l	0.00152	0.00121	22.71	32.	8304

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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BNA Surr-Nitrobenzene-d5	% Rec	77.	8304
BNA Surr-2-Fluorobiphenyl	% Rec	82.	8304
BNA Surr-Terphenyl-d14	% Rec	122.	8304

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
VOA PARAMETERS						
Acetone	mg/l	0.250	0.220	88	52 - 151	5960
Acetone	mg/l	0.250	0.234	94	52 - 151	5960
Acetone	mg/l	0.250	0.189	76	52 - 151	6764
Benzene	mg/l	0.0500	0.0475	95	78 - 125	5960
Benzene	mg/l	0.0500	0.0507	101	78 - 125	5960
Benzene	mg/l	0.0500	0.0470	94	78 - 125	6764
Bromobenzene	mg/l	0.0500	0.0427	85	75 - 127	5960
Bromobenzene	mg/l	0.0500	0.0462	92	75 - 127	5960
Bromobenzene	mg/l	0.0500	0.0487	97	75 - 127	6764
Bromochloromethane	mg/l	0.0500	0.0507	101	72 - 136	5960
Bromochloromethane	mg/l	0.0500	0.0539	108	72 - 136	5960
Bromochloromethane	mg/l	0.0500	0.0498	100	72 - 136	6764
Bromoform	mg/l	0.0500	0.0376	75	63 - 130	5960
Bromoform	mg/l	0.0500	0.0385	77	63 - 130	5960
Bromoform	mg/l	0.0500	0.0443	89	63 - 130	6764
Bromomethane	mg/l	0.0500	0.0527	105	46 - 156	5960
Bromomethane	mg/l	0.0500	0.0556	111	46 - 156	5960
Bromomethane	mg/l	0.0500	0.0460	92	46 - 156	6764
2-Butanone	mg/l	0.250	0.218	87	67 - 143	5960
2-Butanone	mg/l	0.250	0.224	90	67 - 143	5960
n-Butylbenzene	mg/l	0.0500	0.0482	96	65 - 132	5960
n-Butylbenzene	mg/l	0.0500	0.0524	105	65 - 132	5960
n-Butylbenzene	mg/l	0.0500	0.0487	97	65 - 132	6764
sec-Butylbenzene	mg/l	0.0500	0.0472	94	72 - 129	5960
sec-Butylbenzene	mg/l	0.0500	0.0510	102	72 - 129	5960
sec-Butylbenzene	mg/l	0.0500	0.0525	105	72 - 129	6764

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-40001
Project Name: NAS CECIL FIELD-DAY TANK
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
t-Butylbenzene	mg/l	0.0500	0.0445	89	43 - 128	5960
t-Butylbenzene	mg/l	0.0500	0.0466	93	43 - 128	5960
t-Butylbenzene	mg/l	0.0500	0.0525	105	43 - 128	6764
Carbon disulfide	mg/l	0.0500	0.0477	95	68 - 139	5960
Carbon disulfide	mg/l	0.0500	0.0526	105	68 - 139	5960
Carbon disulfide	mg/l	0.0500	0.0460	92	68 - 139	6764
Carbon tetrachloride	mg/l	0.0500	0.0465	93	62 - 140	5960
Carbon tetrachloride	mg/l	0.0500	0.0492	98	62 - 140	5960
Carbon tetrachloride	mg/l	0.0500	0.0436	87	62 - 140	6764
Chlorobenzene	mg/l	0.0500	0.0493	99	82 - 120	5960
Chlorobenzene	mg/l	0.0500	0.0533	107	82 - 120	5960
Chlorobenzene	mg/l	0.0500	0.0500	100	82 - 120	6764
Chloroethane	mg/l	0.0500	0.0423	85	61 - 142	5960
Chloroethane	mg/l	0.0500	0.0450	90	61 - 142	5960
Chloroethane	mg/l	0.0500	0.0391	78	61 - 142	6764
Chloroform	mg/l	0.0500	0.0484	97	75 - 129	5960
Chloroform	mg/l	0.0500	0.0526	105	75 - 129	5960
Chloroform	mg/l	0.0500	0.0448	90	75 - 129	6764
Chloromethane	mg/l	0.0500	0.0448	90	46 - 147	5960
Chloromethane	mg/l	0.0500	0.0468	94	46 - 147	5960
Chloromethane	mg/l	0.0500	0.0557	111	46 - 147	6764
2-Chlorotoluene	mg/l	0.0500	0.0482	96	76 - 126	5960
2-Chlorotoluene	mg/l	0.0500	0.0515	103	76 - 126	5960
2-Chlorotoluene	mg/l	0.0500	0.0554	111	76 - 126	6764
4-Chlorotoluene	mg/l	0.0500	0.0491	98	77 - 125	5960
4-Chlorotoluene	mg/l	0.0500	0.0538	108	77 - 125	5960
4-Chlorotoluene	mg/l	0.0500	0.0531	106	77 - 125	6764
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0364	73	64 - 132	5960
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0363	73	64 - 132	5960
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0431	86	64 - 132	6764
Dibromochloromethane	mg/l	0.0500	0.0400	80	74 - 132	5960

Project QC continued . . .

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Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Dibromochloromethane	mg/l	0.0500	0.0416	83	74 - 132	5960
Dibromochloromethane	mg/l	0.0500	0.0422	84	74 - 132	6764
1,2-Dibromoethane	mg/l	0.0500	0.0458	92	77 - 128	5960
1,2-Dibromoethane	mg/l	0.0500	0.0469	94	77 - 128	5960
1,2-Dibromoethane	mg/l	0.0500	0.0438	88	77 - 128	6764
Dibromomethane	mg/l	0.0500	0.0477	95	74 - 133	5960
Dibromomethane	mg/l	0.0500	0.0495	99	74 - 133	5960
Dibromomethane	mg/l	0.0500	0.0431	86	74 - 133	6764
1,2-Dichlorobenzene	mg/l	0.0500	0.0529	106	77 - 129	5960
1,2-Dichlorobenzene	mg/l	0.0500	0.0563	113	77 - 129	5960
1,2-Dichlorobenzene	mg/l	0.0500	0.0567	113	77 - 129	6764
1,3-Dichlorobenzene	mg/l	0.0500	0.0529	106	79 - 125	5960
1,3-Dichlorobenzene	mg/l	0.0500	0.0556	111	79 - 125	5960
1,3-Dichlorobenzene	mg/l	0.0500	0.0566	113	79 - 125	6764
1,4-Dichlorobenzene	mg/l	0.0500	0.0505	101	78 - 121	5960
1,4-Dichlorobenzene	mg/l	0.0500	0.0537	107	78 - 121	5960
1,4-Dichlorobenzene	mg/l	0.0500	0.0509	102	78 - 121	6764
Dichlorodifluoromethane	mg/l	0.0500	0.0534	107	45 - 149	5960
Dichlorodifluoromethane	mg/l	0.0500	0.0545	109	45 - 149	5960
Dichlorodifluoromethane	mg/l	0.0500	0.0424	85	45 - 149	6764
1,1-Dichloroethane	mg/l	0.0500	0.0497	99	75 - 129	5960
1,1-Dichloroethane	mg/l	0.0500	0.0542	108	75 - 129	5960
1,1-Dichloroethane	mg/l	0.0500	0.0467	93	75 - 129	6764
1,2-Dichloroethane	mg/l	0.0500	0.0483	97	69 - 135	5960
1,2-Dichloroethane	mg/l	0.0500	0.0504	101	69 - 135	5960
1,2-Dichloroethane	mg/l	0.0500	0.0407	81	69 - 135	6764
1,1-Dichloroethene	mg/l	0.0500	0.0521	104	73 - 132	5960
1,1-Dichloroethene	mg/l	0.0500	0.0592	118	73 - 132	5960
1,1-Dichloroethene	mg/l	0.0500	0.0519	104	73 - 132	6764
cis-1,2-Dichloroethene	mg/l	0.0500	0.0512	102	72 - 132	5960
cis-1,2-Dichloroethene	mg/l	0.0500	0.0547	109	72 - 132	5960

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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
cis-1,2-Dichloroethene	mg/l	0.0500	0.0456	91	72 - 132	6764
trans-1,2-Dichloroethene	mg/l	0.0500	0.0518	104	71 - 134	5960
trans-1,2-Dichloroethene	mg/l	0.0500	0.0567	113	71 - 134	5960
trans-1,2-Dichloroethene	mg/l	0.0500	0.0477	95	71 - 134	6764
1,2-Dichloropropane	mg/l	0.0500	0.0504	101	81 - 126	5960
1,2-Dichloropropane	mg/l	0.0500	0.0532	106	81 - 126	5960
1,2-Dichloropropane	mg/l	0.0500	0.0491	98	81 - 126	6764
1,3-Dichloropropane	mg/l	0.0500	0.0458	92	83 - 127	5960
1,3-Dichloropropane	mg/l	0.0500	0.0480	96	83 - 127	5960
1,3-Dichloropropane	mg/l	0.0500	0.0429	86	83 - 127	6764
2,2-Dichloropropane	mg/l	0.0500	0.0474	95	39 - 151	5960
2,2-Dichloropropane	mg/l	0.0500	0.0460	92	39 - 151	5960
2,2-Dichloropropane	mg/l	0.0500	0.0285	57	39 - 151	6764
1,1-Dichloropropene	mg/l	0.0500	0.0532	106	77 - 128	5960
1,1-Dichloropropene	mg/l	0.0500	0.0578	116	77 - 128	5960
1,1-Dichloropropene	mg/l	0.0500	0.0528	106	77 - 128	6764
cis-1,3-Dichloropropene	mg/l	0.0500	0.0396	79	71 - 133	5960
cis-1,3-Dichloropropene	mg/l	0.0500	0.0397	79	71 - 133	5960
cis-1,3-Dichloropropene	mg/l	0.0500	0.0396	79	71 - 133	6764
trans-1,3-Dichloropropene	mg/l	0.0500	0.0358	72	69 - 131	5960
trans-1,3-Dichloropropene	mg/l	0.0500	0.0348	70	69 - 131	5960
trans-1,3-Dichloropropene	mg/l	0.0500	0.0335	67 #	69 - 131	6764
Ethylbenzene	mg/l	0.0500	0.0428	86	79 - 125	5960
Ethylbenzene	mg/l	0.0500	0.0459	92	79 - 125	5960
Ethylbenzene	mg/l	0.0500	0.0429	86	79 - 125	6764
Hexachlorobutadiene	mg/l	0.0500	0.0576	115	60 - 134	5960
Hexachlorobutadiene	mg/l	0.0500	0.0627	125	60 - 134	5960
2-Hexanone	mg/l	0.250	0.191	76	68 - 145	5960
2-Hexanone	mg/l	0.250	0.199	80	68 - 145	5960
Isopropylbenzene	mg/l	0.0500	0.0427	85	75 - 128	5960
Isopropylbenzene	mg/l	0.0500	0.0462	92	75 - 128	5960

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Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Isopropylbenzene	mg/l	0.0500	0.0441	88	75 - 128	6764
4-Isopropyltoluene	mg/l	0.0500	0.0531	106	73 - 128	5960
4-Isopropyltoluene	mg/l	0.0500	0.0578	116	73 - 128	5960
4-Isopropyltoluene	mg/l	0.0500	0.0553	111	73 - 128	6764
4-Methyl-2-pentanone	mg/l	0.250	0.189	76	71 - 143	5960
4-Methyl-2-pentanone	mg/l	0.250	0.195	78	71 - 143	5960
4-Methyl-2-pentanone	mg/l	0.250	0.171	68 #	71 - 143	6764
Methylene chloride	mg/l	0.0500	0.0492	98	74 - 131	5960
Methylene chloride	mg/l	0.0500	0.0536	107	74 - 131	5960
Methylene chloride	mg/l	0.0500	0.0471	94	74 - 131	6764
Naphthalene	mg/l	0.0500	0.0362	72	62 - 142	5960
Naphthalene	mg/l	0.0500	0.0388	78	62 - 142	5960
Naphthalene	mg/l	0.0500	0.0389	78	62 - 142	6764
n-Propylbenzene	mg/l	0.0500	0.0483	97	73 - 128	5960
n-Propylbenzene	mg/l	0.0500	0.0529	106	73 - 128	5960
n-Propylbenzene	mg/l	0.0500	0.0547	109	73 - 128	6764
Styrene	mg/l	0.0500	0.0475	95	80 - 126	5960
Styrene	mg/l	0.0500	0.0505	101	80 - 126	5960
Styrene	mg/l	0.0500	0.0451	90	80 - 126	6764
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0443	89	78 - 132	5960
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0462	92	78 - 132	5960
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0433	87	78 - 132	6764
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0386	77	70 - 135	5960
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0406	81	70 - 135	5960
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0400	80	70 - 135	6764
Tetrachloroethene	mg/l	0.0500	0.0509	102	74 - 128	5960
Tetrachloroethene	mg/l	0.0500	0.0556	111	74 - 128	5960
Tetrachloroethene	mg/l	0.0500	0.0526	105	74 - 128	6764
Toluene	mg/l	0.0500	0.0489	98	79 - 125	5960
Toluene	mg/l	0.0500	0.0534	107	79 - 125	5960
Toluene	mg/l	0.0500	0.0478	96	79 - 125	6764

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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0405	81	69 - 136	5960
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0438	88	69 - 136	5960
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0447	89	69 - 136	6764
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0429	86	69 - 131	5960
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0457	91	69 - 131	5960
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0510	102	69 - 131	6764
1,1,1-Trichloroethane	mg/l	0.0500	0.0504	101	72 - 132	5960
1,1,1-Trichloroethane	mg/l	0.0500	0.0542	108	72 - 132	5960
1,1,1-Trichloroethane	mg/l	0.0500	0.0479	96	72 - 132	6764
1,1,2-Trichloroethane	mg/l	0.0500	0.0459	92	80 - 133	5960
1,1,2-Trichloroethane	mg/l	0.0500	0.0484	97	80 - 133	5960
1,1,2-Trichloroethane	mg/l	0.0500	0.0407	81	80 - 133	6764
Trichloroethene	mg/l	0.0500	0.0508	102	74 - 133	5960
Trichloroethene	mg/l	0.0500	0.0550	110	74 - 133	5960
Trichloroethene	mg/l	0.0500	0.0547	109	74 - 133	6764
1,2,3-Trichloropropane	mg/l	0.0500	0.0416	83	69 - 136	5960
1,2,3-Trichloropropane	mg/l	0.0500	0.0434	87	69 - 136	5960
1,2,3-Trichloropropane	mg/l	0.0500	0.0436	87	69 - 136	6764
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0466	93	73 - 130	5960
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0467	93	73 - 130	5960
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0508	102	73 - 130	6764
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0422	84	73 - 130	5960
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0458	92	73 - 130	5960
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0458	92	73 - 130	6764
Vinyl chloride	mg/l	0.0500	0.0495	99	63 - 140	5960
Vinyl chloride	mg/l	0.0500	0.0526	105	63 - 140	5960
Vinyl chloride	mg/l	0.0500	0.0423	85	63 - 140	6764
Xylenes (Total)	mg/l	0.150	0.129	86	78 - 127	5960
Xylenes (Total)	mg/l	0.150	0.139	93	78 - 127	5960
Xylenes (Total)	mg/l	0.150	0.123	82	78 - 127	6764
Bromodichloromethane	mg/l	0.0500	0.0508	102	77 - 132	5960

Project QC continued . . .

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Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Bromodichloromethane	mg/l	0.0500	0.0533	107	77 - 132	5960
Bromodichloromethane	mg/l	0.0500	0.0501	100	77 - 132	6764
Trichlorofluoromethane	mg/l	0.0500	0.0470	94	59 - 142	5960
Trichlorofluoromethane	mg/l	0.0500	0.0505	101	59 - 142	5960
Trichlorofluoromethane	mg/l	0.0500	0.0414	83	59 - 142	6764
VOA Surr 1,2-DCA-d4	% Rec			94	70 - 133	5960
VOA Surr 1,2-DCA-d4	% Rec			95	70 - 133	5960
VOA Surr 1,2-DCA-d4	% Rec			80	70 - 133	6764
VOA Surr Toluene-d8	% Rec			95	76 - 123	5960
VOA Surr Toluene-d8	% Rec			96	76 - 123	5960
VOA Surr Toluene-d8	% Rec			92	76 - 123	6764
VOA Surr, 4-BFB	% Rec			85	71 - 132	5960
VOA Surr, 4-BFB	% Rec			86	71 - 132	5960
VOA Surr, 4-BFB	% Rec			102	71 - 132	6764
VOA Surr, DBFM	% Rec			100	74 - 128	5960
VOA Surr, DBFM	% Rec			99	74 - 128	5960
VOA Surr, DBFM	% Rec			94	74 - 128	6764

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
EXTRACTABLE PARAMETERS						
Acenaphthene	mg/l	0.00100	0.00088	88	28 - 106	8304
Acenaphthylene	mg/l	0.00100	0.00082	82	26 - 106	8304
Anthracene	mg/l	0.00100	0.00095	95	30 - 116	8304
Benzo(a)anthracene	mg/l	0.00100	0.00117	117	38 - 128	8304
Benzo(a)pyrene	mg/l	0.00100	0.00093	93	34 - 117	8304
Benzo(b)fluoranthene	mg/l	0.00100	0.00108	108	37 - 132	8304
Benzo(g,h,i)perylene	mg/l	0.00100	0.00112	112	28 - 122	8304

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Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Benzo(k)fluoranthene	mg/l	0.00100	0.00136	136 #	35 - 128	8304
Chrysene	mg/l	0.00100	0.00123	123	42 - 126	8304
Dibenz(a,h)anthracene	mg/l	0.00100	0.00108	108	35 - 124	8304
Fluoranthene	mg/l	0.00100	0.00117	117	35 - 125	8304
Fluorene	mg/l	0.00100	0.00091	91	30 - 112	8304
Indeno(1,2,3-cd)pyrene	mg/l	0.00100	0.00108	108	34 - 121	8304
2-Methylnaphthalene	mg/l	0.00100	0.00074	74	31 - 108	8304
Naphthalene	mg/l	0.00100	0.00105	105	9 - 120	8304
Phenanthrene	mg/l	0.00100	0.00108	108	34 - 116	8304
Pyrene	mg/l	0.00100	0.00129	129 #	35 - 118	8304
1-Methylnaphthalene	mg/l	0.00100	0.00075	75	31 - 112	8304
BNA Surr-Nitrobenzene-d5	% Rec			82	34 - 107	8304
BNA Surr-2-Fluorobiphenyl	% Rec			88	40 - 96	8304
BNA Surr-Terphenyl-d14	% Rec			120	26 - 106	8304

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
VOA PARAMETERS					
Acetone	0.0107	mg/l	5960	6/10/03	21:33
Acetone	0.00620	mg/l	5960	6/11/03	11:21
Acetone	0.0101	mg/l	6764	6/11/03	21:56
Benzene	< 0.0005	mg/l	5960	6/10/03	21:33
Benzene	< 0.0005	mg/l	5960	6/11/03	11:21
Benzene	< 0.0005	mg/l	6764	6/11/03	21:56
Bromobenzene	< 0.00030	mg/l	5960	6/10/03	21:33
Bromobenzene	< 0.00030	mg/l	5960	6/11/03	11:21
Bromobenzene	< 0.00030	mg/l	6764	6/11/03	21:56
Bromochloromethane	< 0.00030	mg/l	5960	6/10/03	21:33

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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Bromochloromethane	< 0.00030	mg/l	5960	6/11/03	11:21
Bromochloromethane	< 0.00030	mg/l	6764	6/11/03	21:56
Bromoform	< 0.00060	mg/l	5960	6/10/03	21:33
Bromoform	< 0.00060	mg/l	5960	6/11/03	11:21
Bromoform	< 0.00060	mg/l	6764	6/11/03	21:56
Bromomethane	< 0.00060	mg/l	5960	6/10/03	21:33
Bromomethane	< 0.00060	mg/l	5960	6/11/03	11:21
Bromomethane	< 0.00060	mg/l	6764	6/11/03	21:56
2-Butanone	< 0.00310	mg/l	5960	6/10/03	21:33
2-Butanone	< 0.00310	mg/l	5960	6/11/03	11:21
2-Butanone	< 0.00310	mg/l	6764	6/11/03	21:56
n-Butylbenzene	< 0.00010	mg/l	5960	6/10/03	21:33
n-Butylbenzene	< 0.00010	mg/l	5960	6/11/03	11:21
n-Butylbenzene	< 0.00010	mg/l	6764	6/11/03	21:56
sec-Butylbenzene	< 0.00030	mg/l	5960	6/10/03	21:33
sec-Butylbenzene	< 0.00030	mg/l	5960	6/11/03	11:21
sec-Butylbenzene	< 0.00030	mg/l	6764	6/11/03	21:56
t-Butylbenzene	< 0.00030	mg/l	5960	6/10/03	21:33
t-Butylbenzene	< 0.00030	mg/l	5960	6/11/03	11:21
t-Butylbenzene	< 0.00030	mg/l	6764	6/11/03	21:56
Carbon disulfide	< 0.00020	mg/l	5960	6/10/03	21:33
Carbon disulfide	< 0.00020	mg/l	5960	6/11/03	11:21
Carbon disulfide	< 0.00020	mg/l	6764	6/11/03	21:56
Carbon tetrachloride	< 0.00040	mg/l	5960	6/10/03	21:33
Carbon tetrachloride	< 0.00040	mg/l	5960	6/11/03	11:21
Carbon tetrachloride	< 0.00040	mg/l	6764	6/11/03	21:56
Chlorobenzene	< 0.00020	mg/l	5960	6/10/03	21:33
Chlorobenzene	< 0.00020	mg/l	5960	6/11/03	11:21
Chlorobenzene	< 0.00020	mg/l	6764	6/11/03	21:56
Chloroethane	< 0.00100	mg/l	5960	6/10/03	21:33
Chloroethane	< 0.00100	mg/l	5960	6/11/03	11:21

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
Project Number: 04-40001
Project Name: NAS CECIL FIELD-DAY TANK
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Chloroethane	< 0.00100	mg/l	6764	6/11/03	21:56
Chloroform	< 0.00080	mg/l	5960	6/10/03	21:33
Chloroform	< 0.00080	mg/l	5960	6/11/03	11:21
Chloroform	< 0.00080	mg/l	6764	6/11/03	21:56
Chloromethane	< 0.00070	mg/l	5960	6/10/03	21:33
Chloromethane	< 0.00070	mg/l	5960	6/11/03	11:21
Chloromethane	< 0.00070	mg/l	6764	6/11/03	21:56
2-Chlorotoluene	< 0.00040	mg/l	5960	6/10/03	21:33
2-Chlorotoluene	< 0.00040	mg/l	5960	6/11/03	11:21
2-Chlorotoluene	< 0.00040	mg/l	6764	6/11/03	21:56
4-Chlorotoluene	< 0.00050	mg/l	5960	6/10/03	21:33
4-Chlorotoluene	< 0.00050	mg/l	5960	6/11/03	11:21
4-Chlorotoluene	< 0.00050	mg/l	6764	6/11/03	21:56
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	5960	6/10/03	21:33
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	5960	6/11/03	11:21
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	6764	6/11/03	21:56
Dibromochloromethane	< 0.00050	mg/l	5960	6/10/03	21:33
Dibromochloromethane	< 0.00050	mg/l	5960	6/11/03	11:21
Dibromochloromethane	< 0.00050	mg/l	6764	6/11/03	21:56
1,2-Dibromoethane	< 0.00040	mg/l	5960	6/10/03	21:33
1,2-Dibromoethane	< 0.00040	mg/l	5960	6/11/03	11:21
1,2-Dibromoethane	< 0.00040	mg/l	6764	6/11/03	21:56
Dibromomethane	< 0.00090	mg/l	5960	6/10/03	21:33
Dibromomethane	< 0.00090	mg/l	5960	6/11/03	11:21
Dibromomethane	< 0.00090	mg/l	6764	6/11/03	21:56
1,2-Dichlorobenzene	< 0.00020	mg/l	5960	6/10/03	21:33
1,2-Dichlorobenzene	< 0.00020	mg/l	5960	6/11/03	11:21
1,2-Dichlorobenzene	< 0.00020	mg/l	6764	6/11/03	21:56
1,3-Dichlorobenzene	< 0.00030	mg/l	5960	6/10/03	21:33
1,3-Dichlorobenzene	< 0.00030	mg/l	5960	6/11/03	11:21
1,3-Dichlorobenzene	< 0.00030	mg/l	6764	6/11/03	21:56

Project QC continued . . .

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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,4-Dichlorobenzene	< 0.00040	mg/l	5960	6/10/03	21:33
1,4-Dichlorobenzene	< 0.00040	mg/l	5960	6/11/03	11:21
1,4-Dichlorobenzene	< 0.00040	mg/l	6764	6/11/03	21:56
Dichlorodifluoromethane	< 0.00050	mg/l	5960	6/10/03	21:33
Dichlorodifluoromethane	< 0.00050	mg/l	5960	6/11/03	11:21
Dichlorodifluoromethane	< 0.00050	mg/l	6764	6/11/03	21:56
1,1-Dichloroethane	< 0.00020	mg/l	5960	6/10/03	21:33
1,1-Dichloroethane	< 0.00020	mg/l	5960	6/11/03	11:21
1,1-Dichloroethane	< 0.00020	mg/l	6764	6/11/03	21:56
1,2-Dichloroethane	< 0.00060	mg/l	5960	6/10/03	21:33
1,2-Dichloroethane	< 0.00060	mg/l	5960	6/11/03	11:21
1,2-Dichloroethane	< 0.00060	mg/l	6764	6/11/03	21:56
1,1-Dichloroethene	< 0.00060	mg/l	5960	6/10/03	21:33
1,1-Dichloroethene	< 0.00060	mg/l	5960	6/11/03	11:21
1,1-Dichloroethene	< 0.00060	mg/l	6764	6/11/03	21:56
cis-1,2-Dichloroethene	< 0.00060	mg/l	5960	6/10/03	21:33
cis-1,2-Dichloroethene	< 0.00060	mg/l	5960	6/11/03	11:21
cis-1,2-Dichloroethene	< 0.00060	mg/l	6764	6/11/03	21:56
trans-1,2-Dichloroethene	< 0.00050	mg/l	5960	6/10/03	21:33
trans-1,2-Dichloroethene	< 0.00050	mg/l	5960	6/11/03	11:21
trans-1,2-Dichloroethene	< 0.00050	mg/l	6764	6/11/03	21:56
1,2-Dichloropropane	< 0.00040	mg/l	5960	6/10/03	21:33
1,2-Dichloropropane	< 0.00040	mg/l	5960	6/11/03	11:21
1,2-Dichloropropane	< 0.00040	mg/l	6764	6/11/03	21:56
1,3-Dichloropropane	< 0.00040	mg/l	5960	6/10/03	21:33
1,3-Dichloropropane	< 0.00040	mg/l	5960	6/11/03	11:21
1,3-Dichloropropane	< 0.00040	mg/l	6764	6/11/03	21:56
2,2-Dichloropropane	< 0.00040	mg/l	5960	6/10/03	21:33
2,2-Dichloropropane	< 0.00040	mg/l	5960	6/11/03	11:21
2,2-Dichloropropane	< 0.00040	mg/l	6764	6/11/03	21:56
1,1-Dichloropropene	< 0.00050	mg/l	5960	6/10/03	21:33

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,1-Dichloropropene	< 0.00050	mg/l	5960	6/11/03	11:21
1,1-Dichloropropene	< 0.00050	mg/l	6764	6/11/03	21:56
cis-1,3-Dichloropropene	< 0.00030	mg/l	5960	6/10/03	21:33
cis-1,3-Dichloropropene	< 0.00030	mg/l	5960	6/11/03	11:21
cis-1,3-Dichloropropene	< 0.00030	mg/l	6764	6/11/03	21:56
trans-1,3-Dichloropropene	< 0.00050	mg/l	5960	6/10/03	21:33
trans-1,3-Dichloropropene	< 0.00050	mg/l	5960	6/11/03	11:21
trans-1,3-Dichloropropene	< 0.00050	mg/l	6764	6/11/03	21:56
Ethylbenzene	< 0.0003	mg/l	5960	6/10/03	21:33
Ethylbenzene	< 0.0003	mg/l	5960	6/11/03	11:21
Ethylbenzene	< 0.0003	mg/l	6764	6/11/03	21:56
Hexachlorobutadiene	< 0.00080	mg/l	5960	6/10/03	21:33
Hexachlorobutadiene	< 0.00080	mg/l	5960	6/11/03	11:21
Hexachlorobutadiene	< 0.00080	mg/l	6764	6/11/03	21:56
2-Hexanone	< 0.00420	mg/l	5960	6/10/03	21:33
2-Hexanone	< 0.00420	mg/l	5960	6/11/03	11:21
2-Hexanone	< 0.00420	mg/l	6764	6/11/03	21:56
Isopropylbenzene	< 0.00040	mg/l	5960	6/10/03	21:33
Isopropylbenzene	< 0.00040	mg/l	5960	6/11/03	11:21
Isopropylbenzene	< 0.00040	mg/l	6764	6/11/03	21:56
4-Isopropyltoluene	< 0.00060	mg/l	5960	6/10/03	21:33
4-Isopropyltoluene	< 0.00060	mg/l	5960	6/11/03	11:21
4-Isopropyltoluene	< 0.00060	mg/l	6764	6/11/03	21:56
4-Methyl-2-pentanone	< 0.00490	mg/l	5960	6/10/03	21:33
4-Methyl-2-pentanone	< 0.00490	mg/l	5960	6/11/03	11:21
4-Methyl-2-pentanone	< 0.00490	mg/l	6764	6/11/03	21:56
Methylene chloride	< 0.00240	mg/l	5960	6/10/03	21:33
Methylene chloride	< 0.00240	mg/l	5960	6/11/03	11:21
Methylene chloride	< 0.00240	mg/l	6764	6/11/03	21:56
Naphthalene	< 0.00120	mg/l	5960	6/10/03	21:33
Naphthalene	< 0.00120	mg/l	5960	6/11/03	11:21

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Naphthalene	< 0.00120	mg/l	6764	6/11/03	21:56
n-Propylbenzene	< 0.00030	mg/l	5960	6/10/03	21:33
n-Propylbenzene	< 0.00030	mg/l	5960	6/11/03	11:21
n-Propylbenzene	< 0.00030	mg/l	6764	6/11/03	21:56
Styrene	< 0.00040	mg/l	5960	6/10/03	21:33
Styrene	< 0.00040	mg/l	5960	6/11/03	11:21
Styrene	< 0.00040	mg/l	6764	6/11/03	21:56
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	5960	6/10/03	21:33
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	5960	6/11/03	11:21
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	6764	6/11/03	21:56
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	5960	6/10/03	21:33
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	5960	6/11/03	11:21
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	6764	6/11/03	21:56
Tetrachloroethene	< 0.00040	mg/l	5960	6/10/03	21:33
Tetrachloroethene	< 0.00040	mg/l	5960	6/11/03	11:21
Tetrachloroethene	< 0.00040	mg/l	6764	6/11/03	21:56
Toluene	< 0.0006	mg/l	5960	6/10/03	21:33
Toluene	< 0.0006	mg/l	5960	6/11/03	11:21
Toluene	< 0.0006	mg/l	6764	6/11/03	21:56
1,2,3-Trichlorobenzene	< 0.00100	mg/l	5960	6/10/03	21:33
1,2,3-Trichlorobenzene	< 0.00100	mg/l	5960	6/11/03	11:21
1,2,3-Trichlorobenzene	< 0.00100	mg/l	6764	6/11/03	21:56
1,2,4-Trichlorobenzene	< 0.00060	mg/l	5960	6/10/03	21:33
1,2,4-Trichlorobenzene	< 0.00060	mg/l	5960	6/11/03	11:21
1,2,4-Trichlorobenzene	< 0.00060	mg/l	6764	6/11/03	21:56
1,1,1-Trichloroethane	< 0.00070	mg/l	5960	6/10/03	21:33
1,1,1-Trichloroethane	< 0.00070	mg/l	5960	6/11/03	11:21
1,1,1-Trichloroethane	< 0.00070	mg/l	6764	6/11/03	21:56
1,1,2-Trichloroethane	< 0.00040	mg/l	5960	6/10/03	21:33
1,1,2-Trichloroethane	< 0.00040	mg/l	5960	6/11/03	11:21
1,1,2-Trichloroethane	< 0.00040	mg/l	6764	6/11/03	21:56

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Trichloroethene	< 0.00040	mg/l	5960	6/10/03	21:33
Trichloroethene	< 0.00040	mg/l	5960	6/11/03	11:21
Trichloroethene	< 0.00040	mg/l	6764	6/11/03	21:56
1,2,3-Trichloropropane	< 0.00060	mg/l	5960	6/10/03	21:33
1,2,3-Trichloropropane	< 0.00060	mg/l	5960	6/11/03	11:21
1,2,3-Trichloropropane	< 0.00060	mg/l	6764	6/11/03	21:56
1,2,4-Trimethylbenzene	< 0.0003	mg/l	5960	6/10/03	21:33
1,2,4-Trimethylbenzene	< 0.0003	mg/l	5960	6/11/03	11:21
1,2,4-Trimethylbenzene	< 0.0003	mg/l	6764	6/11/03	21:56
1,3,5-Trimethylbenzene	< 0.00100	mg/l	5960	6/10/03	21:33
1,3,5-Trimethylbenzene	< 0.00100	mg/l	5960	6/11/03	11:21
1,3,5-Trimethylbenzene	< 0.00100	mg/l	6764	6/11/03	21:56
Vinyl chloride	< 0.00050	mg/l	5960	6/10/03	21:33
Vinyl chloride	< 0.00050	mg/l	5960	6/11/03	11:21
Vinyl chloride	< 0.00050	mg/l	6764	6/11/03	21:56
Xylenes (Total)	< 0.0009	mg/l	5960	6/10/03	21:33
Xylenes (Total)	< 0.0009	mg/l	5960	6/11/03	11:21
Xylenes (Total)	< 0.0009	mg/l	6764	6/11/03	21:56
Bromodichloromethane	< 0.00030	mg/l	5960	6/10/03	21:33
Bromodichloromethane	< 0.00030	mg/l	5960	6/11/03	11:21
Bromodichloromethane	< 0.00030	mg/l	6764	6/11/03	21:56
Trichlorofluoromethane	< 0.00040	mg/l	5960	6/10/03	21:33
Trichlorofluoromethane	< 0.00040	mg/l	5960	6/11/03	11:21
Trichlorofluoromethane	< 0.00040	mg/l	6764	6/11/03	21:56
VOA Surr 1,2-DCA-d4	95.	% Rec	5960	6/10/03	21:33
VOA Surr 1,2-DCA-d4	93.	% Rec	5960	6/11/03	11:21
VOA Surr 1,2-DCA-d4	81.	% Rec	6764	6/11/03	21:56
VOA Surr Toluene-d8	96.	% Rec	5960	6/10/03	21:33
VOA Surr Toluene-d8	95.	% Rec	5960	6/11/03	11:21
VOA Surr Toluene-d8	92.	% Rec	6764	6/11/03	21:56
VOA Surr, 4-BFB	104.	% Rec	5960	6/10/03	21:33

Project QC continued . . .

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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
VOA Surr, 4-BFB	103.	% Rec	5960	6/11/03	11:21
VOA Surr, 4-BFB	110.	% Rec	6764	6/11/03	21:56
VOA Surr, DBFM	98.	% Rec	5960	6/10/03	21:33
VOA Surr, DBFM	98.	% Rec	5960	6/11/03	11:21
VOA Surr, DBFM	93.	% Rec	6764	6/11/03	21:56

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
EXTRACTABLE PARAMETERS					
Acenaphthene	< 0.00010	mg/l	8304	6/17/03	17:33
Acenaphthylene	< 0.00010	mg/l	8304	6/17/03	17:33
Anthracene	< 0.00010	mg/l	8304	6/17/03	17:33
Benzo(a)anthracene	< 0.00010	mg/l	8304	6/17/03	17:33
Benzo(a)pyrene	< 0.00010	mg/l	8304	6/17/03	17:33
Benzo(b)fluoranthene	< 0.00010	mg/l	8304	6/17/03	17:33
Benzo(g,h,i)perylene	< 0.00010	mg/l	8304	6/17/03	17:33
Benzo(k)fluoranthene	< 0.00010	mg/l	8304	6/17/03	17:33
Chrysene	< 0.00010	mg/l	8304	6/17/03	17:33
Dibenz(a,h)anthracene	< 0.00010	mg/l	8304	6/17/03	17:33
Fluoranthene	< 0.00010	mg/l	8304	6/17/03	17:33
Fluorene	< 0.00010	mg/l	8304	6/17/03	17:33
Indeno(1,2,3-cd)pyrene	< 0.00010	mg/l	8304	6/17/03	17:33
2-Methylnaphthalene	< 0.00010	mg/l	8304	6/17/03	17:33
Naphthalene	< 0.00010	mg/l	8304	6/17/03	17:33
Phenanthrene	< 0.00010	mg/l	8304	6/17/03	17:33
Pyrene	< 0.00010	mg/l	8304	6/17/03	17:33
1-Methylnaphthalene	< 0.00010	mg/l	8304	6/17/03	17:33

Project QC continued . . .

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BNA Surr-Nitrobenzene-d5	90.	% Rec	8304	6/17/03	17:33
BNA Surr-2-Fluorobiphenyl	94.	% Rec	8304	6/17/03	17:33
BNA Surr-Terphenyl-d14	133.	% Rec	8304	6/17/03	17:33

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 335067

APPENDIX C

2nd Quarter 2003 Groundwater Sampling Logs

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2:	Weather: Cloudy
Sampling ID: 04-41001/5:CEF-293-09:6/6/03		
Notes:		

Well Information

Well ID: **CEF-293-09**	Sampling Date: **6/6/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 77.36	Northing: 0	Easting: 0
Static Depth to Water (ft): 7.85	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 11.00
pH Meter:	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 17:40	Purge End: 18:03	Total Volume Purged (gal): 0.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
17:45	8.36	0.50	0.00	3.14	23.42	470.0	5.98	12.0	41.80	brown	none
17:47	8.40	1.00	0.00	1.83	23.21	474.0	5.94	7.0	43.10		
17:48	8.25	1.50	0.00	1.13	23.21	474.0	5.93	2.0	30.80		
17:51	8.10	2.00	0.00	0.66	23.31	475.0	5.94	-1.0	16.20		
17:54	8.30	2.50	0.00	0.31	23.34	474.0	5.97	-8.0	9.98		
17:56	8.30	3.00	0.50	0.13	23.21	474.0	5.99	-12.0	8.56		
17:58	8.20	3.50	0.25	0.00	23.21	473.0	5.99	-15.0	6.47		
18:00	8.20	4.00	0.25	0.00	23.23	473.0	6.00	-21.0	5.16		
18:03	8.20	4.50	0.25	0.00	23.25	473.0	6.00	-24.0	4.15		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	6/6/2003	DO (mg/L):	0.00	DO:	0.00	Sulfate:	0.00
Sample Start Time:	18:03	Temp (*C):	23.26	CO2:	0.00	Sulfide:	0.00
Sample End Time:	18:06	SEC (uS/cm):	472.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	6.00	Ferrous Iron:	0.00		
Duplicate:	☐	ORP (mV):	-26.00	H2S:	0.00		
		Turb (NTU):	0.00	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2:	Weather: Cloudy
Sampling ID: 04-41001/5:CEF-293-22:6/7/03		
Notes:		

Well Information

Well ID: **CEF-293-22**	Sampling Date: **6/7/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 75.95	Northing: 0	Easting: 0
Static Depth to Water (ft): 7.00	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 10.50
pH Meter:	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 08:39	Purge End: 09:07	Total Volume Purged (gal): 0.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
08:41	7.40	0.50	0.00	1.39	25.29	557.0	5.69	8.0	411.00	brown	none
08:44	7.44	0.75	0.08	0.98	25.47	551.0	5.70	4.0	404.00		
08:46	7.56	1.00	0.00	0.85	25.58	540.0	5.71	6.0	377.00		
08:50	7.40	1.25	0.08	0.71	25.71	530.0	5.72	5.0	332.00		
08:52	7.41	1.50	0.00	0.61	25.81	517.0	5.72	2.0	305.00		
08:55	7.46	1.75	0.00	0.54	25.86	506.0	5.72	0.0	252.00		
08:57	7.51	2.00	0.00	0.46	25.94	488.0	5.72	-4.0	223.00		
08:58	7.41	2.25	0.00	0.40	25.94	476.0	5.71	-6.0	190.00		
09:00	7.46	2.50	0.00	0.33	25.94	463.0	5.70	-10.0	156.00		
09:03	7.50	3.00	0.25	0.26	25.95	454.0	5.71	-13.0	145.00		
09:05	7.45	3.50	0.25	0.19	25.95	443.0	5.72	-15.0	148.00		
09:07	7.51	4.00	0.00	0.15	25.93	434.0	5.72	-17.0	150.00		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	6/7/2003	DO (mg/L):	0.12	DO:	0.00	Sulfate:	0.00
Sample Start Time:	09:07	Temp (*C):	25.92	CO2:	0.00	Sulfide:	0.00
Sample End Time:	09:09	SEC (uS/cm):	428.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	5.72	Ferrous Iron:	0.00		
Duplicate:	☐	ORP (mV):	-20.00	H2S:	0.00		
		Turb (NTU):	0.00	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2:	Weather: Cloudy
Sampling ID: 04-41001/5:VEW-02:6/7/03		
Notes:		

Well Information

Well ID: **VEW-02**	Sampling Date: **6/7/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 75.86	Northing: 0	Easting: 0
Static Depth to Water (ft): 6.50	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 10.50
pH Meter:	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 12:05	Purge End: 12:23	Total Volume Purged (gal): 0.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
12:11	7.10	0.25	0.00	1.32	23.28	136.0	6.08	-96.0	38.20	clear	slight HC
12:13	6.80	0.50	0.00	0.71	23.30	135.0	6.11	-98.0	23.60		
12:14	7.00	0.75	0.00	0.43	23.22	136.0	6.12	-99.0	15.80		
12:16	7.10	1.25	0.00	0.04	23.03	135.0	6.12	-98.0	10.90		
12:19	7.20	1.75	0.00	0.00	22.92	134.0	6.12	-80.0	7.37		
12:21	7.20	2.25	0.25	0.00	22.91	133.0	6.10	-77.0	6.41		
12:23	7.22	2.75	0.25	0.00	22.88	133.0	6.11	-87.0	5.87		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	6/7/2003	DO (mg/L):	0.00	DO:	0.00	Sulfate:	0.00
Sample Start Time:	12:23	Temp (*C):	22.87	CO2:	0.00	Sulfide:	0.00
Sample End Time:	12:26	SEC (uS/cm):	132.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	6.09	Ferrous Iron:	0.00		
Duplicate:	☐	ORP (mV):	-86.00	H2S:	0.00		
		Turb (NTU):	4.88	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2:	Weather: Sunny
Sampling ID: 04-41001/5:VEW-03:6/6/03		
Notes: "Purging restarted due to pump difficulties. Purge started at 3rd data entry."		

Well Information

Well ID: **VEW-03**	Sampling Date: **6/6/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 75.28	Northing: 0	Easting: 0
Static Depth to Water (ft): 6.10	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 11.00
pH Meter:	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 14:50	Purge End: 17:12	Total Volume Purged (gal): 0.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
14:58	6.15	0.50	0.00	4.71	24.75	161.0	5.60	40.0	307.00	brown	none
15:02	6.10	1.50	0.00	2.94	25.23	154.0	5.66	37.0	197.00		
15:04	6.20	2.50	0.00	2.32	24.34	160.0	5.64	40.0	58.30		
16:41	6.10	1.00	0.00	3.89	25.23	172.0	5.66	49.0	781.00		
16:45	6.10	1.25	0.00	2.19	25.61	167.0	5.63	46.0	278.00		
16:47	6.10	1.50	0.00	1.78	25.58	168.0	5.62	46.0	195.00		
16:50	6.10	1.75	0.00	1.30	25.41	167.0	5.61	44.0	166.00		
16:52	6.10	2.00	0.25	1.13	25.42	165.0	5.60	44.0	150.00		
16:54	6.10	2.25	0.00	0.87	25.49	165.0	5.61	42.0	129.00		
16:57	6.15	2.75	0.25	0.75	25.16	164.0	5.61	43.0	109.00		
17:00	6.10	3.50	0.25	0.63	25.11	162.0	5.60	42.0	79.90		
17:03	6.10	4.00	0.00	0.55	24.99	161.0	5.60	41.0	49.40		
17:06	6.10	4.50	0.25	0.48	24.99	160.0	5.59	38.0	32.40		
17:08	6.10	5.00	0.25	0.42	25.21	158.0	5.58	35.0	20.90		
17:12	6.10	5.50	0.16	0.37	25.11	159.0	5.61	31.0	17.70		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	6/6/2003	DO (mg/L):	0.34	DO:	0.00	Sulfate:	0.00
Sample Start Time:	17:12	Temp (*C):	25.08	CO2:	0.00	Sulfide:	0.00
Sample End Time:	17:14	SEC (uS/cm):	159.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	5.61	Ferrous Iron:	0.00		
Duplicate:	☐	ORP (mV):	30.00	H2S:	0.00		
		Turb (NTU):	0.00	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2:	Weather: Cloudy
Sampling ID: 04-41001/5:VEW-04:6/7/03		
Notes:		

Well Information

Well ID: **VEW-04**	Sampling Date: **6/7/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 75.54	Northing: 0	Easting: 0
Static Depth to Water (ft): 6.50	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 10.00
pH Meter:	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 09:26	Purge End: 10:04	Total Volume Purged (gal): 0.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
09:36	6.57	0.50	0.00	2.22	25.27	119.0	5.56	-27.0	1,000.00		
09:39	6.65	1.00	0.00	1.27	25.15	116.0	5.58	-28.0	1,000.00	brown	none
09:40	6.65	1.50	0.00	0.79	25.03	114.0	5.59	-30.0	558.00		
09:42	6.65	2.00	0.00	0.48	24.99	113.0	5.59	-31.0	308.00		
09:43	6.65	2.50	0.00	0.29	24.97	112.0	5.59	-32.0	169.00		
09:46	6.66	3.00	0.00	0.14	25.05	111.0	5.58	-33.0	84.80		
09:48	6.65	3.50	0.00	0.05	25.07	111.0	5.58	-34.0	46.70		
09:51	6.60	4.00	0.00	0.00	25.14	111.0	5.58	-35.0	26.60		
09:54	6.60	4.50	0.00	0.00	25.12	111.0	5.57	-38.0	15.80		
09:57	6.60	5.00	0.00	0.00	25.11	110.0	5.59	-41.0	11.50		
09:59	6.60	5.50	0.25	0.00	25.11	110.0	5.59	-42.0	8.64		
10:01	6.60	6.00	0.25	0.00	25.09	109.0	5.60	-42.0	6.62		
10:04	6.60	6.50	0.25	0.00	25.10	109.0	5.59	-40.0	5.48		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	6/7/2003	DO (mg/L):	0.00	DO:	0.00	Sulfate:	0.00
Sample Start Time:	10:04	Temp (*C):	25.12	CO2:	0.00	Sulfide:	0.00
Sample End Time:	10:06	SEC (uS/cm):	109.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	5.60	Ferrous Iron:	0.00		
Duplicate:	☐	ORP (mV):	-41.00	H2S:	0.00		
		Turb (NTU):	0.00	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2:	Weather: Rain
Sampling ID: 04-41001/5:VEW-05:6/6/03		
Notes:		

Well Information

Well ID: **VEW-05**	Sampling Date: **6/6/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 74.63	Northing: 0	Easting: 0
Static Depth to Water (ft): 6.75	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 8.50
pH Meter:	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 18:40	Purge End: 19:10	Total Volume Purged (gal): 0.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
18:42	6.80	0.50	0.00	4.86	25.24	124.0	5.52	57.0	1,000.00	brown	none
18:44	5.75	1.00	0.00	2.78	25.30	125.0	5.28	50.0	584.00		
18:47	5.70	1.50	0.00	1.39	25.16	126.0	5.15	42.0	356.00		
18:53	5.70	2.00	0.00	0.75	25.30	126.0	5.07	28.0	185.00		
18:55	5.75	2.50	0.00	0.56	25.22	126.0	5.14	25.0	129.00		
18:57	5.75	3.00	0.00	0.43	24.86	125.0	5.14	28.0	66.30		
18:59	5.78	3.50	0.00	0.34	24.78	124.0	5.12	35.0	23.80		
19:00	5.80	4.00	0.00	0.28	24.67	123.0	5.12	33.0	16.40		
19:02	5.80	4.50	0.50	0.21	24.58	122.0	5.13	47.0	11.30		
19:05	5.80	5.00	0.00	0.14	24.57	122.0	5.12	42.0	7.63		
19:06	5.78	5.50	0.00	0.07	24.58	122.0	5.13	41.0	5.39		
19:08	5.80	6.00	0.00	0.06	24.62	122.0	5.12	40.0	3.74		
19:10	5.70	6.50	0.00	0.03	24.66	122.0	5.11	41.0	3.32		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	6/6/2003	DO (mg/L):	0.02	DO:	0.00	Sulfate:	0.00
Sample Start Time:	19:10	Temp (*C):	24.70	CO2:	0.00	Sulfide:	0.00
Sample End Time:	19:12	SEC (uS/cm):	122.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	5.10	Ferrous Iron:	0.00		
Duplicate:	☐	ORP (mV):	40.00	H2S:	0.00		
		Turb (NTU):	0.00	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials

GROUNDWATER SAMPLING LOG

TERRAINE, inc.
ENVIRONMENTAL SERVICES

Project Information

Project No: 04-41001/5	Project Name: Day Tank 1 - Cecil Field LTM/RAO	
Technician 1: Karen Baer	Technician 2:	Weather: Cloudy
Sampling ID: 04-41001/5:VEW-07:6/7/03		
Notes:		

Well Information

Well ID: **VEW-07**	Sampling Date: **6/7/2003**	
Well Diam (in): 0.0	Total Well Depth (ft): 0.00	Well Screen Interval (ft):
TOC Elevation (ft msl): 76.44	Northing: 0	Easting: 0
Static Depth to Water (ft): 6.97	Well Capacity (gal): 0.00	

Purge Setup

Purge Method: Nomad Submersible	Tubing Material: PPE		Pump Set at (ft): 10.50
pH Meter:	Cond. Meter: Horiba U-22	DO Meter: Horiba U-22	Turb. Meter: Hach 2100P
Purge Start: 10:40	Purge End: 11:17	Total Volume Purged (gal): 0.00	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Color	Odor
10:44	7.20	0.50	0.00	2.66	22.22	136.0	5.62	-20.0	1,000.00	brown	slight HC
10:46	7.20	1.00	0.00	1.16	22.05	134.0	5.66	-26.0	1,000.00		
10:47	7.20	1.50	0.00	0.83	22.04	134.0	5.65	-28.0	1,000.00		
10:49	7.10	2.00	0.00	0.48	22.08	133.0	5.67	-29.0	1,000.00		
10:52	7.04	2.50	0.00	0.14	22.41	132.0	5.67	-31.0	693.00		
10:55	7.20	3.00	0.00	0.00	22.15	132.0	5.66	-32.0	657.00		
10:57	7.15	3.50	0.00	0.00	22.07	132.0	5.68	-31.0	559.00		
11:00	7.15	4.50	0.00	0.00	22.07	132.0	5.68	-31.0	399.00		
11:03	7.20	5.00	0.00	0.00	22.05	134.0	5.68	-31.0	329.00		
11:05	7.20	5.50	0.00	0.00	22.04	134.0	5.69	-31.0	293.00		
11:07	7.20	6.50	0.00	0.00	22.03	134.0	5.69	-32.0	263.00		
11:08	7.20	7.00	0.01	0.00	22.00	134.0	5.70	-33.0	226.00		
11:10	7.20	7.50	0.01	0.00	22.00	134.0	5.71	-33.0	201.00		
11:12	7.20	7.50	0.00	0.00	21.99	134.0	5.71	-34.0	179.00		
11:15	7.20	7.50	0.00	0.00	22.00	134.0	5.71	-35.0	148.00		
11:17	7.20	8.00	0.01	0.00	22.00	134.0	5.72	-35.0	132.00		

Sampling Data

Sample Information		Final Purge Readings		Field Test Kit Readings (mg/L)			
Sample Date:	6/7/2003	DO (mg/L):	0.00	DO:	0.00	Sulfate:	0.00
Sample Start Time:	11:17	Temp (*C):	21.95	CO2:	0.00	Sulfide:	0.00
Sample End Time:	11:20	SEC (uS/cm):	134.00	Alkalinity:	0.00		
Field Filtered:	☐	pH:	5.70	Ferrous Iron:	0.00		
Duplicate:	☐	ORP (mV):	-36.00	H2S:	0.00		
		Turb (NTU):	0.00	Manganese:	0.00		

Lab Analyses/Methods:	Technician Initials

APPENDIX D

2nd Quarter 2003 Site Visit Reports

OPERATIONS & MAINTENANCE SITE VISIT REPORT
CONTRACT NO. N62467-02-G-0352, CTO NO. 0001, TERRAINE PROJ. NO. 04-40001
DAY TANK 1 BIOSPARGE/SVE SYSTEM
NAVAL AIR STATION, CECIL FIELD, FLORIDA

Date / Time: 4-3-03 Tech 1: Robbie Beale Tech 2: _____

X Weekly Site Visit: 1.0, 2.0, 3.0, and 4.1 Monthly Site Visit: 1.0, 2.0, 3.0, 4.0, 5.0, and 6.0

1.0

System	Status	Hour Meter	Time	
Vapor Extraction System	Arrive: (Up) / Down	23198	900	<-- Circle Status
	Depart: (Up) / Down	23199	930	<-- Circle Status
Biosparge System	Arrive: (Up) / Down	23901.2	900	<-- Circle Status
	Depart: (Up) / Down	23901.5	930	<-- Circle Status
Electric Service Meter Reading:	2.30		900	

2.0 If either system was down on arrival/departure, note suspected reason:

N/A

3.0 Note measures performed to fix problem(s)/maintenance performed:

N/A

4.0 Biosparge System

4.1 Treatment Building

	Tank Pressure	Line Pressure	Line Flow	Comments
Design Pressure (psi)	45	30	45	
Actual Pressure (psi)	60	25		Adjusted Tank PSI to 45
Design Flowrate (cfm)	10	10	10	
Actual Flowrate (cfm)			N/A	

4.2 Biosparge Wells

	BP-01	BP-02	BP-03	BP-04	BP-05	BP-06	BP-07	BP-08
Actual Pressure (psi)								
Actual Flow (acfm)								

	BP-09	BP-10	BP-11	BP-12	BP-13	BP-14	BP-15	BP-16
Actual Pressure (psi)								
Actual Flow (acfm)								

5.0 Soil Vapor Extraction System (SVE Wells)

	VEW-01	VEW-02	VEW-03	VEW-04	VEW-05	VEW-06	VEW-07	VEW-08
Actual Vacuum (in. H2O)								
Actual Flowrate (cfm)								

6.0 Air Sampling

Sample Location/ID	Date	Time	Parameters
DT1-Effluent			TO-15

Signature [signature] Signature _____

OPERATIONS & MAINTENANCE SITE VISIT REPORT
CONTRACT NO. N62467-02-G-0352, CTO NO. 0001, TERRAINE PROJ. NO. 04-40001
DAY TANK 1 BIOSPARGE/SVE SYSTEM
NAVAL AIR STATION, CECIL FIELD, FLORIDA

Date / Time: 4-10-03 Tech 1: Robbie Bendle Tech 2: _____

Weekly Site Visit: 1.0, 2.0, 3.0, and 4.1 Monthly Site Visit: 1.0, 2.0, 3.0, 4.0, 5.0, and 6.0

1.0

System	Status	Hour Meter	Time	
Vapor Extraction System	Arrive: (Up) / Down	24317	900	← Circle Status
	Depart: (Up) / Down	24315	1000	← Circle Status
Biosparge System	Arrive: (Up) / Down	24520.1	900	← Circle Status
	Depart: (Up) / Down	24521.1	1000	← Circle Status
Electric Service Meter Reading:	- 6.40 -		1000	

2.0 If either system was down on arrival/departure, note suspected reason:

N/A

3.0 Note measures performed to fix problem(s)/maintenance performed:

N/A

4.0 Biosparge System

4.1 Treatment Building

	Tank Pressure	Line Pressure	Line Flow	Comments
Design Pressure (psi)	45	30	45	
Actual Pressure (psi)	60	30		Adjusted Tank PST to 45
Design Flowrate (cfm)	10	10	10	
Actual Flowrate (cfm)			7.16	

4.2 Biosparge Wells

	BP-01	BP-02	BP-03	BP-04	BP-05	BP-06	BP-07	BP-08
Actual Pressure (psi)	18	18	18	18	16	16	16	16
Actual Flow (acfm)	120	120	120	120	110	110	110	110

	BP-09	BP-10	BP-11	BP-12	BP-13	BP-14	BP-15	BP-16
Actual Pressure (psi)	16	18	18				16	16
Actual Flow (acfm)	110	115	115				110	110

5.0 Soil Vapor Extraction System (SVE Wells)

	VEW-01	VEW-02	VEW-03	VEW-04	VEW-05	VEW-06	VEW-07	VEW-08
Actual Vacuum (in. H2O)	-20	-20	-20	-18	-20	-20		-20
Actual Flowrate (cfm)	16	16	16	14	16	18		18

6.0 Air Sampling

Sample Location/ID	Date	Time	Parameters
DT1-Effluent			TO-15

Signature [signature] Signature _____

OPERATIONS & MAINTENANCE SITE VISIT REPORT
CONTRACT NO. N62467-02-G-0352, CTO NO. 0001, TERRAINE PROJ. NO. 04-40001
DAY TANK 1 BIOSPARGE/SVE SYSTEM
NAVAL AIR STATION, CECIL FIELD, FLORIDA

Date / Time: 4-16-03 Tech 1: Rattic Bendle Tech 2: _____

Weekly Site Visit: 1.0, 2.0, 3.0, and 4.1 Monthly Site Visit: 1.0, 2.0, 3.0, 4.0, 5.0, and 6.0

1.0

System	Status	Hour Meter	Time	
Vapor Extraction System	Arrive: Up / Down	23858	1000	← Circle Status
	Depart: Up / Down	23858	1050	← Circle Status
Biosparge System	Arrive: (Up) / Down	23829	1000	← Circle Status
	Depart: (Up) / Down	23830.4	1050	← Circle Status
Electric Service Meter Reading:	- 2.31 -	96244	1000	

2.0 If either system was down on arrival/departure, note suspected reason:

Found defective solenoid valve. Need new solenoid valve. Unit is up temporarily until new solenoid valve is installed.

3.0 Note measures performed to fix problem(s)/maintenance performed:

4.0 Biosparge System

4.1 Treatment Building

	Tank Pressure	Line Pressure	Line Flow	Comments
Design Pressure (psi)	45	30	45	
Actual Pressure (psi)	70	30		Adjust tank PSI to 45
Design Flowrate (cfm)	10	10	10	
Actual Flowrate (cfm)			7 to 8	

4.2 Biosparge Wells

	BP-01	BP-02	BP-03	BP-04	BP-05	BP-06	BP-07	BP-08
Actual Pressure (psi)								
Actual Flow (acfm)								

	BP-09	BP-10	BP-11	BP-12	BP-13	BP-14	BP-15	BP-16
Actual Pressure (psi)								
Actual Flow (acfm)								

5.0 Soil Vapor Extraction System (SVE Wells)

	VEW-01	VEW-02	VEW-03	VEW-04	VEW-05	VEW-06	VEW-07	VEW-08
Actual Vacuum (in. H2O)								
Actual Flowrate (cfm)								

6.0 Air Sampling

Sample Location/ID	Date	Time	Parameters
DT1 Effluent	4-16-03		TO-15

Signature _____ Signature _____

OPERATIONS & MAINTENANCE SITE VISIT REPORT
CONTRACT NO. N62467-02-G-0352, CTO NO. 0001, TERRAINE PROJ. NO. 04-40001
DAY TANK 1 BIOSPARGE/SVE SYSTEM
NAVAL AIR STATION, CECIL FIELD, FLORIDA

Date / Time: 4-24-03 Tech 1: Robbie Beadle Tech 2: _____

Weekly Site Visit: 1.0, 2.0, 3.0, and 4.1 Monthly Site Visit: 1.0, 2.0, 3.0, 4.0, 5.0, and 6.0

1.0

System		Status	Hour Meter	Time	
Vapor Extraction System	Arrive:	Up / Down	23315	11:00	<-- Circle Status
	Depart:	Up / Down	23316	12:00	<-- Circle Status
Biosparge System	Arrive:	Up / Down	238229	11:00	<-- Circle Status
	Depart:	Up / Down	238229	12:00	<-- Circle Status
Electric Service Meter Reading:	-- 7.07 --		86682	11:00	

2.0 If either system was down on arrival/departure, note suspected reason:

System down due to defective solinoid valve. Installed new solinoid valve. Powered up system. Checked to make sure all running properly.

3.0 Note measures performed to fix problem(s)/maintenance performed:

4.0 Biosparge System

4.1 Treatment Building

	Tank Pressure	Line Pressure	Line Flow	Comments
Design Pressure (psi)	45	30	45	
Actual Pressure (psi)	60	30		
Design Flowrate (cfm)	10	10	10	
Actual Flowrate (cfm)			15	

4.2 Biosparge Wells

	BP-01	BP-02	BP-03	BP-04	BP-05	BP-06	BP-07	BP-08
Actual Pressure (psi)								
Actual Flow (acfm)								

	BP-09	BP-10	BP-11	BP-12	BP-13	BP-14	BP-15	BP-16
Actual Pressure (psi)								
Actual Flow (acfm)								

5.0 Soil Vapor Extraction System (SVE Wells)

	VEW-01	VEW-02	VEW-03	VEW-04	VEW-05	VEW-06	VEW-07	VEW-08
Actual Vacuum (in. H2O)								
Actual Flowrate (cfm)								

6.0 Air Sampling

Sample Location/ID	Date	Time	Parameters
DT1-Effluent			TO-15

Signature _____ Signature _____

OPERATIONS & MAINTENANCE SITE VISIT REPORT
CONTRACT NO. N62467-02-G-0352, CTO NO. 0001, TERRAINE PROJ. NO. 04-40001
DAY TANK 1 BIOSPARGE/SVE SYSTEM
NAVAL AIR STATION, CECIL FIELD, FLORIDA

Date / Time: 5-1-03 Tech 1: Robbie Beach Tech 2: _____

X Weekly Site Visit: 1.0, 2.0, 3.0, and 4.1 Monthly Site Visit: 1.0, 2.0, 3.0, 4.0, 5.0, and 6.0

1.0 System	Status	Hour Meter	Time	
Vapor Extraction System	Arrive: (Up) / Down	23941	10:30	<-- Circle Status
	Depart: (Up) / Down	23941	11:00	<-- Circle Status
Biosparge System	Arrive: (Up) / Down	23880.0	10:30	<-- Circle Status
	Depart: (Up) / Down	23880.3	11:00	<-- Circle Status
Electric Service Meter Reading:	--7.25--	86904	10:30	

2.0 If either system was down on arrival/departure, note suspected reason:

N/P

3.0 Note measures performed to fix problem(s)/maintenance performed:

PLC OK

4.0 Biosparge System

4.1 Treatment Building

	Tank Pressure	Line Pressure	Line Flow	Comments
Design Pressure (psi)	45	30	45	
Actual Pressure (psi)	60	30		
Design Flowrate (cfm)	10	10	10	
Actual Flowrate (cfm)			7/4	

4.2 Biosparge Wells

	BP-01	BP-02	BP-03	BP-04	BP-05	BP-06	BP-07	BP-08
Actual Pressure (psi)								
Actual Flow (acfm)								

	BP-09	BP-10	BP-11	BP-12	BP-13	BP-14	BP-15	BP-16
Actual Pressure (psi)								
Actual Flow (acfm)								

5.0 Soil Vapor Extraction System (SVE Wells)

	VEW-01	VEW-02	VEW-03	VEW-04	VEW-05	VEW-06	VEW-07	VEW-08
Actual Vacuum (in. H2O)								
Actual Flowrate (cfm)								

6.0 Air Sampling

Sample Location/ID	Date	Time	Parameters
DT1-Effluent			TO-15

Signature _____ Signature _____

OPERATIONS & MAINTENANCE SITE VISIT REPORT
CONTRACT NO. N62467-02-G-0352, CTO NO. 0001, TERRAINE PROJ. NO. 04-40001
DAY TANK 1 BIOSPARGE/SVE SYSTEM
NAVAL AIR STATION, CECIL FIELD, FLORIDA

Date / Time: 5-12-03 Tech 1: Robbie Bendle Tech 2: _____

Weekly Site Visit: 1.0, 2.0, 3.0, and 4.1 Monthly Site Visit: 1.0, 2.0, 3.0, 4.0, 5.0, and 6.0

1.0

System	Status	Hour Meter	Time	
Vapor Extraction System	Arrive: Up / Down	24049	11:00	<-- Circle Status
	Depart: Up / Down	24049	11:30	<-- Circle Status
Biosparge System	Arrive: Up / Down	23879.9	11:00	<-- Circle Status
	Depart: Up / Down	23879.9	11:30	<-- Circle Status
Electric Service Meter Reading:	- 7.03 -	87444	11:00	

2.0 If either system was down on arrival/departure, note suspected reason:

Found alarm panel tripped. Reset alarm panel & tested

RZ 04

3.0 Note measures performed to fix problem(s)/maintenance performed:

4.0 Biosparge System

4.1 Treatment Building

	Tank Pressure	Line Pressure	Line Flow	Comments
Design Pressure (psi)	45	30	45	
Actual Pressure (psi)	60	20		
Design Flowrate (cfm)	10	10	10	
Actual Flowrate (cfm)			2/6	

4.2 Biosparge Wells

	BP-01	BP-02	BP-03	BP-04	BP-05	BP-06	BP-07	BP-08
Actual Pressure (psi)								
Actual Flow (acfm)								

	BP-09	BP-10	BP-11	BP-12	BP-13	BP-14	BP-15	BP-16
Actual Pressure (psi)								
Actual Flow (acfm)								

5.0 Soil Vapor Extraction System (SVE Wells)

	VEW-01	VEW-02	VEW-03	VEW-04	VEW-05	VEW-06	VEW-07	VEW-08
Actual Vacuum (in. H2O)								
Actual Flowrate (cfm)								

6.0 Air Sampling

Sample Location/ID	Date	Time	Parameters
DT1-Effluent			TO-15

Signature _____ Signature _____

OPERATIONS & MAINTENANCE SITE VISIT REPORT
CONTRACT NO. N62467-02-G-0352, CTO NO. 0001, TERRAINE PROJ. NO. 04-40001
DAY TANK 1 BIOSPARGE/SVE SYSTEM
NAVAL AIR STATION, CECIL FIELD, FLORIDA

Date / Time: 5-16-03 Tech 1: Ritchie Benedle Tech 2: _____

Weekly Site Visit: 1.0, 2.0, 3.0, and 4.1 Monthly Site Visit: 1.0, 2.0, 3.0, 4.0, 5.0, and 6.0

1.0

System	Status	Hour Meter	Time	
Vapor Extraction System	Arrive: Up / Down	24649	9:00	<-- Circle Status
	Depart: Up / Down	24649	9:30	<-- Circle Status
Biosparge System	Arrive: Up / Down	23880.0	9:00	<-- Circle Status
	Depart: Up / Down	23880.5	9:30	<-- Circle Status
Electric Service Meter Reading:	-- 7.03 --	87480	9:00	

2.0 If either system was down on arrival/departure, note suspected reason:

Found compressor in dark mode - Reset & powered up -- OK

3.0 Note measures performed to fix problem(s)/maintenance performed:

4.0 Biosparge System

4.1 Treatment Building

	Tank Pressure	Line Pressure	Line Flow	Comments
Design Pressure (psi)	45	30	45	
Actual Pressure (psi)	60	30		
Design Flowrate (cfm)	10	10	10	
Actual Flowrate (cfm)			3.16	

4.2 Biosparge Wells

	BP-01	BP-02	BP-03	BP-04	BP-05	BP-06	BP-07	BP-08
Actual Pressure (psi)								
Actual Flow (acfm)								

	BP-09	BP-10	BP-11	BP-12	BP-13	BP-14	BP-15	BP-16
Actual Pressure (psi)								
Actual Flow (acfm)								

5.0 Soil Vapor Extraction System (SVE Wells)

	VEW-01	VEW-02	VEW-03	VEW-04	VEW-05	VEW-06	VEW-07	VEW-08
Actual Vacuum (in. H2O)								
Actual Flowrate (cfm)								

6.0 Air Sampling

Sample Location/ID	Date	Time	Parameters
DT1-Effluent	5-16-03	9:00	TO-15

Signature _____ Signature _____

OPERATIONS & MAINTENANCE SITE VISIT REPORT
CONTRACT NO. N62467-02-G-0352, CTO NO. 0001, TERRAINE PROJ. NO. 04-40001
DAY TANK 1 BIOSPARGE/SVE SYSTEM
NAVAL AIR STATION, CECIL FIELD, FLORIDA

Date / Time: 5-21-03 Tech 1: Robert Bendle Tech 2: _____

X Weekly Site Visit: 1.0, 2.0, 3.0, and 4.1 Monthly Site Visit: 1.0, 2.0, 3.0, 4.0, 5.0, and 6.0

1.0

System	Status	Hour Meter	Time	
Vapor Extraction System	Arrive: Up / Down	24088	9:00	<-- Circle Status
	Depart: Up / Down	24088	9:30	<-- Circle Status
Biosparge System	Arrive: Up / Down	23880.1	9:00	<-- Circle Status
	Depart: Up / Down	23880.4	9:30	<-- Circle Status
Electric Service Meter Reading:	- 8588 -	7.03	9:00	

2.0 If either system was down on arrival/departure, note suspected reason:

3.0 Note measures performed to fix problem(s)/maintenance performed:

4.0 Biosparge System

4.1 Treatment Building

	Tank Pressure	Line Pressure	Line Flow	Comments
Design Pressure (psi)	45	30	45	
Actual Pressure (psi)	60	30		
Design Flowrate (cfm)	10	10	10	
Actual Flowrate (cfm)			16	

4.2 Biosparge Wells

	BP-01	BP-02	BP-03	BP-04	BP-05	BP-06	BP-07	BP-08
Actual Pressure (psi)								
Actual Flow (acfm)								

	BP-09	BP-10	BP-11	BP-12	BP-13	BP-14	BP-15	BP-16
Actual Pressure (psi)								
Actual Flow (acfm)								

5.0 Soil Vapor Extraction System (SVE Wells)

	VEW-01	VEW-02	VEW-03	VEW-04	VEW-05	VEW-06	VEW-07	VEW-08
Actual Vacuum (in. H2O)								
Actual Flowrate (cfm)								

6.0 Air Sampling

Sample Location/ID	Date	Time	Parameters
DT1-Effluent			TO-15

Signature _____ Signature _____

OPERATIONS & MAINTENANCE SITE VISIT REPORT
CONTRACT NO. N62467-02-G-0352, CTO NO. 0001, TERRAINE PROJ. NO. 04-40001
DAY TANK 1 BIOSPARGE/SVF SYSTEM
NAVAL AIR STATION, CECIL FIELD, FLORIDA

Date / Time: 5-28-03 Tech 1: [illegible] Tech 2: _____

Weekly Site Visit: 1.0, 2.0, 3.0, and 4.1 Monthly Site Visit: 1.0, 2.0, 3.0, 4.0, 5.0, and 6.0

1.0

System	Status	Hour Meter	Time	
Vapor Extraction System	Arrive: (Up) / Down	24500	1300	<-- Circle Status
	Depart: (Up) / Down	24500	1330	<-- Circle Status
Biosparge System	Arrive: (Up) / Down	24380.1	1300	<-- Circle Status
	Depart: (Up) / Down	24380.4	1330	<-- Circle Status
Electric Service Meter Reading:	--87698--	703	1300	

2.0 If either system was down on arrival/departure, note suspected reason:

3.0 Note measures performed to fix problem(s)/maintenance performed:

4.0 Biosparge System

4.1 Treatment Building

	Tank Pressure	Line Pressure	Line Flow	Comments
Design Pressure (psi)	45	30	45	
Actual Pressure (psi)	60	30		
Design Flowrate (cfm)	10	10	10	
Actual Flowrate (cfm)			14	

4.2 Biosparge Wells

	BP-01	BP-02	BP-03	BP-04	BP-05	BP-06	BP-07	BP-08
Actual Pressure (psi)								
Actual Flow (acfm)								

	BP-09	BP-10	BP-11	BP-12	BP-13	BP-14	BP-15	BP-16
Actual Pressure (psi)								
Actual Flow (acfm)								

5.0 Soil Vapor Extraction System (SVE Wells)

	VEW-01	VEW-02	VEW-03	VEW-04	VEW-05	VEW-06	VEW-07	VEW-08
Actual Vacuum (in. H2O)								
Actual Flowrate (cfm)								

6.0 Air Sampling

Sample Location/ID	Date	Time	Parameters
DT1-Effluent			TO-15

Signature [illegible] Signature _____

OPERATIONS & MAINTENANCE SITE VISIT REPORT
CONTRACT NO. N62467-02-G-0352, CTO NO. 0001, TERRAINE PROJ. NO. 04-40001
DAY TANK 1 BIOSPARGE/SVE SYSTEM
NAVAL AIR STATION, CECIL FIELD, FLORIDA

Date / Time: 6-6-03 Tech 1: Robbie Beaulle Tech 2: _____

Weekly Site Visit: 1.0, 2.0, 3.0, and 4.1 Monthly Site Visit: 1.0, 2.0, 3.0, 4.0, 5.0, and 6.0

1.0

System	Status	Hour Meter	Time	
Vapor Extraction System	Arrive: Up / Down	24054	930	<-- Circle Status
	Depart: Up / Down	24054	10:00	<-- Circle Status
Biosparge System	Arrive: Up / Down	23880.1	9:30	<-- Circle Status
	Depart: Up / Down	23880.4	10:00	<-- Circle Status
Electric Service Meter Reading:	-- 0.37 -	87677	9:30	

2.0 If either system was down on arrival/departure, note suspected reason:

Found compressor overloading, shutting down. Will schedule for someone to diagnose compressor next week.

3.0 Note measures performed to fix problem(s)/maintenance performed:

4.0 Biosparge System

4.1 Treatment Building

	Tank Pressure	Line Pressure	Line Flow	Comments
Design Pressure (psi)	45	30	45	
Actual Pressure (psi)	66	30		
Design Flowrate (cfm)	10	10	10	
Actual Flowrate (cfm)			16	

4.2 Biosparge Wells

	BP-01	BP-02	BP-03	BP-04	BP-05	BP-06	BP-07	BP-08
Actual Pressure (psi)								
Actual Flow (acfm)								

	BP-09	BP-10	BP-11	BP-12	BP-13	BP-14	BP-15	BP-16
Actual Pressure (psi)								
Actual Flow (acfm)								

5.0 Soil Vapor Extraction System (SVE Wells)

	VEW-01	VEW-02	VEW-03	VEW-04	VEW-05	VEW-06	VEW-07	VEW-08
Actual Vacuum (in. H2O)								
Actual Flowrate (cfm)								

6.0 Air Sampling

Sample Location/ID	Date	Time	Parameters
DT1-Effluent			TO-15

Signature _____ Signature _____

OPERATIONS & MAINTENANCE SITE VISIT REPORT
CONTRACT NO. N62467-02-G-0352, CTO NO. 0001, TERRAINE PROJ. NO. 04-40001
DAY TANK 1 BIOSPARGE/SVE SYSTEM
NAVAL AIR STATION, CECIL FIELD, FLORIDA

Date / Time: 6-12-03 Tech 1: Robbie Beach Tech 2: _____

* Weekly Site Visit: 1.0, 2.0, 3.0, and 4.1 Monthly Site Visit: 1.0, 2.0, 3.0, 4.0, 5.0, and 6.0

1.0

System	Status	Hour Meter	Time	
Vapor Extraction System	Arrive: Up / (Down)	24060	12:30	<-- Circle Status
	Depart: (Up) / Down	24060	13:00	<-- Circle Status
Biosparge System	Arrive: Up / Down	23880.1	12:30	<-- Circle Status
	Depart: Up / Down	23880.4	13:00	<-- Circle Status
Electric Service Meter Reading:	-- 1.31 --	81690	12:30	

2.0 If either system was down on arrival/departure, note suspected reason:

Technician coming this week to troubleshoot system

3.0 Note measures performed to fix problem(s)/maintenance performed:

4.0 Biosparge System

4.1 Treatment Building

	Tank Pressure	Line Pressure	Line Flow	Comments
Design Pressure (psi)	45	30	45	
Actual Pressure (psi)	60	30		
Design Flowrate (cfm)	10	10	10	
Actual Flowrate (cfm)			14	

4.2 Biosparge Wells

	BP-01	BP-02	BP-03	BP-04	BP-05	BP-06	BP-07	BP-08
Actual Pressure (psi)								
Actual Flow (acfm)								

	BP-09	BP-10	BP-11	BP-12	BP-13	BP-14	BP-15	BP-16
Actual Pressure (psi)								
Actual Flow (acfm)								

5.0 Soil Vapor Extraction System (SVE Wells)

	VEW-01	VEW-02	VEW-03	VEW-04	VEW-05	VEW-06	VEW-07	VEW-08
Actual Vacuum (in. H2O)								
Actual Flowrate (cfm)								

6.0 Air Sampling

Sample Location/ID	Date	Time	Parameters
DT1-Effluent			TO-15

Signature _____ Signature _____

OPERATIONS & MAINTENANCE SITE VISIT REPORT
CONTRACT NO. N62467-02-G-0352, CTO NO. 0001, TERRAINE PROJ. NO. 04-40001
DAY TANK 1 BIOSPARGE/SVE SYSTEM
NAVAL AIR STATION, CECIL FIELD, FLORIDA

Date / Time: 6-19-03 Tech 1: Robbie Benelk Tech 2: _____

→ Weekly Site Visit: 1.0, 2.0, 3.0, and 4.1 Monthly Site Visit: 1.0, 2.0, 3.0, 4.0, 5.0, and 6.0

1.0

System	Status	Hour Meter	Time	
Vapor Extraction System	Arrive: (Up) / Down	24219	8:30	<-- Circle Status
	Depart: (Up) / Down	24217	9:00	<-- Circle Status
Biosparge System	Arrive: (Up) / Down	23880.1	8:30	<-- Circle Status
	Depart: (Up) / Down	23880.4	9:00	<-- Circle Status
Electric Service Meter Reading:	-- 2.62 --	88087	8:30	

2.0 If either system was down on arrival/departure, note suspected reason:

N/A

3.0 Note measures performed to fix problem(s)/maintenance performed:

4.0 Biosparge System

4.1 Treatment Building

	Tank Pressure	Line Pressure	Line Flow	Comments
Design Pressure (psi)	45	30	45	
Actual Pressure (psi)	50	30		
Design Flowrate (cfm)	10	10	10	
Actual Flowrate (cfm)			14	

4.2 Biosparge Wells

	BP-01	BP-02	BP-03	BP-04	BP-05	BP-06	BP-07	BP-08
Actual Pressure (psi)								
Actual Flow (acfm)								

	BP-09	BP-10	BP-11	BP-12	BP-13	BP-14	BP 15	BP-16
Actual Pressure (psi)								
Actual Flow (acfm)								

5.0 Soil Vapor Extraction System (SVE Wells)

	VEW-01	VEW-02	VEW-03	VEW-04	VEW-05	VEW-06	VEW-07	VEW-08
Actual Vacuum (in. H2O)								
Actual Flowrate (cfm)								

6.0 Air Sampling

Sample Location/ID	Date	Time	Parameters
DT1-Effluent			TO-15

Signature _____ Signature _____

OPERATIONS & MAINTENANCE SITE VISIT REPORT
CONTRACT NO. N62467-02-G-0352, CTO NO. 0001, TERRAINE PROJ. NO. 04-40001
DAY TANK 1 BIOSPARGE/SVE SYSTEM
NAVAL AIR STATION, CECIL FIELD, FLORIDA

Date / Time: 6-27-03 Tech 1: Robbie Benlle Tech 2: _____

Weekly Site Visit: 1.0, 2.0, 3.0, and 4.1 Monthly Site Visit: 1.0, 2.0, 3.0, 4.0, 5.0, and 6.0

1.0

System	Status	Hour Meter	Time	
Vapor Extraction System	Arrive: (Up) / Down	24586	9:30	<-- Circle Status
	Depart: (Up) / Down	24496	10:00	<-- Circle Status
Biosparge System	Arrive: (Up) / Down			<-- Circle Status
	Depart: (Up) / Down			<-- Circle Status
Electric Service Meter Reading:	-2.61 --	88070	10:00	

2.0 If either system was down on arrival/departure, note suspected reason:

3.0 Note measures performed to fix problem(s)/maintenance performed:

4.0 Biosparge System

4.1 Treatment Building

	Tank Pressure	Line Pressure	Line Flow	Comments
Design Pressure (psi)	45	30	45	
Actual Pressure (psi)	60	30		
Design Flowrate (cfm)	10	10	10	
Actual Flowrate (cfm)			14	

4.2 Biosparge Wells

	BP-01	BP-02	BP-03	BP-04	BP-05	BP-06	BP-07	BP-08
Actual Pressure (psi)	14	14	16	16	16	14	16	16
Actual Flow (acfm)	90	90	100	100	100	90	100	100

	BP-09	BP-10	BP-11	BP-12	BP-13	BP-14	BP-15	BP 16
Actual Pressure (psi)	16	16	14	14	14	14		
Actual Flow (acfm)	100	100	100	90	90	100		

5.0 Soil Vapor Extraction System (SVE Wells)

	VEW-01	VEW-02	VEW-03	VEW-04	VEW-05	VEW-06	VEW-07	VEW-08
Actual Vacuum (in. H2O)	-14	-14	-18	-20	-20	-20	-20	
Actual Flowrate (cfm)	16	16	16	16	14	14	14	

6.0 Air Sampling

Sample Location/ID	Date	Time	Parameters
DT1-Effluent			TO-15

Signature _____ Signature _____