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SUPPLEMENTAL SITE ASSESSMENT REPORT FOR GEIGER KEY HAWK MISSILE SITE G-01 WITH TRANSMITTAL LETTER NAS KEY WEST FL

8/30/2004

TETRA TECH NUS

TETRA TECH NUS, INC.

AIK-04-0200

August 30, 2004

Project Number N4779 *via FedEx*

Commander
Department of the Navy
SOUTHDIV NAVFACENGCOM
ATTN: Byas Glover (Code ES24)
P.O. Box 190010
North Charleston, South Carolina 29419-9010

Reference: CLEAN Contract No. N62467-94-D-0888
Contract Task Order No. 0318

Subject: Supplemental Site Assessment Report for Geiger Key Hawk Missile Site G-01, Rev. 0, Naval Air Station, Key West, Florida

Dear Mr. Glover:

TtNUS is pleased to submit the enclosed PDF file for the final Supplemental Site Assessment Report for Geiger Key Hawk Missile Site G-01, Rev. 0, Naval Air Station (NAS), Key West, Florida. As you requested, a copy of this plan is being sent to NAS Key West for review and comment prior to submittal to the Florida Department of Environmental Protection.

Please call me at (803) 649-7963, extension 345, if you have any questions regarding the enclosed report.

Sincerely,

C. M. Bryan
Project Manager

CMB:spc

Enclosure

c: Ms. Debra M. Humbert (Cover Letter Only)
Mr. M. Perry/File
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File N4779-7.3.1

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Supplemental Site Assessment Report

for

Geiger Key Hawk Missile Site G-01

Naval Air Station

Key West, Florida

Southern Division
Naval Facilities Engineering Command

Contract Number N62467-94-D-0888
Contract Task Order 0318

August 2004

Rev. 0
08/30/04

SUPPLEMENTAL SITE ASSESSMENT REPORT
FOR
GEIGER KEY HAWK MISSILE SITE G-01

NAVAL AIR STATION
KEY WEST, FLORIDA

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

Submitted to:
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29406

Submitted by:
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CONTRACT NUMBER N62467-94-D-0888
CONTRACT TASK ORDER 0318

AUGUST 2004

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PROFESSIONAL CERTIFICATION

Supplemental Site Assessment Report
Geiger Key Hawk Missile Site G-01
Key West, Florida

The Supplemental Site Assessment Report was prepared under the direct supervision of the undersigned geologist using geologic and hydrogeologic principles standard to the profession at the time the report was prepared. If conditions are determined to exist that differ from those described, the undersigned geologist should be notified to evaluate the effects of additional information on the assessment described in this report. This report was developed specifically for the referenced site and should not be construed to apply to any other site.

Gary Braganza, P.G.
Florida License No. PG1822

1/13/05
Date

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ACRONYMS/ABBREVIATIONS

ABB	ABB Environmental Services, Inc.
AST	Aboveground Storage Tank
B&RE	Brown and Root Environmental, Inc.
BBL	Blasland, Bouck, and Lee, Inc.
bls	Below land surface
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CAP	Contamination Assessment Plan
CO_2	Carbon Dioxide
CoC	Contaminant of Concern
CTO	Contract Task Order
DPT	Direct Push Technology
DTW	Depth to Water
EDB	Ethylene Dibromide
EPA	United States Environmental Protection Agency
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FID	Flame Ionization Detector
FKAA	Florida Keys Aqueduct Authority
FL-PRO	Florida Petroleum Range Organics
GAC	Granular Activated Carbon
GCTL	Groundwater Cleanup Target Level
HSA	Hollow-stem Auger
ID	Inside Diameter
K	Hydraulic Conductivity
KAG	Kerosene Analytical Group
µg/L	Micrograms per Liter
mg/kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
MNA	Monitored Natural Attenuation
msl	Mean Sea Level
MTBE	Methyl-tertiary butyl ether
NAS	Naval Air Station
NAVFAC EFD SOUTH	Southern Division, Naval Facilities Engineering Command
OVA	Organic Vapor Analyzer

ACRONYMS/ABBREVIATIONS (CONT.)

PAH	Polynuclear Aromatic Hydrocarbon
PE	Polyethylene
PPL	Priority Pollutant List
ppm	Parts per Million
PVC	Polyvinyl Chloride
RAP	Remedial Action Plan
SAR	Site Assessment Report
SCTL	Soil Cleanup Target Level
SOP	Standard Operating Procedure
SSAR	Supplemental Site Assessment Report
SWL	Static Water Level
TOC	Top of Casing
TRPH	Total Recoverable Petroleum Hydrocarbon
TtNUS	Tetra Tech NUS, Inc.
USGS	United States Geological Survey
VOH	Volatile Organic Halocarbon

EXECUTIVE SUMMARY

Tetra Tech NUS, Inc. (TtNUS) has been authorized by Southern Division, Naval Facilities Engineering Command (NAVFAC EFD SOUTH) to prepare a Supplemental Site Assessment Report (SSAR) for the Geiger Key Hawk Missile Site G-01 at Naval Air Station (NAS) Key West, Florida. This SSAR has been prepared to evaluate soil and groundwater conditions at the former site of a 2,000-gallon aboveground storage tank (AST) that stored diesel and jet fuel.

Site Assessment Activities

The following site assessment activities were conducted by TtNUS, in accordance with the Abbreviated Contamination Assessment Plan (CAP) (TtNUS, 2003):

- Reviewed available Navy documents to collect historical information about the site, evaluate public and private potable wells, locate utility line areas, locate nearby surface water bodies, and assess surface hydrology and drainage.
- Reviewed the Site Assessment Report (SAR) prepared in 2002 by Blasland, Bouck, and Lee, Inc. (BBL).
- Conducted a preliminary assessment of soil and groundwater using Direct Push Technology (DPT) methods.
- Collected soil samples from three locations for laboratory analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl-tertiary butyl ether (MTBE), polynuclear aromatic hydrocarbons (PAHs), and total recoverable petroleum hydrocarbons (TRPH).
- Collected groundwater screening samples from DPT boreholes and analyzed for BTEX, MTBE, Priority Pollutant List (PPL) volatile organic halocarbons (VOHs), and PAHs.
- Installed five shallow monitoring wells and one deep monitoring well to assess the horizontal and vertical extent of contamination.
- Collected two sets of groundwater samples from the 13 permanent monitoring wells (6 new wells and 7 existing wells) for laboratory analysis of BTEX, MTBE, PPL VOHs, PAHs, ethylene dibromide (EDB), TRPH, and lead. Select samples were also analyzed for constituents of the Used Oil Group.
- Conducted a study to evaluate the effects of tidal influences on the movement of groundwater at the site.

Conclusions

The following conclusions were drawn based on site assessment activities:

- Concentrations of petroleum contaminants detected in the soil samples collected for this investigation were below Soil Cleanup Target Levels (SCTLs) for Residential Direct Exposure, as specified in the Chapter 62-777, Florida Administrative Code (FAC), Table II.
- Free product was observed in one monitoring well during the supplemental site assessment activities.
- Concentrations of some petroleum contaminants of concern (CoCs), including volatiles and PAHs, were greater than Groundwater Cleanup Target Levels (GCTLs), as specified in Chapter 62-777, FAC, Table I, in site groundwater during two sampling events conducted in February and May 2004.

Recommendation

Based on the hydrogeological and chemical data presented in this SSAR, and supported by the criteria sited in Chapter 62-770, FAC, active remediation is warranted at Geiger Key Hawk Missile Site G-01. The preparation of a Remedial Action Plan (RAP) is recommended for the site.

1.0 SITE DESCRIPTION AND BACKGROUND INFORMATION

TtNUS, under contract with NAVFAC EFD SOUTH, is submitting this SSAR for the Geiger Key Hawk Missile Site G-01 at NAS Key West, Florida. This SSAR was prepared on behalf of the Navy under Contract Number N62467-94-D-0888, Contract Task Order (CTO) 0318.

1.1 SITE LOCATION AND CONDITIONS

NAS Key West is located in southern Monroe County, Florida, approximately 150 miles southwest of Miami. The site is located south of State Road S-941 (Old Boca Chica Road) on the southwest end of Geiger Key (Figure 1-1). Figure 1-2 shows the site location on the United States Geological Survey (USGS) topographic quadrangle map. The site is located in Section 27, Township 67 South Range 26 East. The site topography is level and the elevation of the site is less than 5 feet above mean sea level (msl). The site is approximately 750 feet from the Atlantic Ocean.

1.2 SITE HISTORY

Two ASTs used to store diesel fuel for emergency generators were located at the Geiger Key Hawk Missile Site G-01 (Figure 1-3). The tanks also reportedly stored jet propellant fuel (JP-5) on occasion. Dates of operation for the tanks are not available (Rust, 1997). The 2,000-gallon and 300-gallon tanks at Geiger Key Hawk Missile Site G-01 were closed in place on April 27, 1996. The Closure Report indicated that the groundwater in the vicinity of the 2,000-gallon AST showed signs of petroleum hydrocarbon contamination and recommended that a contamination assessment be performed. The Navy submitted a Closure Assessment Form to the Florida Department of Environmental Protection (FDEP) on June 17, 1996 (BBL, 2002).

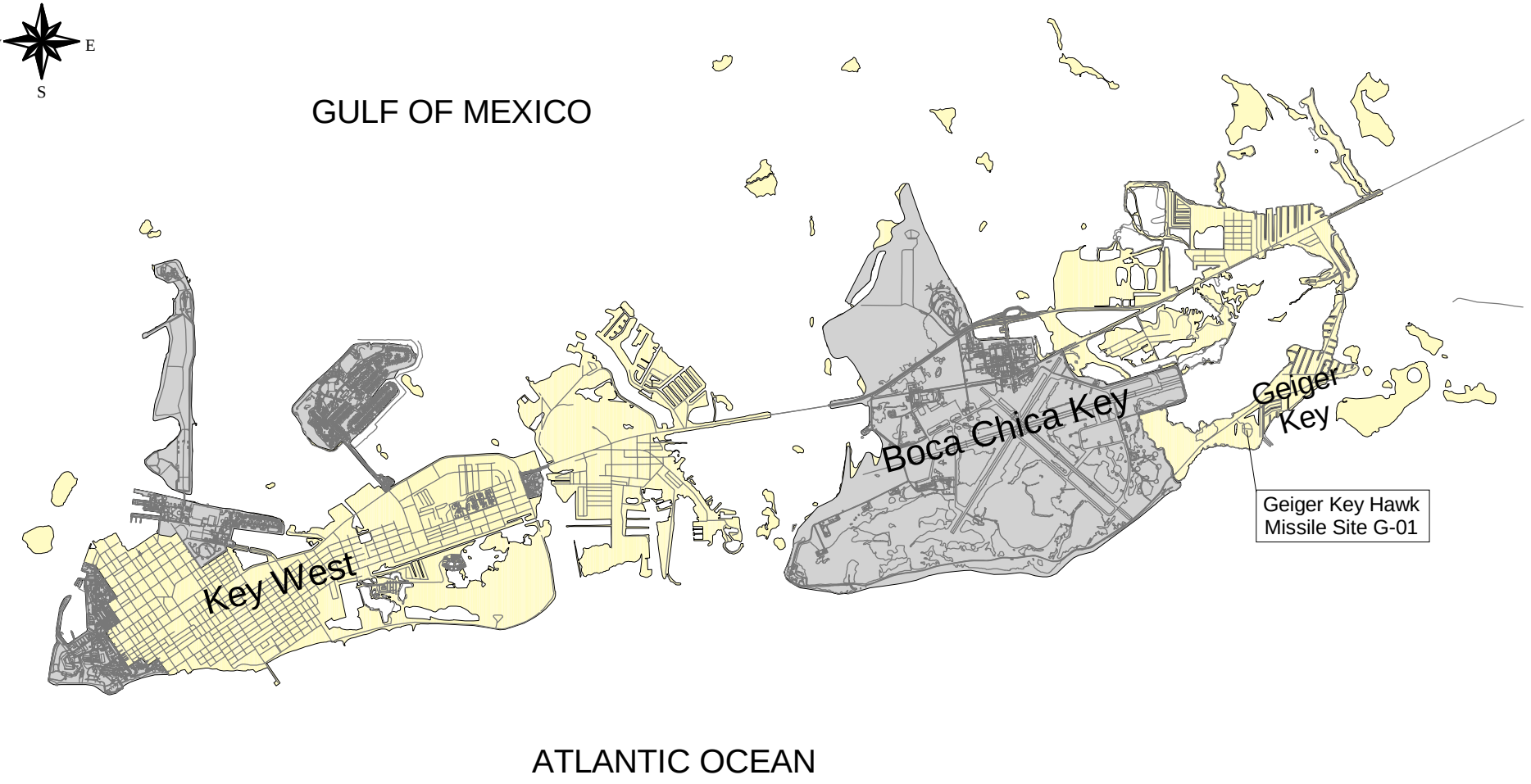
1.3 PREVIOUS INVESTIGATIONS

A site assessment was conducted by BBL and a SAR was submitted to the FDEP in February 2002. Petroleum contamination was identified during the site assessment in soil and groundwater. The SAR concluded that the horizontal extent of contamination at the Geiger Key Hawk Missile Site G-01 was not fully defined to the north of G01-MW-06, but that concentrations were not high enough to warrant further site assessment. Monitored Natural Attenuation (MNA) was recommended for the site, following the installation of three additional shallow monitoring wells. Locations for these monitoring wells were specified as (1) 30 feet west of G01-MW-06, (2) 30 feet north of G01-MW-06, and (3) 30 feet north of G01-MW-05 (BBL, 2002). FDEP approved the SAR on May 2, 2002, concurring with the recommendation to install additional monitoring wells and implement MNA (BBL, 2002). However, the Navy elected to perform a supplemental site assessment in an attempt to fully delineate contamination at the site. A copy of FDEP's approval letter is included in Appendix A.

AIK-04-0200

1-2

CTO 0318



Legend

NAS Key West Property

1 0 1 Miles

NO.	DATE	REVISIONS

DRAWN BY EHM	DATE 08/10/2004
CHECKED BY MD	DATE 08/12/2004
COST/SCHED-AREA	
SCALE AS NOTED	

SUPPLEMENTAL SITE ASSESSMENT REPORT
FOR
GEIGER KEY HAWK MISSILE SITE G-01
SITE LOCATION MAP
NAVAL AIR STATION
KEY WEST, FLORIDA

CONTRACT NO. N4779	
APPROVED BY CMB	DATE 08/13/2004
APPROVED BY	DATE
FIGURE NO. 1-1	REV. 0

Rev. 0
08/30/04

K:\GEIGER KEY HAWK SUP SAR.APR LAYOUT: FIGURE 1-1 SSAR REV. 0 BY: EHM DATE: 08/23/2004

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DRAWN BY EHM	DATE 08/25/2004
CHECKED BY MD	DATE 08/25/2004
COST/SCHED-AREA	
SCALE	AS NOTED

SUPPLEMENTAL SITE ASSESSMENT REPORT
FOR
GEIGER KEY HAWK MISSILE SITE
USGS TOPOGRAPHIC QUADRANGLE
NAVAL AIR STATION
KEY WEST, FLORIDA

CONTRACT NO.	N4779
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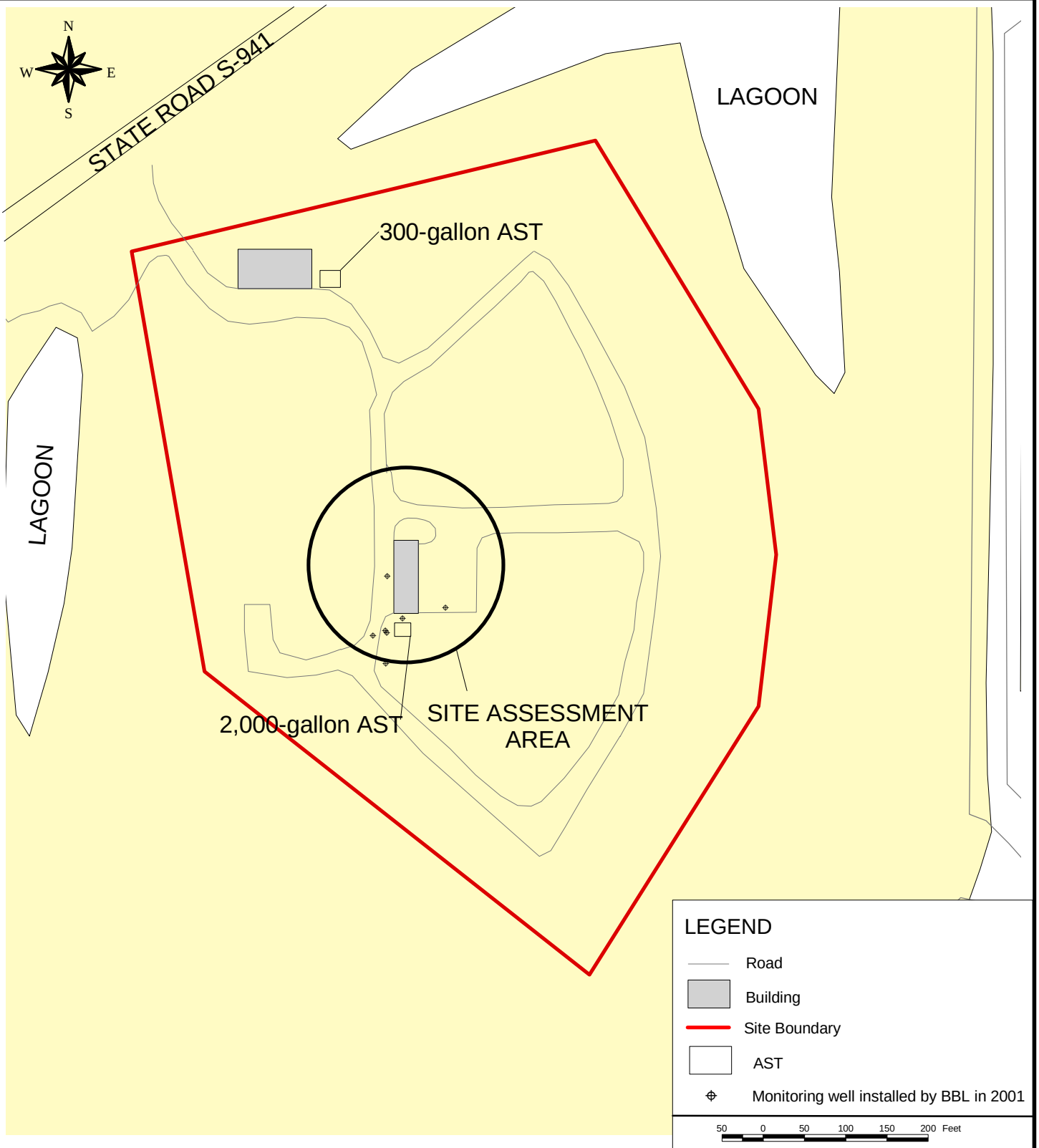


NO.	DATE	REVISIONS

DRAWN BY EHM	DATE 08/10/2004
CHECKED BY MD	DATE 08/12/2004
COST/SCHED-AREA	
SCALE	AS NOTED

SUPPLEMENTAL SITE ASSESSMENT REPORT
FOR
GEIGER KEY HAWK MISSILE SITE G-01
SITE LAYOUT
NAVAL AIR STATION
KEY WEST, FLORIDA

CONTRACT NO.	N4779
APPROVED BY CMB	DATE 08/13/2004
APPROVED BY	DATE
FIGURE NO.	1-3
REV.	0

K:\GEIGER KEY SUP SAR.APR LAYOUT: FIGURE 1-3 SSAR REV. 0 BY:EHM DATE: 08/25/2004

2.0 SITE ASSESSMENT METHODOLOGY

Supplemental site assessment activities were carried out at Geiger Key Hawk Missile Site G-01 beginning November 2003 through May 2004. Initially, a DPT investigation was conducted in November 2003 to define the horizontal and vertical extent of contamination at the site. The DPT borings were placed to the north of the former 2,000-gallon AST surrounding the maintenance building because the area south of the tank was investigated during the site assessment. Soil samples were collected during this investigation for headspace screening and/or laboratory analysis. Groundwater screening samples were also collected from each soil boring for fixed-base laboratory analysis. Based on the results of this initial investigation, monitoring wells were installed at the site in February 2004. Groundwater samples were collected in February 2004 and May 2004 for off-site laboratory analysis and evaluation of natural attenuation parameters. Aquifer properties were evaluated using data collected during the monitoring well elevation survey, tidal study, and static water level (SWL) measurements, along with referenced slug test data (conducted during the site assessment in 2002). The results of the site assessment are discussed in Sections 3.0 and 4.0.

2.1 QUALITY ASSURANCE

The site assessment investigation was conducted in accordance with the Abbreviated CAP (TtNUS, 2003). Standard Operating Procedures (SOPs) prescribed by FDEP (FDEP, 2002) were followed. Organic vapor measurements were made with a Heath PortaFID II flame ionization detector (FID). Prior to each day's activities, all equipment was field calibrated in accordance with manufacturer directions. Equipment used to advance the soil borings, install monitoring wells, and collect soil or groundwater samples was decontaminated in accordance with FDEP SOP FC 1000.

Soil, groundwater screening and monitoring well samples were collected in pre-preserved containers obtained from Katahdin Analytical Services in Westbrook, Maine. The laboratory's certification number is E87604. The soils were typically analyzed for constituents of the Kerosene Analytical Group (KAG) as specified in Chapter 62-770, FAC, Table B. Quality control samples (i.e., duplicates, equipment blanks, and trip blanks) were prepared and submitted to the laboratory. Sampling activities were documented in a site-specific field logbook and samples were transmitted under chain-of-custody protocol to the laboratory.

2.2 SOIL BORING PROGRAM

The soil screening investigation was conducted at Geiger Key Hawk Missile Site G-01 to evaluate the extent to which petroleum contamination has impacted the site soils. The soil screening investigation was conducted by installing 52 soil borings (G01-SB-1 through -52) using DPT (Figure 2-1). Soil samples from the vadose zone of each soil boring were collected for headspace screening with a FID. During the DPT

field investigation, each soil boring was advanced below the water table in order to collect groundwater samples for laboratory analysis. Groundwater screening activities are discussed in Section 2.5.1.

2.2.1 Soil Core Sampling

Soil borings for the preliminary assessment were advanced using DPT. Oolitic limestone was encountered in the soil borings. Groundwater was encountered at approximately 3 feet below land surface (bls). The soil borings were advanced to approximately 4 to 5 feet bls and a soil sample was collected from the 0 to 2 foot unsaturated interval. The site geologist logged the soil properties, including texture, color, and soil moisture, for each soil core and noted whether staining or odors were present. Soil boring logs are provided in Appendix B.

2.2.2 Soil Headspace Screening

Soil samples were collected from the 0 to 2 foot interval at each location for headspace vapor screening in accordance with the procedures outlined in Section 62-770.200, FAC. At each location, two 16-ounce glass jars were half-filled with the soil sample from the interval, which was quickly sealed with aluminum foil, and labeled. The soil samples were allowed to equilibrate to ambient air temperature. The FID response to total headspace organic vapors was measured by inserting the FID probe through the foil sample cover and recording the highest instrument reading. If a positive response was observed when screening the first sample jar, a filtered sample instrument reading was made from the second soil sample jar. A granular-activated carbon (GAC) filter was attached to the instrument and a headspace organic vapor measurement was made from the second soil sample. The GAC filter adsorbs heavier organic vapors (such as petroleum hydrocarbons), but allows lighter, naturally occurring organic vapors (such as methane) to be detected by the FID. However, no organic readings were detected in soil samples using the GAC filter. Therefore, no calculations were necessary to determine the corrected FID response.

2.3 SOIL SAMPLING PROGRAM

Three soil samples were collected for laboratory analysis to confirm results of the headspace screening. Samples were collected from borings with high, medium, and low FID readings. The soil samples were analyzed for BTEX and MTBE by SW-846 Method 8260B, PAHs (including 1- and 2-methylnaphthalene) by SW-846 Method 8270C, and TRPH by the Florida Petroleum Range Organics (FL-PRO) method. The analytical validation reports are included in Appendix C.

2.4 MONITORING WELL INSTALLATION PROGRAM

Seven existing monitoring wells (six shallow installed to 12 feet bls and one deep installed to 25 feet bls) were installed at the site during the site assessment conducted by BBL. Following the DPT investigation, five additional shallow monitoring wells (each installed to 12 feet bls) and one additional deep monitoring

well (installed to 25 feet bls) were constructed at the site. The existing and new monitoring wells were used for groundwater sampling and collecting data to evaluate aquifer properties.

2.4.1 Monitoring Well Locations

Screening data obtained during the DPT investigation were evaluated to determine the optimum number and location for the wells (Figure 2-2).

2.4.2 Shallow Monitoring Well Installation

The monitoring well borings were drilled with a truck-mounted drill rig and 4.25-inch inside diameter (ID) hollow-stem auger (HSA). Each well was constructed of 2-inch-ID, flush-threaded, schedule 40 polyvinyl chloride (PVC) riser, and 0.010-inch-slot well screen with a 6-inch point cap. The five new shallow wells were installed to approximately 12 feet bls with a 10-foot screen. The annulus around each well was filled to approximately 1 foot above the top of the screen with U.S. Standard Sieve size 20/30 silica sand, followed by a 0.5 foot 30/65 fine sand seal. The remainder of the annulus was grouted to the surface. Each well was secured with a locking, watertight cap within an 8-inch-diameter steel manhole. The manhole was set in a 24-inch-square concrete apron finished slightly above grade. A typical shallow well installation is illustrated on Figure 2-3. Monitoring well construction details for all monitoring wells are summarized in Table 2-1 and the monitoring well completion diagrams for newly installed monitoring wells are provided in Appendix B.

2.4.3 Deep Monitoring Well Installation

The deeper well was installed to a depth of 25 feet bls with a 5-foot screen, also constructed of 2-inch-ID, flush-threaded, schedule 40 PVC riser, and 0.010-inch-slot well screen with a 6-inch point cap. The annulus around the well was filled to approximately 2 feet above the top of the screen with U.S. Standard Sieve size 20/30 silica sand, followed by 2 feet of a 30/65 fine sand seal. The remainder of the annulus was grouted to the surface. Each well was secured with a locking, watertight cap within an 8-inch-diameter steel manhole. The manhole was set in a 24-inch-square concrete apron finished slightly above grade. Monitoring well construction details for the deep monitoring well is summarized in Table 2-1 and the monitoring well completion diagram is provided in Appendix B.

2.4.4 Monitoring Well Development

Each monitoring well was developed by using a diaphragm or centrifugal pump. The wells were developed until the purge water became clear, normally when approximately 20 gallons had been removed.

2.5 GROUNDWATER SAMPLING PROGRAM

Groundwater screening samples were analyzed for BTEX, MTBE, and PPL VOHs. Groundwater screening samples collected from borings next to the building were also analyzed for PAHs in order to determine if the maintenance building could be a source of contamination. Groundwater samples collected from the monitoring wells were submitted to the off-site laboratory to be analyzed for KAG constituents. Select groundwater samples were analyzed for Used Oil Group constituents as listed in Chapter 62-770, FAC, Table C. Monitoring wells were chosen based their proximity to the Maintenance Building. The Maintenance Building was considered a possible source, although no historical documentation indicating a spill exists.

2.5.1 DPT Groundwater Screening

The groundwater screening investigation was conducted at Geiger Key Hawk Missile Site G-01 to optimize placement of the monitoring wells that will be used to determine the extent of petroleum contamination in site groundwater. In keeping with the location of previously identified contamination (BBL, 2002), soil borings were installed to the north of the 2,000-gallon AST, extending to the north, east, and west of the Maintenance Building (Figure 2-1). The 52 borings were advanced approximately 4 to 5 feet into the water table to collect groundwater screening samples.

Groundwater samples were collected from each DPT boring. A length of polyethylene (PE) tubing was inserted to the bottom of the stainless steel DPT well screen. The PE tubing was connected to a peristaltic pump and several screen volumes were removed from the temporary well to decrease the amount of suspended sediment in the groundwater samples. After sufficient purging, groundwater samples were collected by directing the peristaltic pump discharge directly into bottles provided by the laboratory.

2.5.2 Monitoring Well Sampling

Samples were collected from site monitoring wells to evaluate groundwater quality in the shallow surficial aquifer. These samples were collected using the low-flow quiescent purging and sampling method. New Teflon® tubing was installed in each well for groundwater sampling. Temperature, pH, specific conductivity, dissolved oxygen (DO), and turbidity were monitored while the wells were purged. The field measurements, well purge volumes, and depths to groundwater were recorded during well purging and at the time of sample collection. Groundwater sample log sheets are provided in Appendix B.

Groundwater samples were analyzed for KAG constituents, consisting of BTEX, MTBE, and PPL VOHs (SW-846 Method 8260B), PAHs (SW-846 Method 8270C), EDB by United States Environmental Protection Agency (EPA) Method 504.1, TRPH (FL-PRO), and lead (SW-846 Method 6010B). Additional volatile, semi-volatile, and inorganic parameters from the Used Oil Group were also reported for groundwater

collected from three monitoring wells during each sampling event (G01-MW-06, -07, and -11 in February 2004 and G01-MW-07, -08, and -09 in May 2004). These monitoring wells were selected for Used Oil Group analyses because of their close proximity to the Maintenance Building. The maintenance building was considered a possible source, although no historical documentation indicating a spill exists. The groundwater samples were placed on ice and shipped to Katahdin Analytical Services in Westbrook, Maine, for analysis. Analytical validation reports are presented in Appendix C.

2.5.3 Natural Attenuation Parameter Sampling

During the groundwater sampling event, additional analyses were performed to evaluate the potential for naturally occurring biodegradation of petroleum constituents at the site. Field samples were analyzed for DO and carbon dioxide (CO_2), as called for in the Abbreviated CAP (TtNUS, 2003). The field log sheets contain those results (Appendix B). Additional laboratory analyses included methane (RSK 175), sulfate (EPA Method 375.4), and nitrate (EPA Method 353.2). Analytical validation reports for natural attenuation parameters are included in Appendix C.

2.6 AQUIFER CHARACTERIZATION PROGRAM

Data were collected during the site investigation to evaluate the movement of groundwater at the site. Groundwater elevations were determined from SWL measurements and the well top of casing (TOC) elevation survey.

2.6.1 Well TOC Survey

A reference point was marked on the top of each monitoring well casing on the north side. The elevations of the reference points were surveyed to the nearest 0.01-foot by the surveyor, Island Surveying and Mapping Company of Merritt Island, Florida. The field survey data is included in Appendix D.

2.6.2 SWL Measurements

Depth-to-groundwater measurements were made in site monitoring wells during February and May 2004. Measurements were made from the reference points marked on the tops of well casings using an electronic water level indicator to the nearest 0.01-foot. Groundwater elevations were calculated from the TOC survey elevations and the SWL measurements.

2.6.3 Tidal Study

Three monitoring wells, G01-MW-03, -10, and -12 were used to measure fluctuations in groundwater elevation and correlate these fluctuations with tides to determine the extent of tidal influence on the surficial aquifer in the site vicinity. Prior to conducting the test, the monitoring wells were opened and allowed to

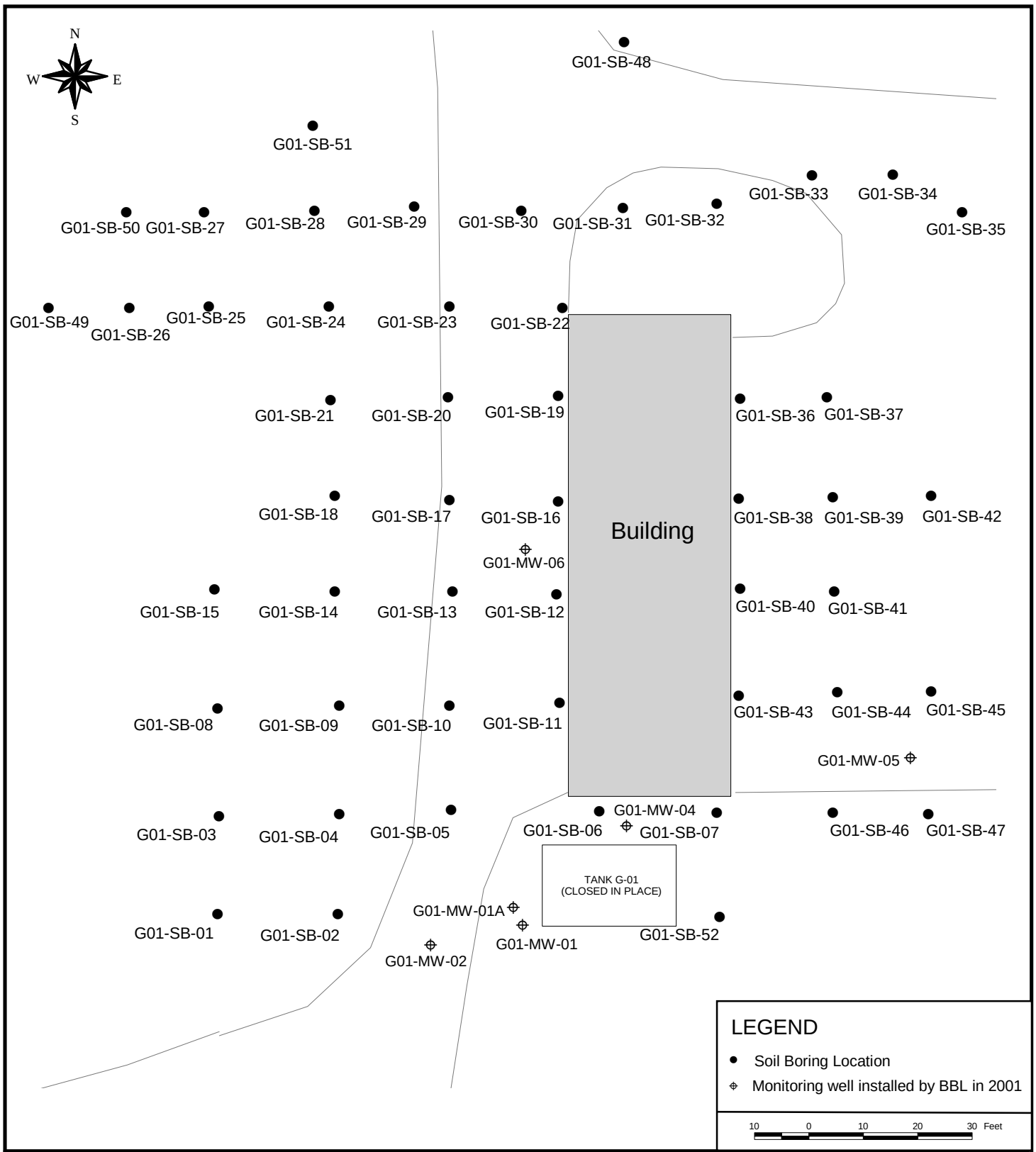
equilibrate to ambient conditions. A submersible data logger, the In-Situ MiniTroll, was then installed in each well and water levels were allowed to restabilize. The lead wire from each data logger was secured to its respective well to ensure that the data logger remained at a constant depth during the test. The data loggers were connected to a computer to begin the test and start recording water levels in the well. It was programmed to record water levels every 15 minutes. The test was allowed to run for a period of 48 hours to ensure that any fluctuations would be recorded. The tidal study data and graphical representation are presented in Appendix E.

TABLE 2-1

**MONITORING WELL CONSTRUCTION DETAILS
GEIGER KEY HAWK MISSILE SITE G-01
SUPPLEMENTAL SITE ASSESSMENT REPORT
NAVAL AIR STATION
KEY WEST, FLORIDA**

Well No.	Date Installed	Drilling Method	TOC Elevation (above msl)	Total Well Depth (feet bls)	Screened Interval (feet bls)	Well Diameter (inches)	Lithology of Screened Interval
G01-MW-01	10/24/2001	HSA	4.80	12	2-12	2	Oolitic limestone
G01-MW-01A	10/25/2001	HSA	4.84	25	20-25	2	Oolitic limestone
G01-MW-02	10/24/2001	HSA	4.22	12	2-12	2	Oolitic limestone
G01-MW-03	10/24/2001	HSA	3.02	12	2-12	2	Oolitic limestone
G01-MW-04	10/24/2001	HSA	4.81	12	2-12	2	Oolitic limestone
G01-MW-05	10/25/2001	HSA	3.93	12	2-12	2	Oolitic limestone
G01-MW-06	10/25/2001	HSA	4.99	12	2-12	2	Oolitic limestone
G01-MW-07	2/4/2004	HSA	4.89	25	20-25	2	Oolitic limestone
G01-MW-08	2/4/2004	HSA	5.57	12	2-12	2	Oolitic limestone
G01-MW-09	2/4/2004	HSA	5.22	12	2-12	2	Oolitic limestone
G01-MW-10	2/4/2004	HSA	4.58	12	2-12	2	Oolitic limestone
G01-MW-11	2/4/2004	HSA	5.20	12	2-12	2	Oolitic limestone
G01-MW-12	2/4/2004	HSA	4.47	12	2-12	2	Oolitic limestone

Notes:
TOC elevations surveyed by Island Surveying and Mapping in August 2003 and May 2004 (NGVD 29).
All monitoring wells are flush-mounted.
HSA Hollow-stem auger
TOC Top of casing
msl mean sea level
bls below land surface
NGVD National Geodetic Vertical Datum



NO.	DATE	REVISIONS

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COST/SCHED-AREA	
SCALE	AS NOTED

SUPPLEMENTAL SITE ASSESSMENT REPORT
FOR
GEIGER KEY HAWK MISSILE SITE G-01
SOIL BORING LOCATIONS
NAVAL AIR STATION
KEY WEST, FLORIDA

CONTRACT NO.	N4779
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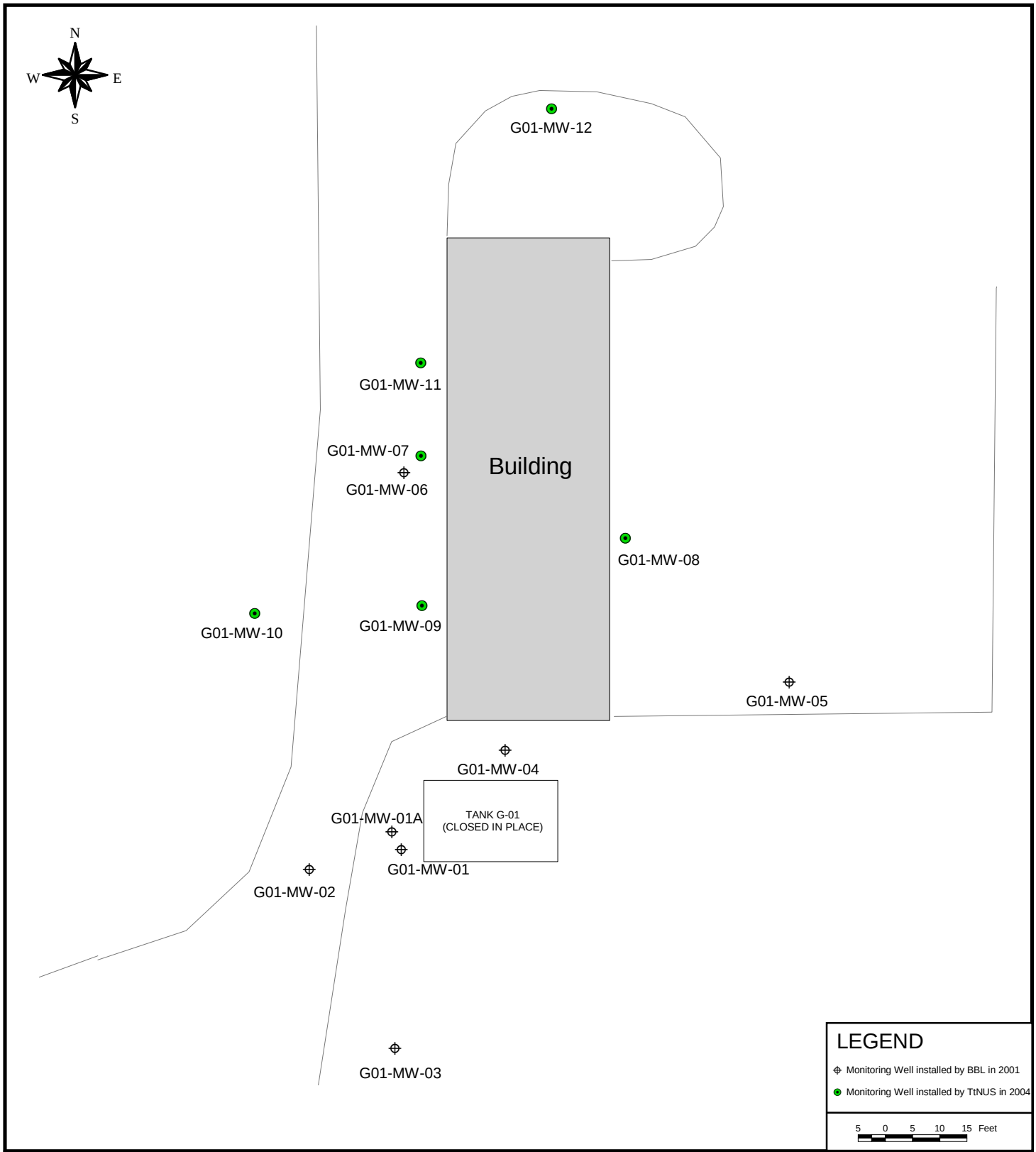
APPROVED BY	DATE
FIGURE NO.	2-1
REV.	0

K:\GEIGER KEY SUP SAR.APR LAYOUT: FIGURE 2-1 SSAR REV. 0 BY:EHM DATE: 08/30/2004



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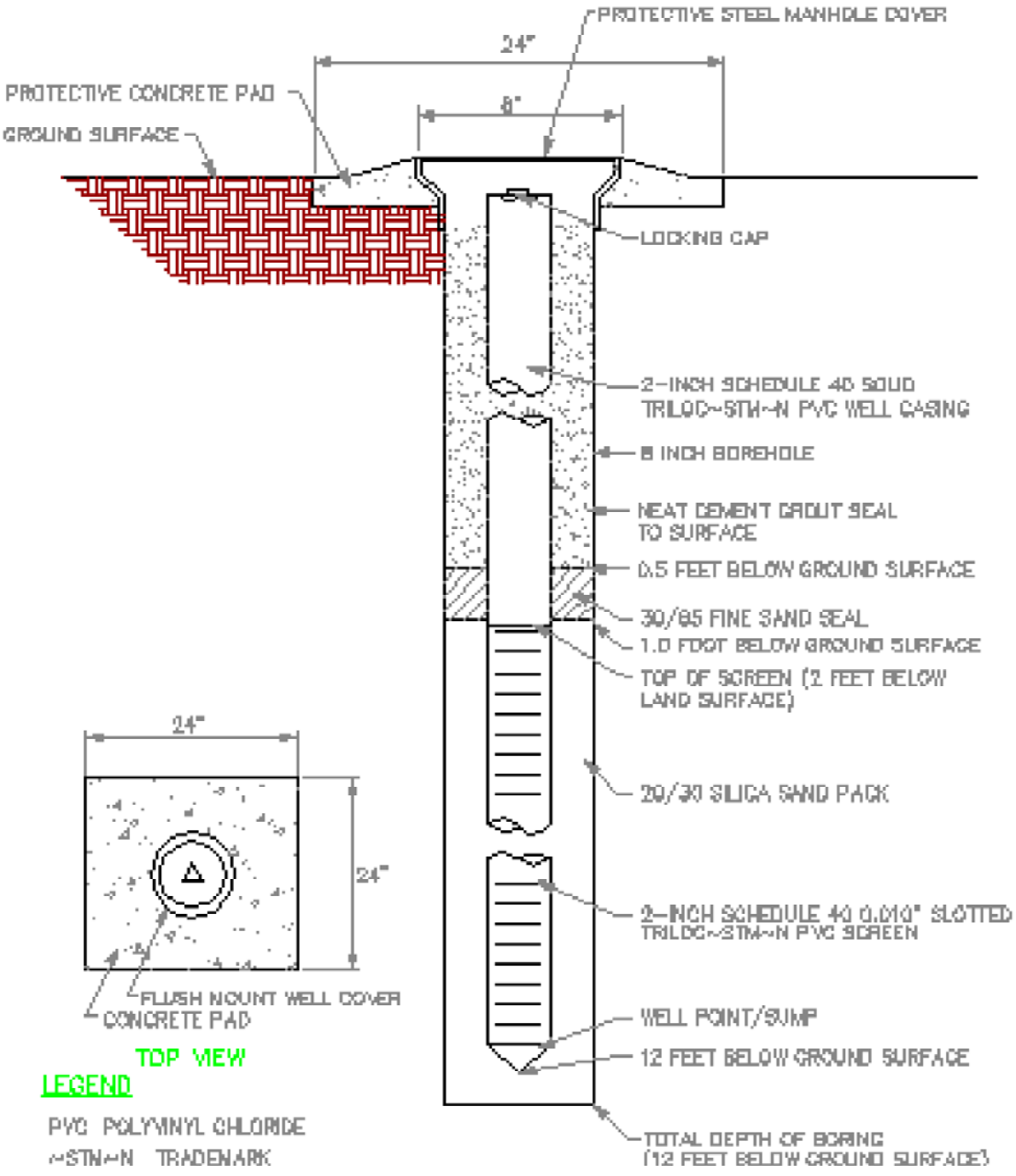
SUPPLEMENTAL SITE ASSESSMENT REPORT
FOR
GEIGER KEY HAWK MISSILE SITE G-01
MONITORING WELL LOCATIONS
NAVAL AIR STATION
KEY WEST, FLORIDA

CONTRACT NO. N4779
APPROVED BY CMB DATE 08/13/2004
APPROVED BY ___ DATE ___
FIGURE NO. 2-2
REV. 0

K:\GEIGER KEY SUP SAR.APR LAYOUT: FIGURE 2-2 SSAR REV. 0 BY:EHM DATE: 08/17/2004



NO.	DATE	REVISIONS

DRAWN BY EHM	DATE 08/10/2004
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COST/SCHED-AREA	
SCALE AS NOTED	

SUPPLEMENTAL SITE ASSESSMENT REPORT
FOR
GEIGER KEY HAWK MISSILE SITE G-01
TYPICAL SHALLOW MONITORING WELL CONSTRUCTION
NAVAL AIR STATION
KEY WEST, FLORIDA

CONTRACT NO. N4779	
APPROVED BY CMB	DATE 08/13/2004
APPROVED BY _____	DATE ___
FIGURE NO. 2-3	REV. 0

K:\GEIGER KEY SUP SAR.APR LAYOUT: FIGURE 2-3 SSAR REV. 0 BY:EHM DATE: 08/27/2004

3.0 GEOLOGY AND HYDROGEOLOGY

Data collected during the Supplemental Site Assessment were used to evaluate geologic and hydrogeologic conditions at the site that may influence the fate and transport of hydrocarbons released to the environment. Lithology and stratigraphy are described for the shallow surficial aquifer at the site. Aquifer properties evaluated as part of the site assessment include depth to groundwater and groundwater elevation, groundwater flow direction and gradient, and tidal influence in the area.

The Lower Keys, which are within the southern geomorphic division of Florida, were formed during the Pleistocene Era. The Lower Keys are known as the "Oolitic Keys," a reference to the Oolitic Member of the Miami Limestone. The Oolitic Member consists of variably sandy, fossiliferous limestone composed primarily of ooids. The Oolitic Member is divided into two lithofacies: an ooid calcarenite and an oomoldic-recrystalline facies. The Key Largo Limestone underlies the Miami Limestone. The Key Largo Limestone is a light-gray to light-yellow coralline limestone comprised of coral heads encased in a matrix of calcarenite. In the Key West area, the Miami Limestone is approximately 27 feet thick and the Key Largo limestone is more than 270 feet thick [Brown & Root Environmental (B&RE), 1997].

The surficial aquifer system in the lower Keys is an unconfined, porous, highly permeable solution-riddled unit as described above. Rainfall recharge seeps quickly into the ocean and saltwater intrusion is common. The water table ranges in depth from less than 1 foot to approximately 2.5 feet below msl and fluctuates diurnally due to tidal effects. Water in the surficial aquifer is non-potable.

Geiger Key lies in the southeastern Coastal Plain physiographic province. Pleistocene marine reefs control the topography of the Coastal Plain in the Florida Keys [ABB Environmental Services, Inc. (ABB), 1995]. The topography of Geiger Key is generally flat. Average land surface elevations are less than 5 feet above msl. The Atlantic Ocean lies within 750 feet to the south and east of the site.

3.1 SITE STRATIGRAPHY

Interpretation of site lithology and stratigraphy was based on visual examination of soil cores collected from soil borings during the DPT investigation and drill cuttings observed during the monitoring well installation. The site surface where the majority of the soil borings were placed is asphalt, with some areas of brush and weeds. The surface is underlain by light-brown-to-white, silty oolitic sand. This lithology extends to at least 25 feet bls, which was the maximum depth drilled during the investigation. Due to the homogeneity of the subsurface, no lithologic cross-section was constructed. Soil boring logs are included in Appendix B.

3.2 SITE HYDROGEOLOGY

Hydrogeologic data were collected during the site assessment to evaluate movement of groundwater in the shallow surficial aquifer at the site. Depth to groundwater and groundwater elevation were used to determine the groundwater flow direction and hydraulic gradient for the shallow surficial aquifer at the site. The hydraulic conductivity for the shallow surficial aquifer was obtained from slug tests conducted during the initial Site Assessment (BBL, 2002). Groundwater flow velocity at the site was estimated from the hydraulic conductivity and gradient data.

3.2.1 SWL and Groundwater Elevations

SWL data were collected from site monitoring wells during gauging events in February and May 2004. The SWL data and the elevations from the well TOC survey were used to determine a groundwater elevation at each well for the two gauging events. Groundwater elevation measurements in shallow monitoring wells ranged from 0.58 to 2.17 feet on February 6, 2004 and from 0.38 to 2.12 feet on May 20, 2004 (Table 3-1).

3.2.2 Groundwater Flow Direction

To evaluate the direction of groundwater flow at the site, the groundwater elevations were plotted on site maps for each gauging event (Figures 3-1 and 3-2). Groundwater elevation isocontours were calculated from the plotted data. Groundwater flow direction is normally perpendicular to the elevation isocontours. Interpretation of data from the February 2004 gauging event indicated a flow to the east, while the May 2004 event indicated radial flow with a primarily southerly component. This inconsistent pattern of groundwater movement is indicative of tidal influence on the surficial aquifer.

3.2.3 Water Table Gradient

The average hydraulic gradient across the site was calculated for each gauging event from the groundwater elevations measured in shallow monitoring wells and the estimated groundwater flow direction.

The groundwater flow gradient was determined by using the following equation:

$$i = \frac{h_1 - h_2}{d}$$

Where:

- i = the hydraulic gradient
- h_1 = the water elevation at point 1, the highest value
- h_2 = the water elevation at point 2, the lowest value
- d = the horizontal distance between point 1 and point 2, parallel to the direction of groundwater flow

Groundwater elevation values measured in shallow monitoring wells during each gauging event were used to determine the difference in groundwater elevation across the site. The horizontal distance between the high and low groundwater elevation points was measured parallel to the estimated groundwater flow direction.

On February 6, 2004, the groundwater elevation in G01-MW-10 was 0.74 feet and the groundwater elevation in G01-MW-05 was 0.63 feet. The horizontal distance parallel to groundwater flow was 98.9 feet. These data indicate an average hydraulic gradient of 0.0011 feet/foot.

On May 20, 2004, the groundwater elevation in G01-MW-12 was 0.92 feet and the groundwater elevation in G01-MW-04 was 0.41 feet. The horizontal distance parallel to groundwater flow was 117.5 feet. These data indicate an average hydraulic gradient of 0.0043 feet/foot.

The average of the two calculated gradient values is 0.0027 feet/foot.

3.2.4 Hydraulic Conductivity

Hydraulic conductivity values for the site were obtained from the initial Site Assessment Reports for Geiger Key Hawk Missile Site (BBL, 2002). BBL performed slug tests on shallow wells G01-MW-02 and -03, and vertical extent well G01-MW-01A on November 14, 2001. The hydraulic conductivity (K) in the test was calculated using the Bouwer and Rice (1976, 1989) methods for partially penetrating wells screened in unconfined aquifers. The average K value (calculated from the data collected from two wells) was estimated to be 0.40 feet per day for the upper 12 feet of the aquifer. The hydraulic conductivity for the zone from 20-25 feet bls was determined to be 8.879 feet per day. The slug test data from the SAR is presented in Appendix F.

3.2.5 Groundwater Flow Velocity

Potential movement of groundwater at the site may be described in terms of transportation by natural flow in the saturated zone, while assuming that groundwater flow follows Darcy's Law. Darcy's Law may be expressed as:

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

Where:

V = groundwater flow velocity
K = average hydraulic conductivity
n = effective porosity
i = average hydraulic gradient

Data from soil borings advanced during the DPT investigation indicate that oolitic limestone is the typical lithology at the site. Review of standard references suggests that a representative effective porosity for weathered oolitic limestone is approximately 30 percent (Davis and Deweist, 1966).

Setting K=0.4 feet per day for shallow groundwater flow, i=0.0027 feet/foot, and n=0.30, V for the shallow zone was calculated at 0.0036 feet per day.

3.2.6 Potable Water Supply Well Survey

No freshwater public or registered domestic wells are in use on NAS Key West (ABB, 1995). Some residences in Key West have wells that withdraw water from the surficial aquifer for non-potable uses. The Florida Keys Aqueduct Authority (FKAA) operates and maintains the Florida Keys Aqueduct, which supplies potable water to all of the Keys. This water is drawn from wells near Florida City in southeastern Dade County. It is pumped 130 miles through a water main that parallels U.S. Highway 1 and terminates in Key West. The Monroe County Health Department recognizes the public water supply as the only potable water source available in Key West.

Alternative sources of potable water and non-potable water used in the Keys include private cisterns, private wells utilizing reverse osmosis, home desalination systems, and bottled water. The number of people who may be using water from these alternative sources is unknown. The best estimate of the number of people using local groundwater for non-potable domestic purposes is less than 500 (ABB, 1995).

3.2.7 Tidal Influence

Groundwater fluctuations were measured in three monitoring wells, G01-MW-03, -10, and -12 during a 48-hour period. The maximum fluctuation was observed in monitoring well G01-MW-03, with a fluctuation of approximately 0.30 feet in water level during the day cycle, while the night cycle was 0.15 feet. This data suggests that there is a tidal influence on the surficial aquifer at the site.

As hypothesized, water-level data recorded from monitoring wells during the tidal study indicate that the groundwater cycles semi-diurnally with the tides. Following low tides, the SWLs recorded in the monitoring well were at the lowest elevation. Likewise, high tides were followed by the highest water levels, indicating that the groundwater fluctuation corresponds with the tide cycle. A lag of approximately 30 to 90 minutes was seen behind the tide measurements from a station in Key West (Station Number 8724580). The data from the tidal survey is provided in Appendix E.

3.3 SURFACE WATER

The Atlantic Ocean is located approximately 750 feet to the south and east of the site. Two lagoons are also located 500 feet to the northeast and 375 feet to the west of the study area.

TABLE 3-1

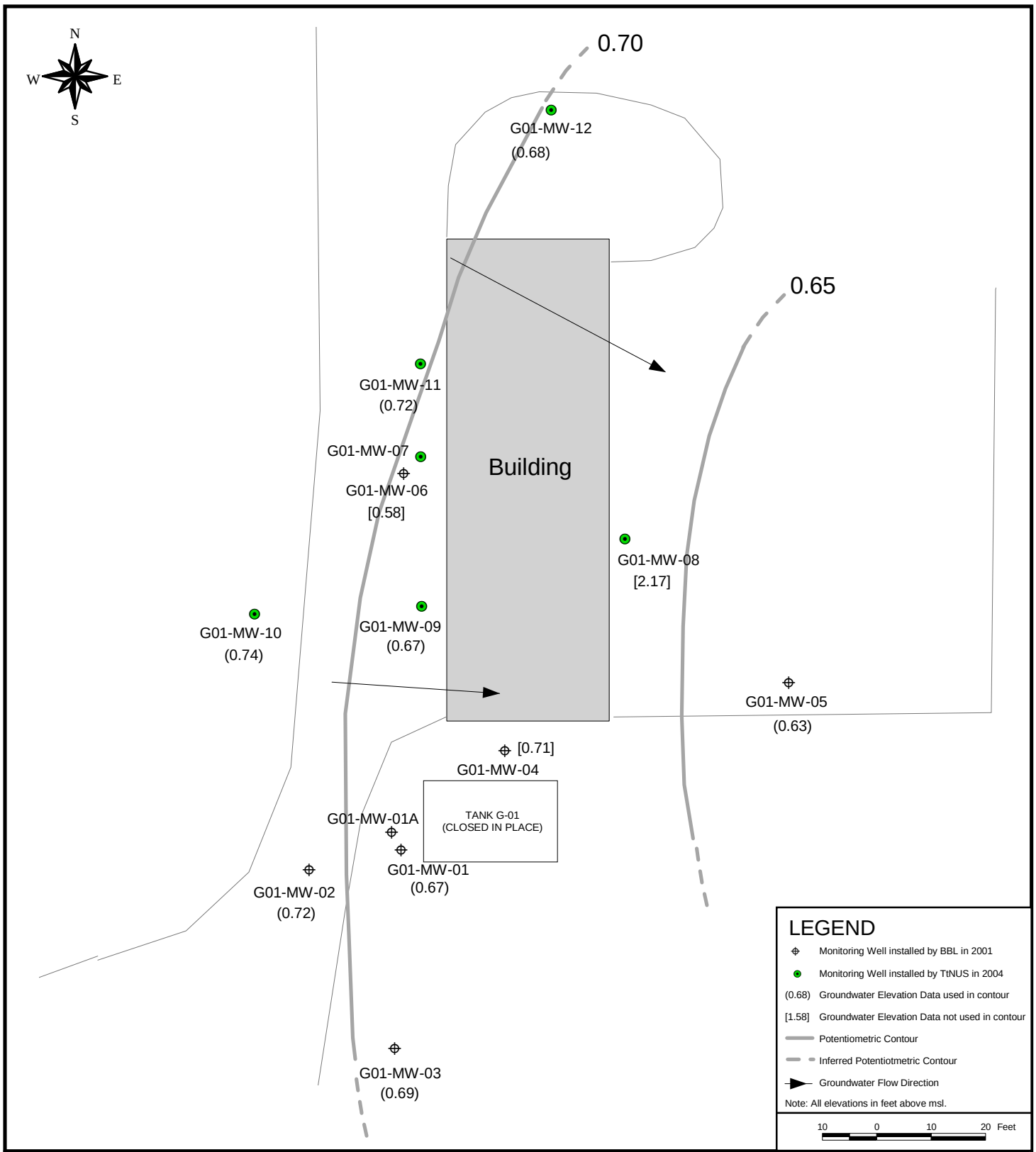
GROUNDWATER ELEVATION SUMMARY
GEIGER KEY HAWK MISSILE SITE G-01
SUPPLEMENTAL SITE ASSESSMENT REPORT
NAVAL AIR STATION
KEY WEST, FLORIDA

Well No.	G01-MW-01			G01-MW-01A			G01-MW-02			G01-MW-03			G01-MW-04		
Well Diameter	2 inches			2 inches			2 inches			2 inches			2 inches		
Well Depth (bls)	12			25			12			12			12		
Screened Interval (bls)	2-12			20-25			2-12			2-12			2-12		
TOC Elevation (above msl)	4.80			4.84			4.22			3.02			4.81		
Date	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**
2/6/2004	0.67	4.13	ND	0.59	4.25	ND	0.72	3.50	ND	0.69	2.33	ND	0.71	4.10	ND
5/20/2004	0.38	4.42	ND	1.10	3.74	ND	0.47	3.75	ND	0.62	2.40	ND	0.41	4.40	ND

Well No.	G01-MW-05			G01-MW-06			G01-MW-07			G01-MW-08			G01-MW-09		
Well Diameter	2 inches			2 inches			2 inches			2 inches			2 inches		
Well Depth (bls)	12			12			25			12			12		
Screened Interval (bls)	2-12			2-12			20-25			2-12			2-12		
TOC Elevation (above msl)	3.93			4.99			4.89			5.57			5.22		
Date	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**
2/6/2004	0.63	3.30	ND	0.58	4.41	0.06	0.25	4.64	ND	2.17	3.40	ND	0.67	4.55	ND
5/20/2004	0.52	3.41	ND	0.84	4.15	0.05	0.68	4.21	ND	2.12	3.45	ND	0.67	4.55	ND

Well No.	G01-MW-10			G01-MW-11			G01-MW-12		
Well Diameter	2 inches			2 inches			2 inches		
Well Depth (bls)	12			12			12		
Screened Interval (bls)	2-12			2-12			2-12		
TOC Elevation (above msl)	4.58			5.20			4.47		
Date	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**
2/6/2004	0.74	3.84	ND	0.72	4.48	ND	0.68	3.79	ND
5/20/2004	0.69	3.89	ND	0.67	4.53	ND	0.92	3.55	ND

NOTES:
Measurements in feet except for well diameter.
TOC elevations surveyed by Island Surveying and Mapping in August 2003 and May 2004 (NGVD 29).
TOC Top of casing
ELEV Groundwater Elevation (msl)
DTW Depth to water (below TOC)
FP Free product thickness
ND Not detected
bls below land surface
msl mean sea level



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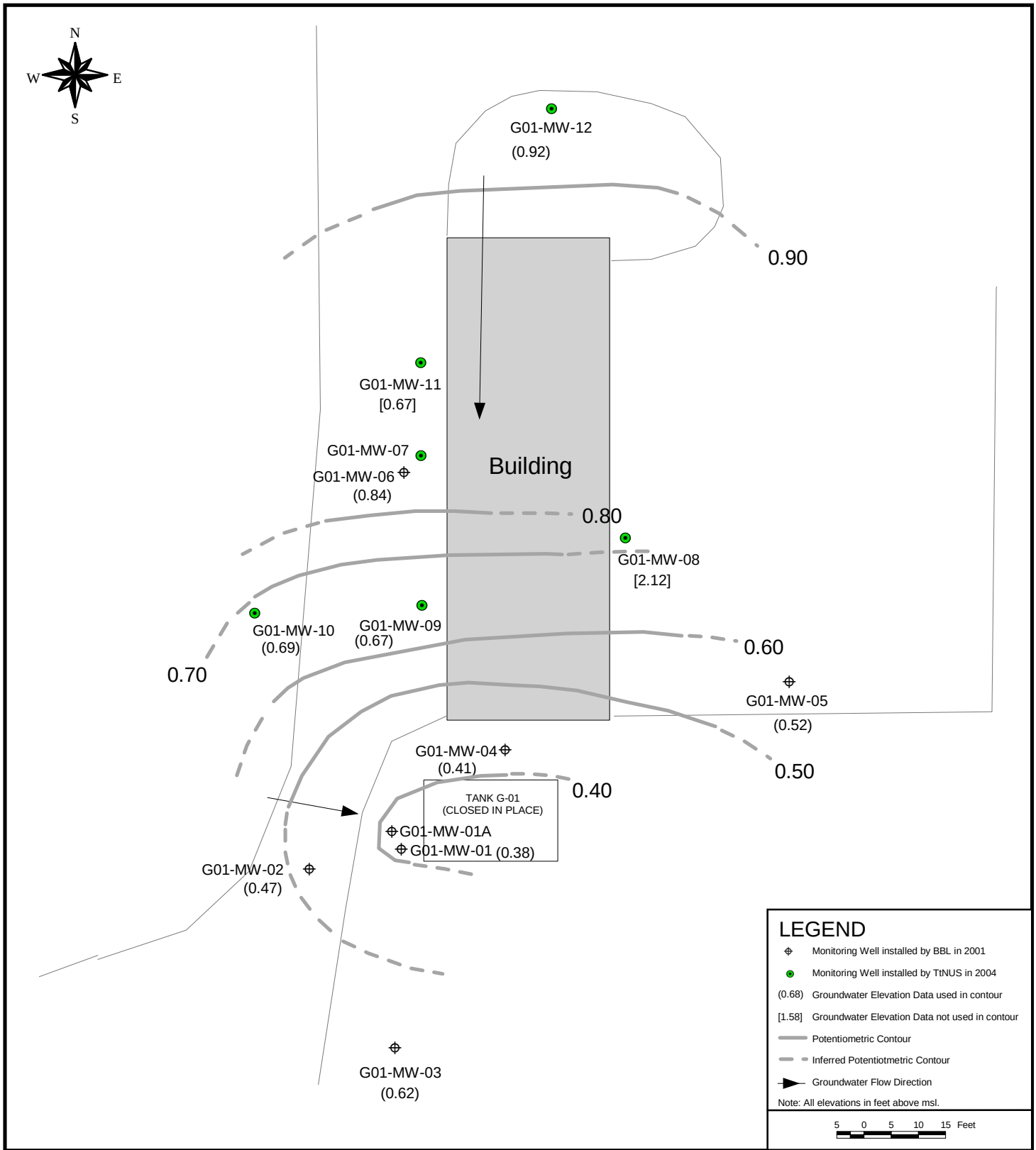
COST/SCHED-AREA	
SCALE	AS NOTED

SUPPLEMENTAL SITE ASSESSMENT REPORT
FOR
GEIGER KEY HAWK MISSILE SITE G-01
GROUNDWATER ELEVATION CONTOUR MAP
FEBRUARY 2004
NAVAL AIR STATION
KEY WEST, FLORIDA

CONTRACT NO.	N4779
APPROVED BY CMB	DATE 08/13/2004
APPROVED BY	DATE
FIGURE NO.	3-1
REV.	0

K:\GEIGER KEY SUP SAR.APR LAYOUT: FIGURE 3-1 SSAR REV. 0 BY:EHM DATE: 08/26/2004



NO.	DATE	REVISIONS

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CHECKED BY MD	DATE 08/12/2004
COST/SCHED-AREA	
SCALE AS NOTED	

SUPPLEMENTAL SITE ASSESSMENT REPORT
FOR
GEIGER KEY HAWK MISSILE SITE G-01
GROUNDWATER ELEVATION CONTOUR MAP
MAY 2004
NAVAL AIR STATION
KEY WEST, FLORIDA

CONTRACT NO.	N4779
APPROVED BY CMB	DATE 08/13/2004
APPROVED BY ____	DATE ____
FIGURE NO.	3-2
REV.	0

K:\GEIGER KEY SUP SAR.APR LAYOUT: FIGURE 3-2 SSAR REV. 0 BY:EHM DATE: 08/26/2004

4.0 SITE ASSESSMENT RESULTS

Soil samples were collected at Geiger Key Hawk Missile Site G-01 for headspace screening and/or laboratory analysis. Groundwater samples were collected from each soil boring during the groundwater assessment. Monitoring wells were installed based on the results of the initial soil and groundwater assessment, and samples collected from newly and previously installed monitoring wells. The results of groundwater analyses were compared to the FDEP GCTLs, listed in Chapter 62-777, FAC Table I.

4.1 SOIL ASSESSMENT RESULTS

4.1.1 DPT Headspace Screening

A DPT investigation was conducted to estimate the extent of petroleum-impacted soil at the site. Vadose zone soils were evaluated for headspace vapor screening. A summary of soil organic vapor analyzer (OVA) screening results is presented in Table 4-1. Soil boring locations and vapor readings are depicted on Figure 4-1. Excessively contaminated soil, as defined in Chapter 62-770.200(12), FAC was identified in multiple borings.

4.1.2 Laboratory Soil Sample Analysis

During the DPT investigation, three soil samples were collected for laboratory analysis. The samples were collected from G01-SB-01 (low headspace reading), G01-SB-05 (medium headspace reading), and G01-SB-19 (high headspace reading) and each sample was analyzed for BTEX, MTBE, PAHs, and TRPH (Figure 4-1). Analytical validation reports can be found in Appendix C.

TRPH was detected in soil samples G01-SB-01 and G01-SB-19 at concentrations of 83 and 82 milligrams per kilogram (mg/kg), respectively. The TRPH detections were less than the residential SCTL. No other petroleum constituents were detected in soil samples. The soil analytical results are presented in Table 4-2 and shown in Figure 4-2.

4.2 GROUNDWATER ASSESSMENT RESULTS

4.2.1 DPT Assessment

Groundwater samples were collected from each soil boring advanced during the DPT investigation. Results of the investigation are depicted on Figure 4-3. The groundwater samples were analyzed for BTEX, MTBE, and PPL VOHs. Groundwater samples from soil borings immediately adjacent to the building were also analyzed for PAHs.

Several GCTLs were exceeded in groundwater screening samples, particularly in samples collected from boreholes immediately adjacent to the building. Benzene exceeded its GCTL in seven groundwater screening samples from the west side of the building, while ethylbenzene exceeded its GCTL in two of those samples. PAHs make up the remaining exceedances, with naphthalenes exceeding GCTLs in eight samples. The groundwater screening sample detections are shown in Table 4-3. Locations of all groundwater screening exceedances are shown on Figure 4-3.

4.2.2 Monitoring Well Sampling

Groundwater samples were collected from the 13 on-site monitoring wells in February and May 2004 and analyzed at an off-site laboratory for BTEX, MTBE, PPL VOHs, PAHs, EDB, TRPH, and lead. Several samples were also analyzed for additional inorganics (arsenic, cadmium, and chromium) and additional volatile and semi-volatile constituents to determine if used oil from the former Maintenance Building could be a source of contamination.

During the February 2004 sampling event, benzene was the only volatile compound to exceed its GCTL, with concentrations of 5 and 2 micrograms per liter (μg/L) in monitoring wells G01-MW-06 and -09, respectively. As with the groundwater screening samples, 1-methylnaphthalene, 2-methylnapthlane, and naphthalene exceeded GCTLs in groundwater collected from several monitoring wells, including G01-MW-08, -10, -11, and -12. Acenaphthene exceeded its GCTL in groundwater from EDB and lead were not detected in any monitoring wells during the February 2004 sampling event. Arsenic was detected in two monitoring wells, but was below its GCTL. TRPH was detected in the majority of the monitoring wells during the February 2004 sampling event, but only exceeded the GCTL in G01-MW-06. As shown in Table 3-1 and Figure 4-4, 0.06 feet of free product was detected in monitoring well G01-MW-06. Despite the presence of product, a sample was collected in attempt to gain more information concerning dissolved CoC concentrations in groundwater from the monitoring well. Therefore, detections in G01-MW-06 may be more representative of the product in the well, rather than dissolved concentrations in the groundwater. February 2004 detections are reported in Table 4-4 and the locations of exceedances are shown on Figure 4-4.

During the May 2004 sampling event, benzene was the only volatile compound that exceeded its GCTL in groundwater (in G01-MW-08) with a concentration of 6 μg/L. Naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene again exceeded their GCTLs in several samples. Acenaphthene persists in well G01-MW-05 at a level above its GCTL, and another PAH, benzo(b)fluoranthene, exceeded its GCTL in the vertical extent well G01-MW-07. TRPH was detected in most monitoring wells, but was below its GCTL. Lead and EDB were not detected in groundwater samples from the May 2004 event. Monitoring well G01-MW-06 contained free product (0.05 feet) in May 2004, as it did in February 2004. The monitoring well

was not sampled in May 2004. Laboratory results are summarized in Table 4-5. GCTL exceedances are shown on Figure 4-5.

As noted, free product was observed in G01-MW-06 in February 2004 (0.06 feet) and May 2004 (0.05 feet). Free product was not detected in other shallow monitoring wells or during the DPT assessment. Figure 2-1 shows the proximity of G01-MW-06 to surrounding DPT locations. The maximum extent of free product above the water table based on the surrounding DPT locations (G01-SB-12, -13, -16, and -17) is shown on Figures 4-4 and 4-5. The maximum estimated amount of free product based on the approximate 25-foot diameter circle shown in Figures 4-4 and 4-5 is approximately 220 gallons.

4.3 NATURAL ATTENUATION SAMPLING

Groundwater samples were also analyzed at a fixed-base laboratory for sulfate, nitrate, and methane during both events. Field test kits were used measure DO and CO_2 in groundwater from newly installed monitoring wells in February 2004 and all monitoring wells in May 2004. Results are reported in Table 4-5.

Methane concentrations were highest in monitoring well G01-MW-05, -08, -09, -10, -11, and -12 during both events. Sulfate concentrations were highest in monitoring wells G01-MW-01, -01A, -02, -04, and -07. Nitrate was not detected in several monitoring wells, but the maximum detected concentration was 0.25 milligrams per liter (mg/L) in monitoring well G01-MW-08 in May 2004. DO concentrations were 1.0 mg/L or less in groundwater collected from all monitoring wells. Overall, DO concentrations in newly installed monitoring wells seemed to be less in May than in February 2004. However, CO_2 concentrations generally measured higher in May 2004 groundwater samples.

TABLE 4-1

**SOIL HEADSPACE ANALYTICAL RESULTS
GEIGER KEY HAWK MISSILE SITE G-01
SUPPLEMENTAL SITE ASSESSMENT REPORT
NAVAL AIR STATION
KEY WEST, FLORIDA
PAGE 1 OF 2**

SOIL BORING LOCATION	DATE COLLECTED	DEPTH TO WATER (feet bls)	SAMPLE INTERVAL (feet bls)	TOTAL FID READING (ppm)
G01-SB-01	11/13/2003	3	0-2	0
G01-SB-02	11/13/2003	3	0-2	0
G01-SB-03	11/13/2003	3	0-2	2
G01-SB-04	11/13/2003	3	0-2	5
G01-SB-05	11/13/2003	3	0-2	170
G01-SB-06	11/13/2003	3	0-2	65
G01-SB-07	11/13/2003	3	0-2	57
G01-SB-08	11/13/2003	3	0-2	52
G01-SB-09	11/13/2003	3	0-2	10
G01-SB-10	11/13/2003	3	0-2	0
G01-SB-11	11/13/2003	3	0-2	65
G01-SB-12	11/14/2003	3	0-2	68
G01-SB-13	11/14/2003	3	0-2	21
G01-SB-14	11/14/2003	3	0-2	32
G01-SB-15	11/14/2003	3	0-2	65
G01-SB-16	11/14/2003	3	0-2	40
G01-SB-17	11/14/2003	3	0-2	5.2
G01-SB-18	11/14/2003	3	0-2	21.1
G01-SB-19	11/14/2003	3	0-2	301
G01-SB-20	11/14/2003	3	0-2	97.4
G01-SB-21	11/14/2003	3	0-2	20.1
G01-SB-22	11/14/2003	3	0-2	24
G01-SB-23	11/15/2003	3	0-2	42
G01-SB-24	11/15/2003	3	0-2	170
G01-SB-25	11/15/2003	3	0-2	210
G01-SB-26	11/15/2003	3	0-2	75.1
G01-SB-27	11/15/2003	3	0-2	79.2
G01-SB-28	11/15/2003	3	0-2	46.2
G01-SB-29	11/15/2003	3	0-2	57.4
G01-SB-30	11/15/2003	3	0-2	16.4
G01-SB-31	11/15/2003	3	0-2	51.9
G01-SB-32	11/15/2003	3	0-2	22.6

TABLE 4-1

**SOIL HEADSPACE ANALYTICAL RESULTS
GEIGER KEY HAWK MISSILE SITE G-01
SUPPLEMENTAL SITE ASSESSMENT REPORT
NAVAL AIR STATION
KEY WEST, FLORIDA
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SOIL BORING LOCATION	DATE COLLECTED	DEPTH TO WATER (feet bls)	SAMPLE INTERVAL (feet bls)	TOTAL FID READING (ppm)
G01-SB-33	11/16/2003	3	0-2	25
G01-SB-34	11/16/2003	2.5	0-2	21
G01-SB-35	11/16/2003	2.5	0-2	13
G01-SB-36	11/16/2003	2.5	0-2	26
G01-SB-37	11/16/2003	2.5	0-2	26
G01-SB-38	11/16/2003	2.5	0-2	121
G01-SB-39	11/16/2003	2.5	0-2	150
G01-SB-40	11/16/2003	2.5	0-2	125
G01-SB-41	11/16/2003	2.5	0-2	29
G01-SB-42	11/16/2003	2.5	0-2	80
G01-SB-43	11/17/2003	2.5	0-2	80.4
G01-SB-44	11/17/2003	2.5	0-2	73
G01-SB-45	11/17/2003	2.5	0-2	23
G01-SB-46	11/17/2003	2.5	0-2	11.6
G01-SB-47	11/17/2003	2.5	0-2	1.5
G01-SB-48	11/17/2003	2.5	0-2	1.7
G01-SB-49	11/17/2003	2.5	0-2	4.2
G01-SB-50	11/17/2003	2.5	0-2	6.2
G01-SB-51	11/17/2003	2.5	0-2	12
G01-SB-52	11/17/2003	2.5	0-2	21.5

Notes:
All samples with positive FID readings were measured a second time using the FID with a GAC filter for vapor readings due to organic constituents. However, no response was observed on any sample, therefore, the Total FID reading is only shown in the table.

bls Below land surface
ppm Parts per million
FID Flame Ionization Detector

TABLE 4-2

SOIL ANALYTICAL RESULTS, NOVEMBER 2003
GEIGER KEY HAWK MISSILE SITE G-01
SUPPLEMENTAL SITE ASSESSMENT REPORT
NAVAL AIR STATION
KEY WEST, FLORIDA

DEPTH (feet bls)	LOCATION	PARAMETER	RESULT (mg/kg)	QUAL.[(a)]	SCTL[(b)] (mg/kg)
Total Recoverable Petroleum Hydrocarbons					
0-2	G01-SB-01	Total Petroleum Hydrocarbons	83		340
0-2	G01-SB-19-AVG	Total Petroleum Hydrocarbons	82	J	

Notes:
The notation "-AVG" indicates that duplicate samples were collected and averaged for the reported result.
(a) Qualifier (Qual.)Codes:
J – The result is an estimated quantity.
(b) Soil Cleanup Target Level (SCTL), Residential Criteria for direct exposure as listed in Chapter 62-777, FAC, Table II.
bls below land surface
mg/kg milligram per kilogram

TABLE 4-3

GROUNDWATER SCREENING ANALYTICAL RESULTS, NOVEMBER 2003
GEIGER KEY HAWK MISSILE SITE G-01
SUPPLEMENTAL SITE ASSESSMENT REPORT
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LOCATION	PARAMETER	RESULT (µg/L)	QUAL[a]	GCTL[b] (µg/L)
VOLATILE ORGANIC COMPOUNDS				
G01-GS-18-1103	1,1-DICHLOROETHANE	0.3	J	70
G01-GS-05-1103	BENZENE	2		1
G01-GS-06-1103	BENZENE	0.3	J	
G01-GS-09-1103	BENZENE	5		
G01-GS-10-1103	BENZENE	11		
G01-GS-11-1103	BENZENE	13	J	
G01-GS-12-1103	BENZENE	6	J	
G01-GS-13-1103	BENZENE	0.4	J	
G01-GS-14-1103	BENZENE	0.2	J	
G01-GS-16-1103	BENZENE	8	J	
G01-GS-17-1103	BENZENE	0.1	J	
G01-GS-19-1103	BENZENE	4	J	
G01-GS-22-1103	BENZENE	0.5	J	
G01-GS-30-1103	BENZENE	0.1	J	
G01-GS-32-1103	BENZENE	0.1	J	
G01-GS-40-1103	BENZENE	0.2	J	
G01-GS-10-1103	CIS-1,2-DICHLOROETHENE	0.6	J	70
G01-GS-11-1103	CIS-1,2-DICHLOROETHENE	1		
G01-GS-04-1103	ETHYLBENZENE	0.7	J	30
G01-GS-05-1103	ETHYLBENZENE	6		
G01-GS-06-1103	ETHYLBENZENE	2		
G01-GS-07-1103	ETHYLBENZENE	0.3	J	
G01-GS-08-1103	ETHYLBENZENE	0.2	J	
G01-GS-09-1103	ETHYLBENZENE	26		
G01-GS-10-1103	ETHYLBENZENE	21		
G01-GS-11-1103	ETHYLBENZENE	28		
G01-GS-12-1103	ETHYLBENZENE	39		
G01-GS-16-1103	ETHYLBENZENE	52		
G01-GS-22-1103	ETHYLBENZENE	24		
G01-GS-28-1103	ETHYLBENZENE	0.1	J	
G01-GS-29-1103	ETHYLBENZENE	0.8	J	
G01-GS-30-1103	ETHYLBENZENE	1		
G01-GS-31-1103	ETHYLBENZENE	3		
G01-GS-32-1103	ETHYLBENZENE	5		
G01-GS-33-1103	ETHYLBENZENE	0.7	J	
G01-GS-34-1103	ETHYLBENZENE	0.1	J	

TABLE 4-3

GROUNDWATER SCREENING ANALYTICAL RESULTS, NOVEMBER 2003
GEIGER KEY HAWK MISSILE SITE G-01
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NAVAL AIR STATION
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LOCATION	PARAMETER	RESULT (µg/L)	QUAL[a]	GCTL[b] (µg/L)
G01-GS-35-1103	ETHYLBENZENE	0.1	J	30
G01-GS-36-1103	ETHYLBENZENE	0.1	J	
G01-GS-39-1103	ETHYLBENZENE	1		
G01-GS-40-1103	ETHYLBENZENE	1		
G01-GS-41-1103	ETHYLBENZENE	0.2	J	
G01-GS-43-1103	ETHYLBENZENE	2		
G01-GS-44-1103	ETHYLBENZENE	0.2	J	
G01-GS-46-1103	ETHYLBENZENE	0.3	J	
G01-GS-28-1103	M+P-XYLENES	0.2	J	20
G01-GS-29-1103	M+P-XYLENES	0.2	J	
G01-GS-30-1103	M+P-XYLENES	0.2	J	
G01-GS-31-1103	M+P-XYLENES	0.2	J	
G01-GS-32-1103	M+P-XYLENES	0.2	J	
G01-GS-33-1103	M+P-XYLENES	0.2	J	
G01-GS-35-1103	M+P-XYLENES	0.2	J	
G01-GS-36-1103	M+P-XYLENES	0.2	J	
G01-GS-39-1103	M+P-XYLENES	3		
G01-GS-40-1103	M+P-XYLENES	0.2	J	
G01-GS-44-1103	M+P-XYLENES	0.3	J	
G01-GS-46-1103	M+P-XYLENES	0.2	J	
G01-GS-29-1103	O-XYLENE	0.3	J	20
G01-GS-30-1103	O-XYLENE	0.2	J	
G01-GS-31-1103	O-XYLENE	0.5	J	
G01-GS-32-1103	O-XYLENE	0.2	J	
G01-GS-39-1103	O-XYLENE	3		
G01-GS-44-1103	O-XYLENE	0.3	J	
G01-GS-32-1103	TOLUENE	0.2	J	40
G01-GS-39-1103	TOLUENE	1		
G01-GS-44-1103	TOLUENE	0.2	J	
G01-GS-28-1103	TOTAL XYLENES	0.2	J	20
G01-GS-29-1103	TOTAL XYLENES	0.5	J	
G01-GS-30-1103	TOTAL XYLENES	0.4	J	
G01-GS-31-1103	TOTAL XYLENES	0.7	J	
G01-GS-32-1103	TOTAL XYLENES	0.4	J	
G01-GS-33-1103	TOTAL XYLENES	0.2	J	
G01-GS-35-1103	TOTAL XYLENES	0.2	J	
G01-GS-36-1103	TOTAL XYLENES	0.2	J	

TABLE 4-3

GROUNDWATER SCREENING ANALYTICAL RESULTS, NOVEMBER 2003
GEIGER KEY HAWK MISSILE SITE G-01
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LOCATION	PARAMETER	RESULT (µg/L)	QUAL[a]	GCTL[b] (µg/L)
G01-GS-39-1103	TOTAL XYLENES	6		20
G01-GS-40-1103	TOTAL XYLENES	0.2	J	
G01-GS-44-1103	TOTAL XYLENES	0.6	J	
G01-GS-46-1103	TOTAL XYLENES	0.2	J	
POLYNUCLEAR AROMATIC HYDROCARBONS				
G01-GS-11-1103	1-METHYLNAPHTHALENE	24		20
G01-GS-12-1103	1-METHYLNAPHTHALENE	100		
G01-GS-16-1103	1-METHYLNAPHTHALENE	150		
G01-GS-19-1103	1-METHYLNAPHTHALENE	30		
G01-GS-22-1103	1-METHYLNAPHTHALENE	2,100	J	
G01-GS-31-1103	1-METHYLNAPHTHALENE	15		
G01-GS-32-1103	1-METHYLNAPHTHALENE	39		
G01-GS-33-1103	1-METHYLNAPHTHALENE	2		
G01-GS-36-1103	1-METHYLNAPHTHALENE	1.8		
G01-GS-38-1103	1-METHYLNAPHTHALENE	5		
G01-GS-40-1103	1-METHYLNAPHTHALENE	13		
G01-GS-43-1103	1-METHYLNAPHTHALENE	33		
G01-GS-46-1103	1-METHYLNAPHTHALENE	2.4		
G01-GS-48-1103	1-METHYLNAPHTHALENE	0.36		
G01-GS-11-1103	2-METHYLNAPHTHALENE	23		20
G01-GS-12-1103	2-METHYLNAPHTHALENE	120		
G01-GS-16-1103	2-METHYLNAPHTHALENE	110		
G01-GS-19-1103	2-METHYLNAPHTHALENE	22		
G01-GS-22-1103	2-METHYLNAPHTHALENE	2,300	J	
G01-GS-31-1103	2-METHYLNAPHTHALENE	1.6		
G01-GS-32-1103	2-METHYLNAPHTHALENE	41		
G01-GS-33-1103	2-METHYLNAPHTHALENE	2.2		
G01-GS-36-1103	2-METHYLNAPHTHALENE	1.9		
G01-GS-38-1103	2-METHYLNAPHTHALENE	4.1		
G01-GS-40-1103	2-METHYLNAPHTHALENE	8.6		
G01-GS-43-1103	2-METHYLNAPHTHALENE	24		
G01-GS-46-1103	2-METHYLNAPHTHALENE	1.4		
G01-GS-48-1103	2-METHYLNAPHTHALENE	0.36		
G01-GS-11-1103	ACENAPHTHENE	0.48		20
G01-GS-12-1103	ACENAPHTHENE	5	J	
G01-GS-16-1103	ACENAPHTHENE	13	J	
G01-GS-19-1103	ACENAPHTHENE	0.79		

TABLE 4-3

GROUNDWATER SCREENING ANALYTICAL RESULTS, NOVEMBER 2003
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LOCATION	PARAMETER	RESULT (µg/L)	QUAL[a]	GCTL[b] (µg/L)
G01-GS-22-1103	ACENAPHTHENE	180	J	20
G01-GS-31-1103	ACENAPHTHENE	4.2		
G01-GS-32-1103	ACENAPHTHENE	2		
G01-GS-33-1103	ACENAPHTHENE	0.83		
G01-GS-36-1103	ACENAPHTHENE	0.38		
G01-GS-38-1103	ACENAPHTHENE	0.2		
G01-GS-40-1103	ACENAPHTHENE	0.76		
G01-GS-43-1103	ACENAPHTHENE	2.1		
G01-GS-46-1103	ACENAPHTHENE	2.5		
G01-GS-48-1103	ACENAPHTHENE	0.091	J	
G01-GS-11-1103	ACENAPHTHYLENE	0.078	J	210
G01-GS-33-1103	ACENAPHTHYLENE	0.071	J	
G01-GS-16-1103	ANTHRACENE	1.8		2,100
G01-GS-31-1103	ANTHRACENE	0.39		
G01-GS-43-1103	ANTHRACENE	0.26		
G01-GS-16-1103	FLUORANTHENE	0.65		280
G01-GS-11-1103	FLUORENE	0.76		280
G01-GS-12-1103	FLUORENE	7	J	
G01-GS-16-1103	FLUORENE	17	J	
G01-GS-19-1103	FLUORENE	0.87		
G01-GS-22-1103	FLUORENE	260	J	
G01-GS-31-1103	FLUORENE	5.9		
G01-GS-32-1103	FLUORENE	2.7		
G01-GS-33-1103	FLUORENE	0.79		
G01-GS-36-1103	FLUORENE	0.48		
G01-GS-38-1103	FLUORENE	0.21		
G01-GS-40-1103	FLUORENE	0.66		
G01-GS-43-1103	FLUORENE	2.3	J	
G01-GS-46-1103	FLUORENE	1.5		
G01-GS-11-1103	NAPHTHALENE	55		20
G01-GS-12-1103	NAPHTHALENE	120		
G01-GS-16-1103	NAPHTHALENE	48		
G01-GS-19-1103	NAPHTHALENE	43		
G01-GS-22-1103	NAPHTHALENE	510	J	
G01-GS-31-1103	NAPHTHALENE	1.7		
G01-GS-32-1103	NAPHTHALENE	25		

TABLE 4-3

GROUNDWATER SCREENING ANALYTICAL RESULTS, NOVEMBER 2003
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LOCATION	PARAMETER	RESULT (µg/L)	QUAL[a]	GCTL[b] (µg/L)
G01-GS-33-1103	NAPHTHALENE	0.81		20
G01-GS-36-1103	NAPHTHALENE	0.78		
G01-GS-38-1103	NAPHTHALENE	2		
G01-GS-40-1103	NAPHTHALENE	32		
G01-GS-43-1103	NAPHTHALENE	17		
G01-GS-46-1103	NAPHTHALENE	2.2		
G01-GS-48-1103	NAPHTHALENE	0.47		
G01-GS-11-1103	PHENANTHRENE	0.75		210
G01-GS-12-1103	PHENANTHRENE	9	J	
G01-GS-16-1103	PHENANTHRENE	27		
G01-GS-19-1103	PHENANTHRENE	0.8		
G01-GS-22-1103	PHENANTHRENE	510	J	
G01-GS-31-1103	PHENANTHRENE	6.1		
G01-GS-32-1103	PHENANTHRENE	3.3	J	
G01-GS-33-1103	PHENANTHRENE	0.2		
G01-GS-36-1103	PHENANTHRENE	0.11	J	
G01-GS-38-1103	PHENANTHRENE	0.2		
G01-GS-40-1103	PHENANTHRENE	0.4		
G01-GS-43-1103	PHENANTHRENE	4.2	J	
G01-GS-46-1103	PHENANTHRENE	1.9		
G01-GS-16-1103	PYRENE	1.3		210
G01-GS-22-1103	PYRENE	25	J	
G01-GS-31-1103	PYRENE	0.17	J	

Shading indicates an exceedance of the GCTL.
(a) Qualifier (Qual.):
J – The result is an estimated quantity.
(b) Groundwater Cleanup Target Level (GCTL) as defined in Chapter 62-777, FAC, Table I.

TABLE 4-4

GROUNDWATER ANALYTICAL RESULTS, FEBRUARY 2004
GEIGER KEY HAWK MISSILE SITE G-01
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NAVAL AIR STATION
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LOCATION	PARAMETER	RESULT (µg/L)	QUAL[a]	GCTL[b] (µg/L)
METALS				
G01-MW-07-0204	ARSENIC	6.9		50
G01-MW-11-0204-AVG	ARSENIC	5.6		
VOLATILE ORGANIC COMPOUNDS				
G01-MW-09-0204	1,1-DICHLOROETHANE	0.5	J	70
G01-MW-11-0204-AVG	1,1-DICHLOROETHANE	1	J	
G01-MW-07-0204	ACETONE	2	J	700
G01-MW-11-0204-AVG	ACETONE	10.5	J	
G01-MW-06-0204	BENZENE	5		1
G01-MW-07-0204	BENZENE	0.1	J	
G01-MW-08-0204	BENZENE	0.3	J	
G01-MW-09-0204	BENZENE	2		
G01-MW-10-0204	BENZENE	0.3	J	
G01-MW-11-0204-AVG	BENZENE	1		
G01-MW-12-0204	BENZENE	0.1	J	
G01-MW-07-0204	CARBON DISULFIDE	0.7	J	700
G01-MW-11-0204-AVG	CARBON DISULFIDE	1.5		
G01-MW-05-0204	CHLOROBENZENE	0.1	J	100
G01-MW-07-0204	CIS-1,2-DICHLOROETHENE	0.4	J	70
G01-MW-09-0204	CIS-1,2-DICHLOROETHENE	0.8	J	
G01-MW-11-0204-AVG	CIS-1,2-DICHLOROETHENE	0.4	J	
G01-MW-06-0204	ETHYLBENZENE	3		30
G01-MW-07-0204	ETHYLBENZENE	0.4	J	
G01-MW-08-0204	ETHYLBENZENE	18		
G01-MW-09-0204	ETHYLBENZENE	4		
G01-MW-10-0204	ETHYLBENZENE	6		
G01-MW-11-0204-AVG	ETHYLBENZENE	8		
G01-MW-12-0204	ETHYLBENZENE	9		
G01-MW-06-0204	O-XYLENE	0.2	J	20
G01-MW-07-0204	TOTAL 1,2-DICHLOROETHENE	0.4	J	70
G01-MW-11-0204-AVG	TOTAL 1,2-DICHLOROETHENE	0.4	J	

TABLE 4-4

GROUNDWATER ANALYTICAL RESULTS, FEBRUARY 2004
GEIGER KEY HAWK MISSILE SITE G-01
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LOCATION	PARAMETER	RESULT (µg/L)	QUAL[a]	GCTL[b] (µg/L)
POLYNUCLEAR AROMATIC HYDROCARBONS				
G01-MW-05-0204	1-METHYLNAPHTHALENE	0.38		20
G01-MW-06-0204	1-METHYLNAPHTHALENE	18		
G01-MW-07-0204	1-METHYLNAPHTHALENE	8		
G01-MW-08-0204	1-METHYLNAPHTHALENE	130		
G01-MW-09-0204	1-METHYLNAPHTHALENE	11		
G01-MW-10-0204	1-METHYLNAPHTHALENE	56		
G01-MW-11-0204-AVG	1-METHYLNAPHTHALENE	46.5		
G01-MW-12-0204	1-METHYLNAPHTHALENE	61		
G01-MW-06-0204	2-METHYLNAPHTHALENE	1.1		20
G01-MW-07-0204	2-METHYLNAPHTHALENE	9.3		
G01-MW-08-0204	2-METHYLNAPHTHALENE	160		
G01-MW-09-0204	2-METHYLNAPHTHALENE	11		
G01-MW-10-0204	2-METHYLNAPHTHALENE	71		
G01-MW-11-0204-AVG	2-METHYLNAPHTHALENE	51		
G01-MW-12-0204	2-METHYLNAPHTHALENE	60		
G01-MW-04-0204	ACENAPHTHENE	0.32		20
G01-MW-05-0204	ACENAPHTHENE	46		
G01-MW-06-0204	ACENAPHTHENE	0.68		
G01-MW-07-0204	ACENAPHTHENE	0.66	J	
G01-MW-09-0204	ACENAPHTHENE	1		
G01-MW-10-0204	ACENAPHTHENE	3.3	J	
G01-MW-11-0204-AVG	ACENAPHTHENE	3.4	J	
G01-MW-12-0204	ACENAPHTHENE	5.3		
G01-MW-05-0204	ANTHRACENE	1.8		2,100
G01-MW-06-0204	ANTHRACENE	0.66		
G01-MW-05-0204	FLUORANTHENE	1.4		280
G01-MW-06-0204	FLUORANTHENE	0.16	J	
G01-MW-05-0204	FLUORENE	0.3		280
G01-MW-06-0204	FLUORENE	0.42		
G01-MW-07-0204	FLUORENE	0.94		
G01-MW-08-0204	FLUORENE	7.8	J	
G01-MW-09-0204	FLUORENE	0.91	J	
G01-MW-10-0204	FLUORENE	4.2	J	
G01-MW-11-0204-AVG	FLUORENE	4.15		
G01-MW-12-0204	FLUORENE	6.7		

TABLE 4-4

GROUNDWATER ANALYTICAL RESULTS, FEBRUARY 2004
GEIGER KEY HAWK MISSILE SITE G-01
SUPPLEMENTAL SITE ASSESSMENT REPORT
NAVAL AIR STATION
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LOCATION	PARAMETER	RESULT (µg/L)	QUAL[a]	GCTL[b] (µg/L)
G01-MW-06-0204	NAPHTHALENE	3		20
G01-MW-07-0204	NAPHTHALENE	2		
G01-MW-05-0204	NAPHTHALENE	0.4		
G01-MW-06-0204	NAPHTHALENE	3		
G01-MW-07-0204	NAPHTHALENE	2		
G01-MW-08-0204	NAPHTHALENE	96		
G01-MW-09-0204	NAPHTHALENE	7.5		
G01-MW-10-0204	NAPHTHALENE	47		
G01-MW-11-0204-AVG	NAPHTHALENE	40		
G01-MW-12-0204	NAPHTHALENE	28		
G01-MW-05-0204	PHENANTHRENE	0.17	J	210
G01-MW-06-0204	PHENANTHRENE	7.4		
G01-MW-07-0204	PHENANTHRENE	1.6		
G01-MW-08-0204	PHENANTHRENE	11	J	
G01-MW-09-0204	PHENANTHRENE	0.68	J	
G01-MW-10-0204	PHENANTHRENE	3.6	J	
G01-MW-11-0204-AVG	PHENANTHRENE	4.2	J	
G01-MW-12-0204	PHENANTHRENE	5.1		
G01-MW-05-0204	PYRENE	0.33		210
G01-MW-06-0204	PYRENE	0.17	J	
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS				
G01-MW-03-0204	TOTAL PETROLEUM HYDROCARBONS	300	J	5,000
G01-MW-04-0204	TOTAL PETROLEUM HYDROCARBONS	1,000		
G01-MW-05-0204	TOTAL PETROLEUM HYDROCARBONS	620		
G01-MW-06-0204	TOTAL PETROLEUM HYDROCARBONS	5,400		
G01-MW-07-0204	TOTAL PETROLEUM HYDROCARBONS	570		
G01-MW-08-0204	TOTAL PETROLEUM HYDROCARBONS	3,100		
G01-MW-09-0204	TOTAL PETROLEUM HYDROCARBONS	1,100		
G01-MW-10-0204	TOTAL PETROLEUM HYDROCARBONS	2,200		
G01-MW-11-0204-AVG	TOTAL PETROLEUM HYDROCARBONS	1,750		
G01-MW-12-0204	TOTAL PETROLEUM HYDROCARBONS	3,200		

Shading indicates an exceedance of the GCTL.
The notation "AVG" indicates that duplicate samples were collected and the results were averaged.
(a)Qualifier (Qual.):
J – Estimated value
(b)Groundwater Cleanup Target Level (GCTL) as defined in Chapter 62-777, FAC, Table I.

TABLE 4-5

LABORATORY GROUNDWATER ANALYTICAL RESULTS, MAY 2004
GEIGER KEY HAWK MISSILE SITE G-01
SUPPLEMENTAL SITE ASSESSMENT REPORT
NAVAL AIR STATION
KEY WEST, FLORIDA
PAGE 1 OF 3

LOCATION	PARAMETER	RESULT[a] (µg/L)	QUAL[b]	GCTL[c] (µg/L)
METALS				
G01-MW-07-0504-AVG	ARSENIC	3.8075[1]		50
VOLATILE ORGANIC COMPOUNDS				
G01-MW-05-0504	1,1-DICHLOROETHANE	0.4	J	70
G01-MW-07-0504-AVG	1,1-DICHLOROETHANE	0.8	J	
G01-MW-08-0504	1,1-DICHLOROETHANE	3		
G01-MW-09-0504	1,1-DICHLOROETHANE	0.5	J	
G01-MW-11-0504	1,1-DICHLOROETHANE	1		
G01-MW-07-0504-AVG	BENZENE	0.3[1]	J	1
G01-MW-08-0504	BENZENE	6		
G01-MW-09-0504	BENZENE	0.2	J	
G01-MW-11-0504	BENZENE	1		
G01-MW-07-0504-AVG	CARBON DISULFIDE	1.4		700
G01-MW-08-0504	CARBON DISULFIDE	0.2	J	
G01-MW-09-0504	CARBON DISULFIDE	0.2	J	
G01-MW-01A-0504	CIS-1,2-DICHLOROETHENE	0.1	J	70
G01-MW-07-0504-AVG	CIS-1,2-DICHLOROETHENE	1.4		
G01-MW-08-0504	CIS-1,2-DICHLOROETHENE	0.9	J	
G01-MW-09-0504	CIS-1,2-DICHLOROETHENE	0.8	J	
G01-MW-11-0504	CIS-1,2-DICHLOROETHENE	0.6	J	
G01-MW-02-0504	ETHYLBENZENE	0.2	J	30
G01-MW-05-0504	ETHYLBENZENE	0.2	J	
G01-MW-08-0504	ETHYLBENZENE	4		
G01-MW-09-0504	ETHYLBENZENE	0.3	J	
G01-MW-10-0504	ETHYLBENZENE	2		
G01-MW-11-0504	ETHYLBENZENE	6		
G01-MW-12-0504	ETHYLBENZENE	2		
G01-MW-07-0504-AVG	TOTAL 1,2-DICHLOROETHENE	1.55	J	70
G01-MW-08-0504	TOTAL 1,2-DICHLOROETHENE	0.9	J	
G01-MW-09-0504	TOTAL 1,2-DICHLOROETHENE	0.8	J	
G01-MW-07-0504-AVG	TRANS-1,2-DICHLOROETHENE	0.4[1]	J	100
G01-MW-07-0504-AVG	TRICHLOROETHENE	0.4[1]	J	3
POLYNUCLEAR AROMATIC HYDROCARBONS				
G01-MW-05-0504	1-METHYLNAPHTHALENE	3.8	J	20
G01-MW-07-0504-AVG	1-METHYLNAPHTHALENE	1.65		
G01-MW-08-0504	1-METHYLNAPHTHALENE	34		

TABLE 4-5

LABORATORY GROUNDWATER ANALYTICAL RESULTS, MAY 2004
GEIGER KEY HAWK MISSILE SITE G-01
SUPPLEMENTAL SITE ASSESSMENT REPORT
NAVAL AIR STATION
KEY WEST, FLORIDA
PAGE 2 OF 3

LOCATION	PARAMETER	RESULT[(a)] (µg/L)	QUAL[(b)]	GCTL[(c)] (µg/L)
G01-MW-09-0504	1-METHYLNAPHTHALENE	14		20
G01-MW-10-0504	1-METHYLNAPHTHALENE	9.6		
G01-MW-11-0504	1-METHYLNAPHTHALENE	40		
G01-MW-12-0504	1-METHYLNAPHTHALENE	16		
G01-MW-05-0504	2-METHYLNAPHTHALENE	0.2		20
G01-MW-07-0504-AVG	2-METHYLNAPHTHALENE	7.5(1)		
G01-MW-08-0504	2-METHYLNAPHTHALENE	47		
G01-MW-09-0504	2-METHYLNAPHTHALENE	36		
G01-MW-10-0504	2-METHYLNAPHTHALENE	0.77		
G01-MW-11-0504	2-METHYLNAPHTHALENE	43		
G01-MW-12-0504	2-METHYLNAPHTHALENE	6.9		
G01-MW-04-0504	ACENAPHTHENE	0.19	J	20
G01-MW-05-0504	ACENAPHTHENE	92		
G01-MW-07-0504-AVG	ACENAPHTHENE	0.165	J	
G01-MW-08-0504	ACENAPHTHENE	2	J	
G01-MW-09-0504	ACENAPHTHENE	1.3		
G01-MW-10-0504	ACENAPHTHENE	0.25		
G01-MW-11-0504	ACENAPHTHENE	2.6		
G01-MW-12-0504	ACENAPHTHENE	2.2		
G01-MW-05-0504	ANTHRACENE	3.6	J	2,100
G01-MW-10-0504	ANTHRACENE	0.11	J	
G01-MW-11-0504	ANTHRACENE	0.28		
G01-MW-12-0504	ANTHRACENE	0.16	J	
G01-MW-07-0504-AVG	BENZO(B)FLUORANTHENE	3.05(1)	J	0.2
G01-MW-05-0504	FLUORANTHENE	2.4		280
G01-MW-07-0504-AVG	FLUORENE	0.29		280
G01-MW-08-0504	FLUORENE	3	J	
G01-MW-09-0504	FLUORENE	3	J	
G01-MW-10-0504	FLUORENE	0.07	J	
G01-MW-11-0504	FLUORENE	2.8		
G01-MW-12-0504	FLUORENE	1.3		
G01-MW-05-0504	NAPHTHALENE	11		20
G01-MW-07-0504-AVG	NAPHTHALENE	10(1)		
G01-MW-08-0504	NAPHTHALENE	31		
G01-MW-09-0504	NAPHTHALENE	23		
G01-MW-10-0504	NAPHTHALENE	5.9		
G01-MW-11-0504	NAPHTHALENE	16		

TABLE 4-5

LABORATORY GROUNDWATER ANALYTICAL RESULTS, MAY 2004
GEIGER KEY HAWK MISSILE SITE G-01
SUPPLEMENTAL SITE ASSESSMENT REPORT
NAVAL AIR STATION
KEY WEST, FLORIDA
PAGE 3 OF 3

LOCATION	PARAMETER	RESULT[(a)] (µg/L)	QUAL[(b)]	GCTL[(c)] (µg/L)
G01-MW-12-0504	NAPHTHALENE	5		20
G01-MW-05-0504	PHENANTHRENE	2.5		210
G01-MW-07-0504-AVG	PHENANTHRENE	0.57		
G01-MW-08-0504	PHENANTHRENE	4	J	
G01-MW-09-0504	PHENANTHRENE	3	J	
G01-MW-10-0504	PHENANTHRENE	0.87		
G01-MW-11-0504	PHENANTHRENE	3.6	J	
G01-MW-12-0504	PHENANTHRENE	2		
G01-MW-05-0504	PYRENE	0.74		
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS				
G01-MW-02-0504	TOTAL PETROLEUM HYDROCARBONS	440	J	5,000
G01-MW-04-0504	TOTAL PETROLEUM HYDROCARBONS	810		
G01-MW-05-0504	TOTAL PETROLEUM HYDROCARBONS	1,000		
G01-MW-07-0504-AVG	TOTAL PETROLEUM HYDROCARBONS	490	J	
G01-MW-08-0504	TOTAL PETROLEUM HYDROCARBONS	1,300		
G01-MW-09-0504	TOTAL PETROLEUM HYDROCARBONS	2,700		
G01-MW-10-0504	TOTAL PETROLEUM HYDROCARBONS	1,900		
G01-MW-11-0504	TOTAL PETROLEUM HYDROCARBONS	2,000		
G01-MW-12-0504	TOTAL PETROLEUM HYDROCARBONS	2,700		

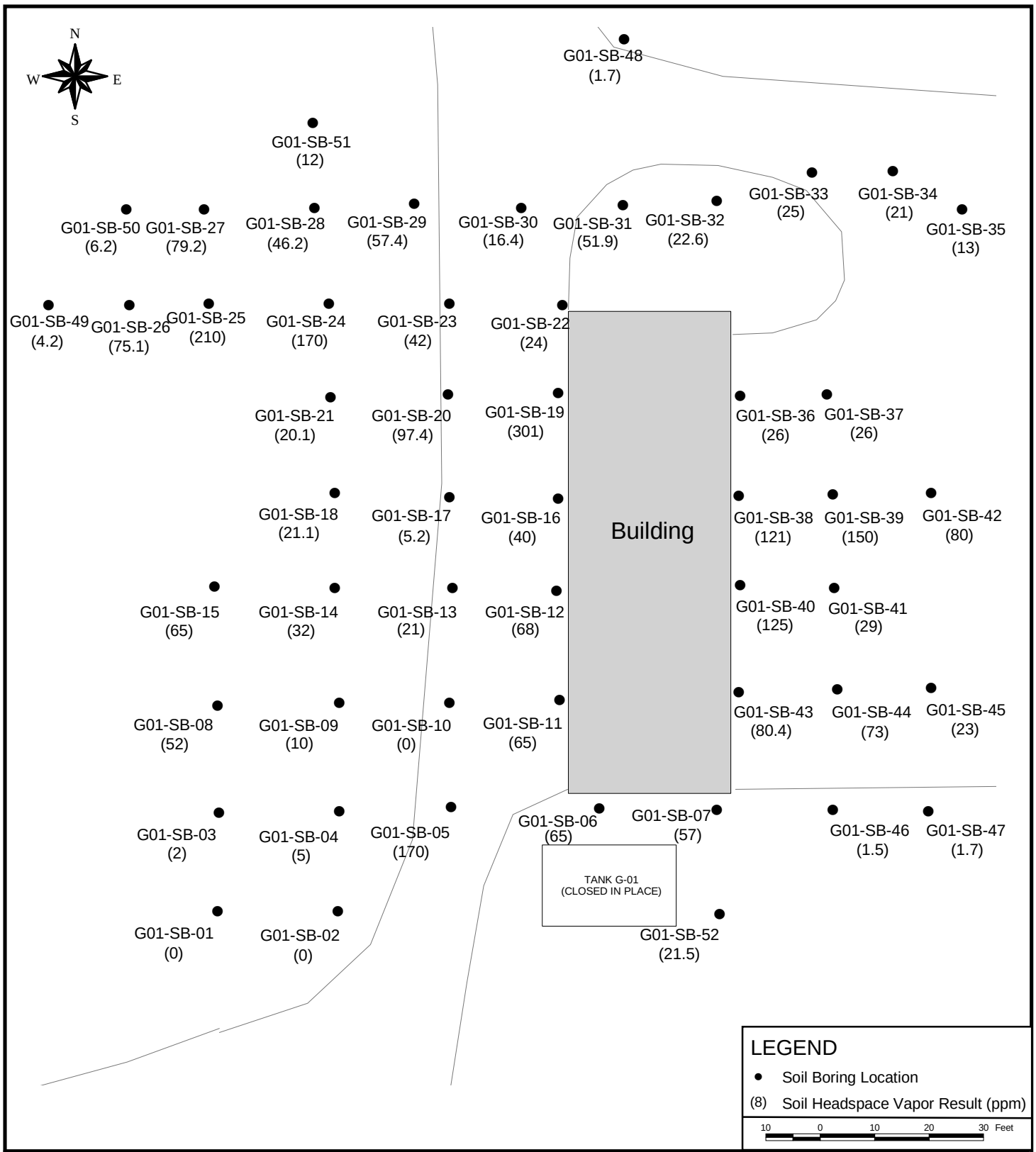
Shading indicates an exceedance of the GCTL.
The notation "AVG" indicates that duplicate samples were collected and the results were averaged.
(a) Result:
(1) The chemical was detected in one of two duplicate samples. For averaging purposes, one-half the detection limit was averaged with the detected result.
(b) Qualifier (Qual.) Codes:
J – The reported value is an estimated quantity.
(c) Groundwater Cleanup Target Level (GCTL) as defined in Chapter 62-777, FAC Table I.

TABLE 4-6

**NATURAL ATTENUATION PARAMETERS SUMMARY
GEIGER KEY HAWK MISSILE SITE G-01
SUPPLEMENTAL SITE ASSESSMENT REPORT
NAVAL AIR STATION
KEY WEST, FLORIDA**

Measurements		Parameters				
Monitoring Well	Date	Methane (µg/L)	Nitrate (mg/L)	Sulfate (mg/L)	DO (mg/L)	CO_2 (mg/L)
G01-MW-01	2/4/2004	200	0.004 J	2,000	NA	NA
	5/26/2004	400	ND	1,500	0.1	900
G01-MW-01A	2/4/2004	160	ND	2,300	NA	NA
	5/25/2004	190	0.011 J	1,900	0.3	45
G01-MW-02	2/4/2004	57	ND	2,200	NA	NA
	5/24/2004	380	0.034 J	1,200	1.0	115
G01-MW-03	2/4/2004	1,100	ND	1,200	NA	NA
	5/20/2004	690	0.22	3.4	0.5	140
G01-MW-04	2/4/2004	500	0.044 J	1,400	NA	NA
	5/24/2004	870	ND	1,300	0.6	90
G01-MW-05	2/5/2004	4,400	ND	460	NA	NA
	5/24/2004	3,700	0.019 J	460	0.25	180
G01-MW-06	2/5/2004	9,100	ND	130	NA	NA
	5/25/2004	NA	NA	NA	NA	NA
G01-MW-07	2/6/2004	940	ND	2,000	0.7	19
	5/25/2004	920*	0.0275 J*	1,750*	0.8	850
G01-MW-08	2/6/2004	2,600	0.0082 J	ND	0.8	110
	5/25/2004	6,100	0.25	170	0.1	160
G01-MW-09	2/6/2004	3,800	0.011 J	1,300	0.4	150
	5/25/2004	2,600	0.0079 J	540	0.15	225
G01-MW-10	2/6/2004	2,500	ND	500	0.3	130
	5/20/2004	2,600	0.005 J	24	0.2	160
G01-MW-11	2/6/2004	5,150*	ND	150*	0.6	155
	5/24/2004	7,800	ND	140	0.3	200
G01-MW-12	2/6/2004	4,700	0.015 J	150	0.8	122
	5/20/2004	5,600	0.0094 J	460	0.5	105

Notes:
The qualifier 'J' indicates that the result is estimated.
DO - Dissolved Oxygen
CO_2 – Carbon Dioxide
ND – Not detected
NA – Not analyzed
*Duplicates were collected and the results were averaged for the reported result.
mg/L milligrams per liter



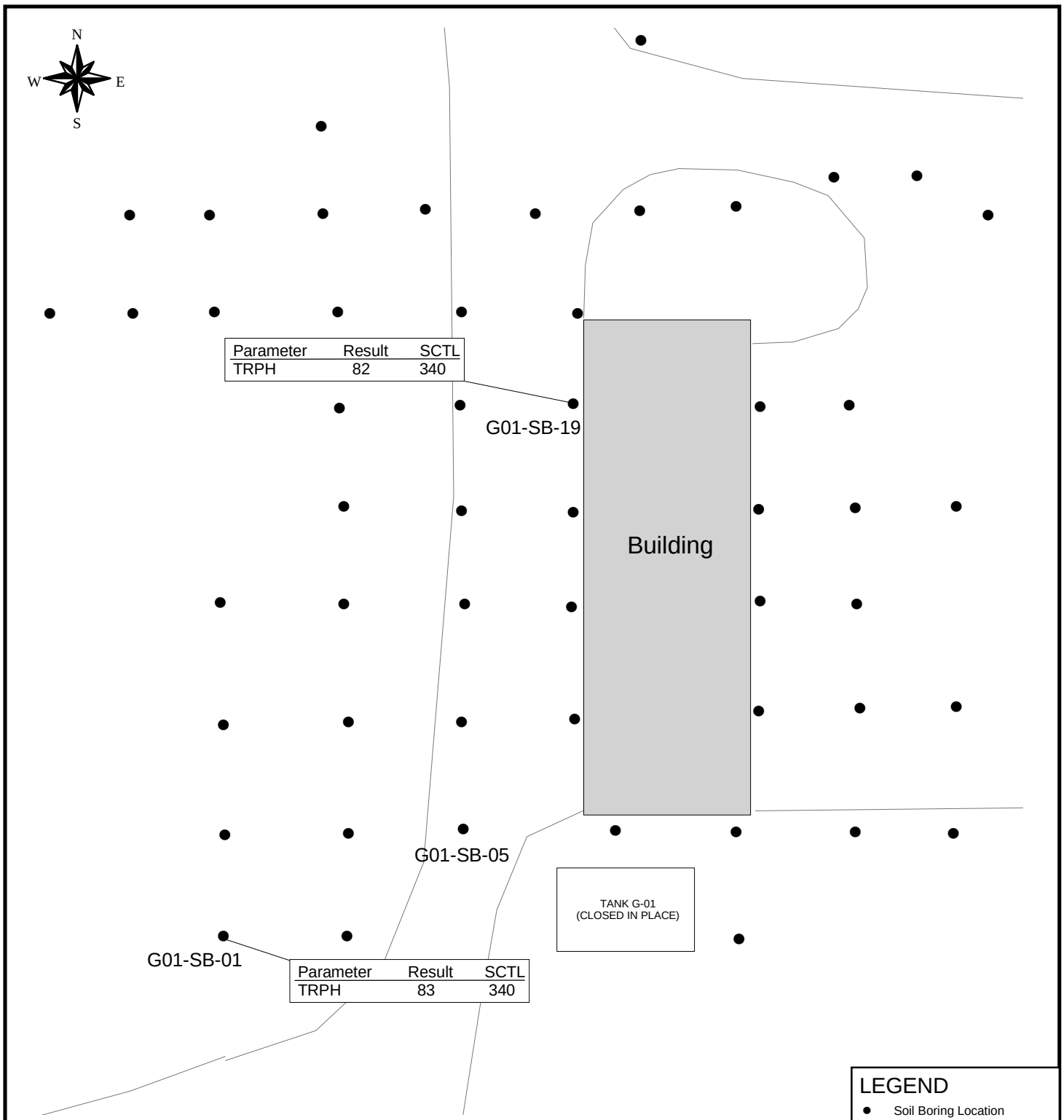
NO.	DATE	REVISIONS

DRAWN BY EHM	DATE 08/11/2004
CHECKED BY MD	DATE 08/12/2004
COST/SCHED-AREA	
SCALE	AS NOTED

SUPPLEMENTAL SITE ASSESSMENT REPORT
FOR
GEIGER KEY HAWK MISSILE SITE G-01
SOIL HEADSPACE VAPOR RESULTS
NAVAL AIR STATION
KEY WEST, FLORIDA

CONTRACT NO.	N4779
APPROVED BY CMB	DATE 08/13/2004
APPROVED BY	DATE
FIGURE NO.	4-1
REV.	0

K:\GEIGER KEY SUP SAR.APR LAYOUT: FIGURE 4-1 SSAR REV. 0 BY:EHM DATE: 08/17/2004



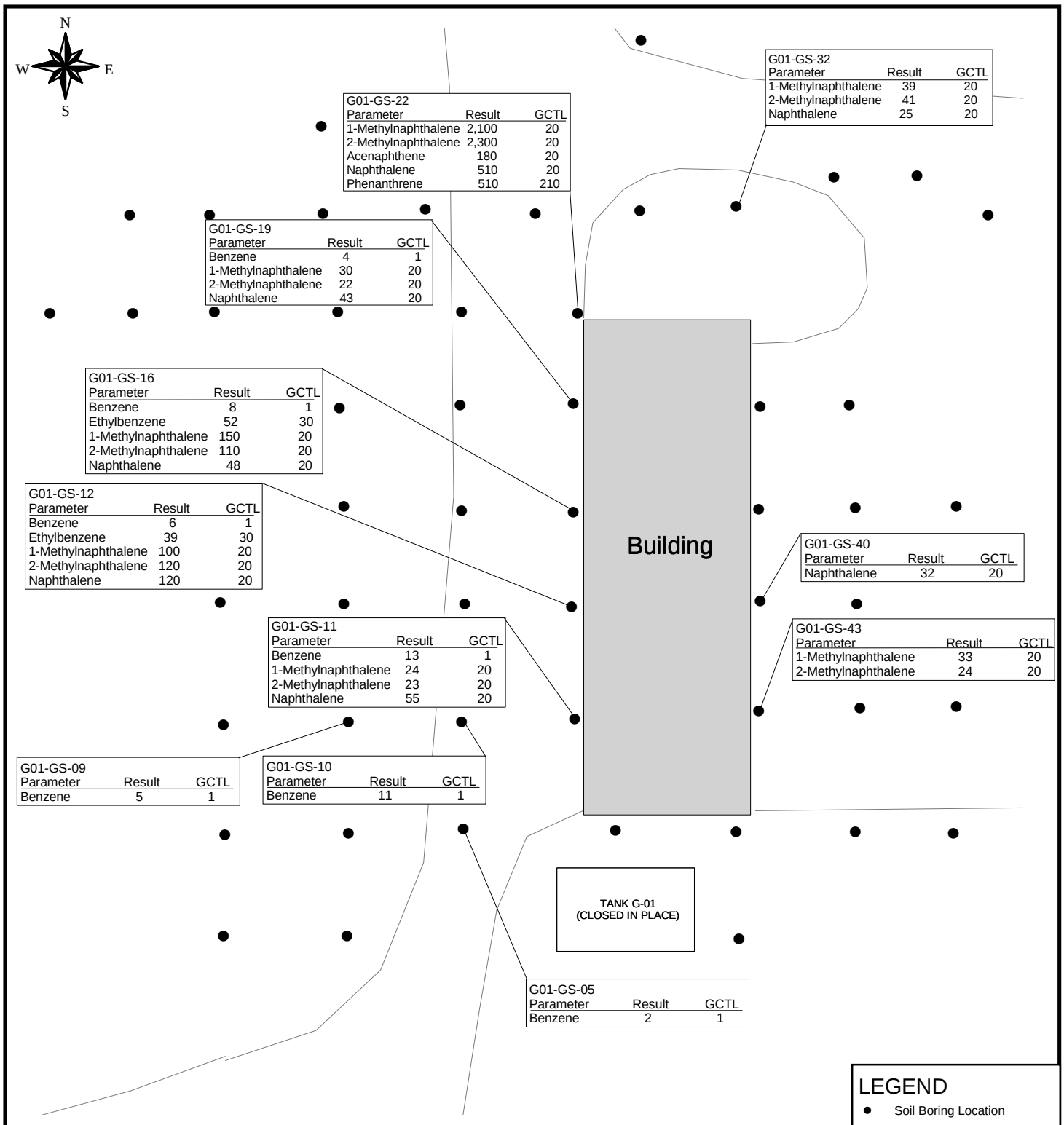
NO.	DATE	REVISIONS

DRAWN BY EHM DATE 08/11/2004
CHECKED BY MD DATE 08/12/2004
COST/SCHED-AREA
SCALE AS NOTED

SUPPLEMENTAL SITE ASSESSMENT REPORT
FOR
GEIGER KEY HAWK MISSILE SITE G-01
SOIL ANALYTICAL RESULTS
NAVAL AIR STATION
KEY WEST, FLORIDA

CONTRACT NO. N4779
APPROVED BY CMB DATE 08/13/2004
APPROVED BY ____ DATE ____
FIGURE NO. 4-2
REV. 0

K:\GEIGER KEY SUP SAR.APR LAYOUT: FIGURE 4-2 SSAR REV. 0 BY:EHM DATE: 08/17/2004



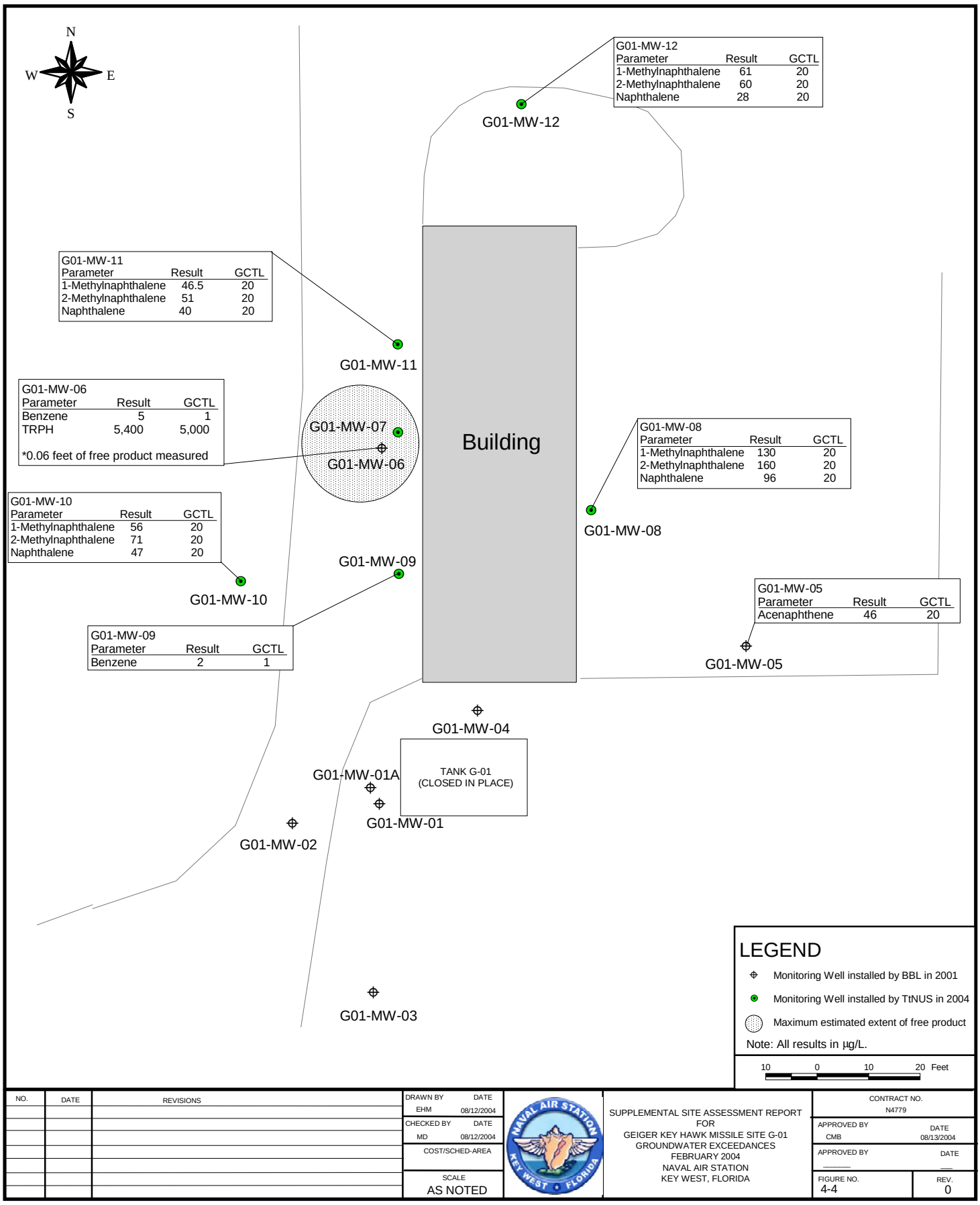
NO.	DATE	REVISIONS

DRAWN BY EHM	DATE 08/12/2004
CHECKED BY MD	DATE 08/12/2004
COST/SCHED-AREA	
SCALE	AS NOTED

SUPPLEMENTAL SITE ASSESSMENT REPORT
FOR
GEIGER KEY HAWK MISSILE SITE G-01
GROUNDWATER SCREENING EXCEEDANCES
NAVAL AIR STATION
KEY WEST, FLORIDA

CONTRACT NO.	N4779
APPROVED BY CMB	DATE 08/13/2004
APPROVED BY	DATE
FIGURE NO.	4-3
REV.	0

K:\GEIGER KEY SUP SAR.APR LAYOUT: FIGURE 4-3 SSAR REV. 0 BY:EHM DATE: 08/17/2004



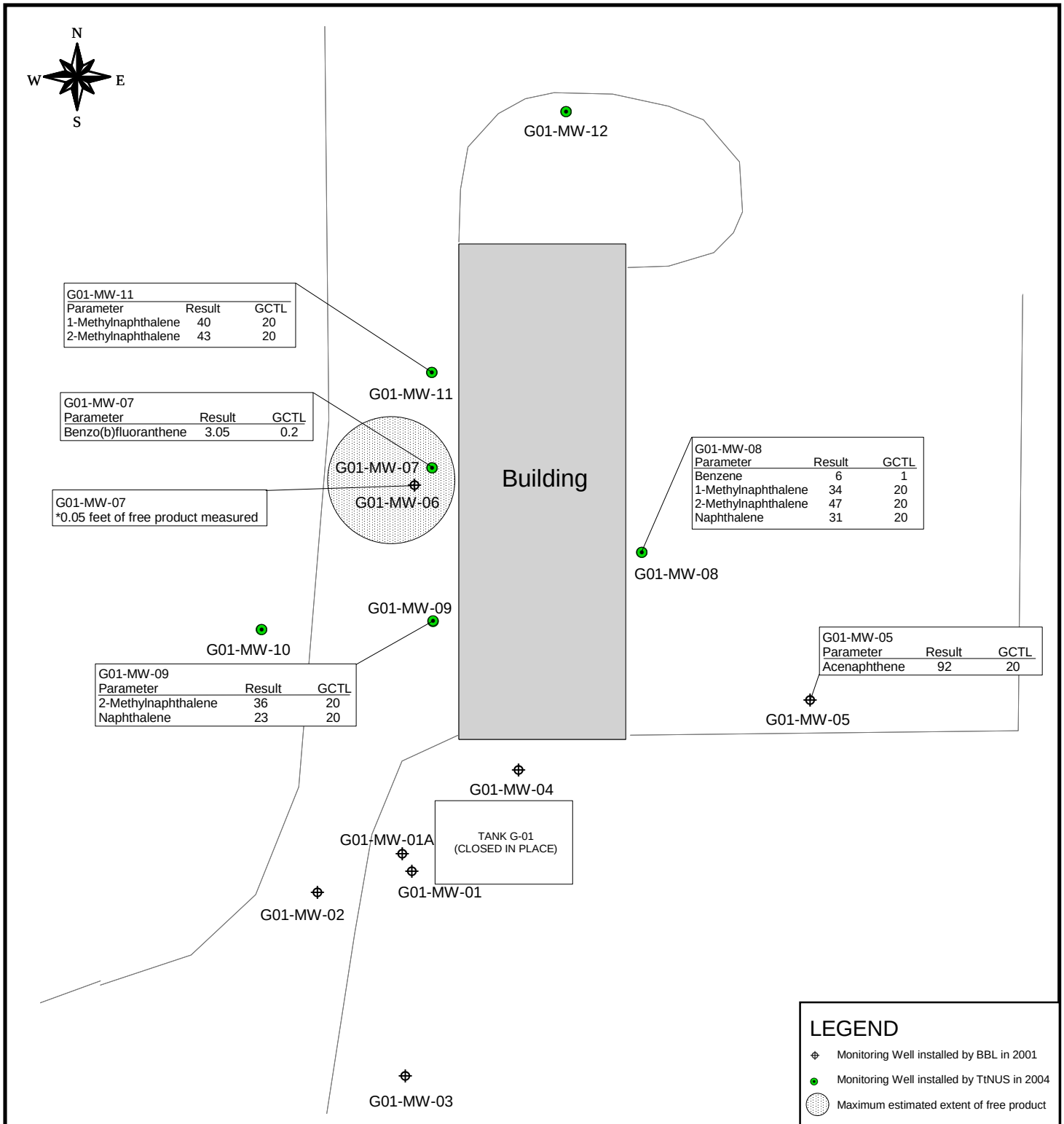
NO.	DATE	REVISIONS

DRAWN BY EHM DATE 08/12/2004
CHECKED BY MD DATE 08/12/2004
COST/SCHED-AREA
SCALE AS NOTED

SUPPLEMENTAL SITE ASSESSMENT REPORT
FOR
GEIGER KEY HAWK MISSILE SITE G-01
GROUNDWATER EXCEEDANCES
FEBRUARY 2004
NAVAL AIR STATION
KEY WEST, FLORIDA

CONTRACT NO. N4779
APPROVED BY CMB DATE 08/13/2004
APPROVED BY ——— DATE ———
FIGURE NO. 4-4
REV. 0

K:\GEIGER KEY SUP SAR.APR LAYOUT: FIGURE 4-4 SSAR REV. 0 BY:EHM DATE: 08/25/2004



NO.	DATE	REVISIONS

DRAWN BY EHM DATE 08/12/2004
CHECKED BY MD DATE 08/12/2004
COST/SCHED-AREA
SCALE AS NOTED

SUPPLEMENTAL SITE ASSESSMENT REPORT
FOR
GEIGER KEY HAWK MISSILE SITE G-01
GROUNDWATER EXCEEDANCES
MAY 2004
NAVAL AIR STATION
KEY WEST, FLORIDA

CONTRACT NO. N4779
APPROVED BY CMB DATE 08/13/2004
APPROVED BY ____ DATE ____
FIGURE NO. 4-5
REV. 0

K:\GEIGER KEY SUP SAR.APR LAYOUT: FIGURE 4-5 SSAR REV. 0 BY:EHM DATE: 08/25/2004

5.0 SITE INVESTIGATION SUMMARY

5.1 SOURCE OF HYDROCARBONS

A 2,000-gallon AST used to store diesel fuel for emergency generators is the source of hydrocarbons. The Closure Report indicated that the groundwater in the vicinity of the 2,000-gallon AST showed signs of petroleum hydrocarbon contamination and recommended that a contamination assessment be performed (BBL, 2002).

5.2 SITE CONDITIONS

The site is underlain by oolitic limestone to approximately 25 feet bls. Confining layers were not observed at the site. Groundwater elevations in the surficial aquifer ranged from 0.58 to 2.17 feet during February 2004 and 0.38 to 2.12 feet during May 2004. Groundwater elevations were calculated from the SWL and TOC elevation survey data. These data points were used to calculate the groundwater flow direction and hydraulic gradient at the time of each gauging event. Groundwater flow at the site during the February 2004 event was to the east and flow was radial during the May 2004 event. The average hydraulic gradient calculated for the site was 0.00255 feet per foot. The average hydraulic conductivity for the site was determined to be 0.40 feet per day from data obtained by slug tests conducted during the site assessment (BBL, 2002). The groundwater flow velocity was calculated from the average hydraulic gradient and hydraulic conductivity values, and is estimated at 0.0034 feet per day. A tidal study at the site revealed the presence of a fluctuation in water levels of 0.30 and 0.15 feet during a 24-hour period. No known active potable water supply or irrigation wells occur on Geiger Key.

5.3 SOURCE REMOVAL

Two ASTs used to store diesel fuel for emergency generators were located at the Geiger Key Hawk Missile Site G-01. The tanks also reportedly stored jet propellant (JP-5) fuel on occasion. The 2,000-gallon and 300-gallon tanks at Geiger Key Hawk Missile Site G-01 were closed in place on April 27, 1996. The Navy submitted a Closure Assessment Form to FDEP on June 17, 1996 (BBL, 2002).

5.4 SOIL ASSESSMENT

Headspace vapor analysis of vadose zone soil samples collected during the investigation indicated “excessively contaminated soil” for KAG constituents, as defined in Chapter 62-770.200(12), FAC. TRPH was detected in two of the three soil samples collected for fixed-base laboratory analysis; however, concentrations were below the residential SCTL. Concentrations of all other CoCs were below standard laboratory detection limits.

5.5 GROUNDWATER ASSESSMENT

Benzene, acenaphthene, 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene exceeded GCTLs in both monitoring events. TRPH also exceeded its GCTL in one monitoring well during the February 2004 event. In May 2004, benzo(b)fluoranthene exceeded its GCTL in the deeper monitoring well (25 feet bls), following no detections of KAG constituents in February 2004. Free product was detected in monitoring well G01-MW-06 in February (0.06 feet) and May 2004 (0.05 feet).

6.0 CONCLUSIONS AND RECOMMENDATION

The conclusions, based on the data collected during the supplemental site assessment performed by TtNUS at Geiger Key Hawk Missile Site G-01, are summarized as follows:

- The site is underlain by a surficial aquifer comprised of oolitic limestone. No confining layers were encountered within the upper 25 feet of the surficial aquifer.
- Headspace vapor analysis was conducted on soils from the 0-to-2-foot vadose zone. Multiple vadose zone samples produced OVA readings indicating the presence of "excessively contaminated soil."
- The surficial aquifer is non-potable and tidally influenced in the site vicinity.
- The direction of groundwater flow was east during one measurement and radial during another, suggesting a strong tidal influence. The surficial aquifer flows at a calculated velocity of 0.0036 feet/day.
- Free product was observed at the site in one monitoring well during both monitoring events.
- The vertical and horizontal extent of contamination was not fully defined.
- Petroleum contaminants were detected in soil samples collected, but were below residential SCTLs.
- Concentrations of KAG constituents detected in site monitoring wells exceeded GCTLs in two consecutive monitoring events

Based on the hydrogeological and chemical data presented in this SSAR, and supported by the criteria cited in Chapter 62-770, FAC, the preparation of a RAP is recommended for the site. Free product was detected in one monitoring well at the site (G01-MW-06) during both monitoring events. The amount was greater than 0.01 feet, eliminating monitored natural attenuation (MNA) as an appropriate remedy for the site. Active remediation will be required, most likely preceded by additional delineation to fully define the horizontal and vertical extent of contamination.

Petroleum CoCs did not exceed residential SCTLs in soil collected from the vadose zone at the site. However, multiple exceedances of GCTLs were observed in groundwater at the site. Monitoring wells installed during the site assessment to the south of the building surrounding the 2,000 gallon AST did not exhibit any exceedances of GCTLs. Newly installed as well as existing monitoring wells to the west, east, and north of the building (G01-MW-05 through G01-MW-12) exhibited exceedances of GCTLs, indicating that contamination has migrated north of the AST location.

REFERENCES

ABB (ABB Environmental Services, Inc.), 1995. Facility and Remedial Investigation NAS Key West, Workplan, Volume 1 and Sampling and Analysis Plan, Volume 2, prepared for Department of the Navy, Southern Division, Naval Facilities Engineering Command (NAVFAC EFD SOUTH), Tampa, Florida. December.

BBL (Blasland, Bouck, and Lee, Inc.), 2002. Site Assessment Reports for Former Hawk Missile Sites, Site G-01 Geiger Key, Site B-01 Boca Chica Key, prepared for Naval Air Station Key West Public Works Department. Tampa, Florida. February.

Bouwer, H and Rice, R.C., 1976. A slug test for determining hydraulic conductivity of unconfined aquifer with completely or partially penetrating wells: Water Resource Research, V 12, No. 3, pp 423-428.

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B&RE (Brown & Root Environmental), 1997. Supplemental RCRA Facility Investigation/Remedial Investigation Report for High-Priority Sites, Naval Air Station Key West, Florida, prepared for Department of the Navy, Southern Division, Naval Facilities Engineering Command, Aiken, South Carolina. July.

Davis, S.N., and DeWeist, R.J.M., 1966. Hydrogeology: New York, John Wiley and Sons, Inc., p 463.

FDEP (Florida Department of Environmental Protection), 2002. Standard Operating Procedures for Field Activities, DEP-SOP-001/01, Tallahassee, Florida. January.

Rust (Rust Environment and Infrastructure), 1997. Tank Management Plan, Naval Air Station, Key West, Florida. Prepared for Department of the Navy, Southern Division, Naval Facilities Engineering Command. North Charleston, South Carolina. June.

TtNUS, 2003. Abbreviated Contamination Assessment Plan for Site A-824 and Geiger Key Hawk Missile Site G-01; Monitored Natural Attenuation Sampling Plan for Boca Chica Hawk Missile Site B-01, Naval Air Station Key West, prepared for Southern Division, Naval Facilities Engineering Command, Aiken, South Carolina. November.

APPENDIX A

FDEP APPROVAL LETTER

Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

RECEIVED 5.12.03

May 2, 2002

Mr. Byas Glover
Code 18410
Southern Division
Naval Facilities Engineering Command
Post Office Box 190010
North Charleston, South Carolina 29419-9010

RE: Site Assessment Report, Former Hawk Missile Sites, Site G-01-Geiger Key, (NAS) Key West, Key West, Florida

Dear Mr. Glover:

I have completed the technical review of the above referenced document dated February 2002 (received February 27, 2002). The following comments will need to be addressed prior to approval of the SAR:

1. **Page 4-2, Section 4.2:** FDEP concurs with the recommendation to install new monitoring wells as described in the SAR.

2. **Table 2-2:** FDEP would also like additional soil samples collected to be analyzed with OVA and laboratory analysis to further delineate the elevated OVA readings at SB-11 and SB-12 and the TRPH contamination found in SB-5 of 9,200,000 mg/kg.

Please note, the Site Assessment Report (SAR) for Site B-01 Boca Chica Key included in this report, will be addressed separately. If I can be of any further assistance with this matter, please contact me at (850) 921-9988.

Sincerely,

Tracie Vaught

Tracie L. Vaught
Remedial Project Manager

cc: Robert Courtright, NAS Key West
Chuck Bryan, Tetra Tech NUS, Aiken, South Carolina

TJB TB JJC JJC for ESN JJC

APPENDIX B

FIELD LOG SHEETS

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB-01
DATE: 11/13/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Precision - Mike Millican Bill Ave

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1							organic debris						
			3				limestone, light brown			10			
							to brown, oolitic, moderately						
			5				consolidated			6			
5							limestone, gray-						
							white, consolidated,						
							moist.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 6.0

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 02
DATE: 11/13/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike + Bill

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							crushed limestone +						
2							sand, light brown, mod consolidated			0			
							limestone, oolitic						
							med to well consolidated			0			
5							light grey-white						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0.0

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB-03
DATE: 11/ /2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican, Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris - roots, soil						
	2						Limestone, light brown			2			
							crushed fill, not consolidated						
	4						Limestone, oolitic,			4			
5							grey white, well consolidated						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0.0

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB-05
DATE: 11/13/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican, Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							asphalt + organic debris						
2							limestone + coarse sand			170			
							oolitic limestone, gray						
4							white, well consolidated			20			
							no recovery						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks:

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 06
DATE: 11/13/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican, Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							asphalt + organic debris						
2							limestone + coarse sand			65			
							oolitic limestone, grey						
4							silt, well consolidated			150			
							porous						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: _____

Drilling Area Background (ppm): 0.0

Converted to Well: Yes _____ No X Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB-07
DATE: 11/6/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic ldm, asphalt						
2							limestone + coarse sand			57			
							white, limestone gravel						
4							white, med consolidated			210			
							rock						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: _____

Converted to Well: Yes _____ No ✓ Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB-03
DATE: 11/13/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Andet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
1							organic debris, asphalt						
							limestone + coarse sand			520			
2							oolitic limestone, grey						
4							white, mod consolidated			630			
5							porous						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0.0

Remarks:

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB-[illegible]
DATE: 11/13/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican, Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							asphalt, organic debris						
2							limestone, coarse sand,			90			
							oolitic limestone,						
4							gray-white, porous,			120			
							mod-consolidated -						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: _____

Drilling Area Background (ppm): 0

Converted to Well: Yes _____ No ✓ Well I.D. #: ✓

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB-10
DATE: 11/13/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							asphalt + organic debris						
2							limestone + organic						
							oolitic limestone,			0			
4							grey-white, well consolidated						
							porous.			360			

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 11
DATE: 11/13/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican, Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris						
2							brightest coarse sand			450			
							white limestone			[illegible]			
4							↓			128			

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: _____

Drilling Area Background (ppm): 0

Converted to Well: Yes _____ No ✓ Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB-12
DATE: 11/14/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Ardet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris + asphalt						
2							limestone + coarse sand			68			
							white limestone,						
4							grey-white, porous			318			
							↓						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0.0

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 13
DATE: 11/14/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							asphalt + aggregate fill						
2							limestone + coarse sand			2000			
							white, limestone,						
4							gray-white,			1700			

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0.0

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 14
DATE: 11/15/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Hudet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							asphalt + organic silty						
	2						limestone + sand.			32			
							oolitic limestone,						
	4						gray-white, porous.			38			
							↓						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks:

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 15
DATE: 11/4/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Andet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris + limeste						
2							crushed limestone + sand			65			
							oolitic limestone						
4										36.2			

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: _____

Drilling Area Background (ppm): 0.0

Converted to Well: Yes _____ No X Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 16
DATE: 11/14/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike + Bill

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris,						
	2						concrete			40			
							white limestone						
	4						↓			345			

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB-17
DATE: 11/4/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							asphalt, organic debris						
2							limestone & sand			5.2			
							oolitic limestone						
4							↓			685			

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: ______

Drilling Area Background (ppm): 0

Converted to Well: Yes ______ No ✓ Well I.D. #: ______

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 18
DATE: 11/14/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican, Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic silty, asphalt						
2							coarse sand + crushed			21.1			
							limestone						
4							oolitic limestone			7.8			
							↓						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: _____

Drilling Area Background (ppm): 0

Converted to Well: Yes _____ No ✓ Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 19
DATE: 11/ /2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris						
	2						limestone + coarse sand			30			
							oolitic limestone						
	4						↓			56			

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: _____

Drilling Area Background (ppm): 0.0

Converted to Well: Yes _____ No X Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 20
DATE: 11/14/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike + Bill

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris						
	2						crushed limestone, sand + shell			717.4			
							oolitic limestone, well						
	4						consolidated, shell fragments			58.1			
							porous						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: _____

Drilling Area Background (ppm): 0

Converted to Well: Yes _____ No X Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 21
DATE: 11/14/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	PID/FID Reading (ppm): Sampler BZ	PID/FID Reading (ppm): Borehole**	PID/FID Reading (ppm): Driller BZ**
							organic debris, asphalt.						
2							sand + crushed limestone			20			
							oolitic limestone						
4							grey-white, well consolidated.			7.2			

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0.0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 22
DATE: 11/14/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							Asphalt, organic debris						
2							crushed limestone, buff.			24	0	N/A	0
							oolitic limestone, grey						
4							silt, well consolidated			523	0	N/A	0
							porous.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks:

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 03
DATE: 11/15/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Audd

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris						
2							crushed limestone, sand & shell.			42			
							oolitic limestone, gray						
3							white, well cemented			120			
							grass						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm):

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB-23
DATE: 11/17/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	PID/FID Reading (ppm): Sampler BZ	PID/FID Reading (ppm): Borehole**	PID/FID Reading (ppm): Driller BZ**
							asphalt, organic debris						
2							limestone & coarse sand			190			
							concrete						
4							white limestone,			480			
							gray						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 6

Remarks:

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 25
DATE: 11/5/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris - asphalt						
2							crushed limestone, sand + shell.			210			
							oolitic limestone, gray-wht						
4							well consolidated,			340			
							foram.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB-26
DATE: 11/15/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris, asphalt						
2							limestone + coarse sand			75.1			
							white limestone						
4							gray-white, well consolidated			36	a		
							porous.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks:

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB-27
DATE: 11/6/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris, metal						
2							crushed limestone, sand or pebbles			79.2			
							oolitic limestone						
4							grey-white, well consolidated			73.2			
							porous.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0.0

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 28
DATE: 11/15/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Andel

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris						
2							limestone + coarse sand			46.2			
							oolitic limestone			~~48~~			
4							gray-white, well			61.8			
							consolidated						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: _____

Converted to Well: Yes _____ No X Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 29
DATE: 11/5/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris - pot, leaves						
2							limestone + coarse sand			57.4			
							white limestone, gray						
4							white, well cemented			14.0			
							porous						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: _____

Drilling Area Background (ppm): 0

Converted to Well: Yes _____ No X Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 30
DATE: 11/15/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Andet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris.						
2							limestone + coarse sand			164			
							white limestone,						
4							grey silt, some			148			
							shell fragments, poor						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks: _____

Converted to Well: Yes _____ No X Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 31
DATE: 11/15/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris.						
2							limestone coarse sand			51.9			
							oolitic limestone,						
4							gray-white, well			17.4			
							consolidated, porous						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB-32
DATE: 11/15/2003
GEOLOGIST: GARY BRAGANZA
DRILLER:

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	PID/FID Reading (ppm): Sampler BZ	PID/FID Reading (ppm): Borehole**	PID/FID Reading (ppm): Driller BZ**
							organic debris + asphalt.						
2							crushed limestone + coarse sand.			22	6		
							white limestone, gray						
4							white - well consolidated			20	6		
							rock.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: BW14

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 33
DATE: 11/ 14/2003
GEOLOGIST: GARY BRAGANZA
DRILLER:

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							asphalt + organic debris						
2	2						crushed limestone + sand			25			
							white limestone						
4							well consolidated, gray -			20			
							white, porous						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0.0

Remarks:

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 34
DATE: 11/16/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Willican Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							asphalt + aggregate						
	2						crushed limestone + sand			21			
							white limestone						
	4						well consolidated			32.6			
							porous						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks:

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB-35
DATE: 11/16/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Andet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris + asphalt						
	2						crushed limestone + sand			13			
							oolitic limestone						
	4						gray-white, well consolidated			29			

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 36
DATE: 11/16/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Nate Mullican Bill Arndt

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							asphalt + organic debris						
	2						crushed limestone, sand + shell			26			
							oolitic limestone, gray-white, well consolidated						
	4									35			
							pores.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: _____

Drilling Area Background (ppm): 0

Converted to Well: Yes _____ No ✓ Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB-~~38~~ 39
DATE: 11/~~10~~/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike & Bill

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris						
2							crushed limestone gravel			26			
							white limestone;						
4							gray-white, well			28			
							consolidated, porous.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0.0

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 38
DATE: 11/16/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike + Bill

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	PID/FID Reading (ppm): Sampler BZ	PID/FID Reading (ppm): Borehole**	PID/FID Reading (ppm): Driller BZ**
							organic debris						
	2						limestone sand.			121			
							white limestone, gray						
	4						white, consolidated.			287			
							some shell frag. fossils.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No X Well I.D. #: N/A

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 39
DATE: 11/16/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	PID/FID Reading (ppm): Sampler BZ	PID/FID Reading (ppm): Borehole**	PID/FID Reading (ppm): Driller BZ**
							organic debris + asphalt						
	2						crushed limestone, sand + shell			150			
							oolitic limestone, grey						
	4						-white, well consolidated			83			
							porous.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: ______

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No ✓ Well I.D. #: N/A

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 40
DATE: 11/16/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris, pebbles						
2							crushed limestone, sand	SM		125			
							oolitic limestone, grey						
4							white, well cemented			167			
							some shell, pores.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks:

Converted to Well: Yes ____ No ✓ Well I.D. #: N/A

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 41
DATE: 11/16/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike + Bill

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris.						
2							concrete + asphalt, crushed limestone.			29			
							oolitic limestone, gray						
4							high clay content			15.8			
							well consolidated						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: _____

Drilling Area Background (ppm): 0

Converted to Well: Yes _____ No ✓ Well I.D. #: N/A

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 42
DATE: 11/6/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike + Bill

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							asphalt, organic debris						
2							crushed limestone shell			80			
							calcitic limestone,						
4							grey-green, well consolidated			120			
							porous.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks:

Converted to Well: Yes ____ No ✓ Well I.D. #: N/A

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 43
DATE: 11/17/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike + Bill

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris						
	2						crushed limestone, subgrade			80.4			
							white limestone,						
	4						gray shale, well			212			
							consolidated.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: _____

Drilling Area Background (ppm): 0

Converted to Well: Yes _____ No X Well I.D. #: N/A

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 44
DATE: 11/17/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike + Bill

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris, asphalt						
	2						crushed limestone, sand + shell			73			
							oolitic limestone, grey						
	4						shale, well consolidated			89			
							some shell fragments.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 6

Remarks:

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 45
DATE: 11/7/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike + Bill

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris.						
	2						shelled limestone, sand + gravel.			23			
							white limestone, gray-						
	4						white, porous, well			50.2			
							consolidated.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks:

Converted to Well: Yes ____ No ✓ Well I.D. #: N/A

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 46
DATE: 11/17/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike + Bill

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris						
	2						crushed limestone, gravel, shell			11.6			
							white limestone,						
	4						gray-white, well			68			
							consolidated, grains						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks:

Converted to Well: Yes ____ No X Well I.D. #: N/A

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 47
DATE: 11/6/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike + Bill

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	PID/FID Reading (ppm): Sampler BZ	PID/FID Reading (ppm): Borehole**	PID/FID Reading (ppm): Driller BZ**
							organic debris						
	2						crushed limestone, sand + gravel			1.5			
							oolitic limestone, gray						
	4						white, well consolidated			5.4			
							porous						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0

Converted to Well: Yes ____ No X Well I.D. #: N/A

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 48
DATE: 11/17/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike + Bill

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris						
2	2						crushed limestone and			1.7			
							oolitic limestone, grey -						
	4						white, secondary organics			3.8			
							porous.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks:

Converted to Well: Yes ____ No ✓ Well I.D. #: N/A

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 49
DATE: 11/17/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike + Bill

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	PID/FID Reading (ppm): Sampler BZ	PID/FID Reading (ppm): Borehole**	PID/FID Reading (ppm): Driller BZ**
	2									4.2			
	4									8.1			

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0.0

Remarks: _____

Converted to Well: Yes _____ No X Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 50
DATE: 11/ /2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris						
	2						crushed limestone			0.2			
							oolitic limestone						
	4						grey-white, sandy			0.1			

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm): 0

Remarks:

Converted to Well: Yes ____ No ✓ Well I.D. #: N/A

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- 51
DATE: 11/17/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Millican Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris						
	2						crushed limestone			12			
							white limestone						
	4						grey limestone			21			

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: _____

Drilling Area Background (ppm): 0

Converted to Well: Yes _____ No X Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: NAS KW GEIGER KEY HAWK
PROJECT NUMBER: CTO 318 - N4779
DRILLING COMPANY: PRECISION DRILLING
DRILLING RIG: GEOPROBE

BORING No.: G01-SB- ~~34~~ 52
DATE: 11/17/2003
GEOLOGIST: GARY BRAGANZA
DRILLER: Mike Williams Bill Audet

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
							organic debris						
2							crushed limestone			~~247~~ 21	5		
							white limestone						
4							gray - shale			346			

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0.0

Converted to Well: Yes _____ No X Well I.D. #: _____

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - GEIGER KEY HAWK
Project No.: CTO 0318 - N4779

Sample ID No.: G01-SB-01-1103L
Sample Location: G01-SB-01
Sampled By: EM
C.O.C. No.: 3876

[X] Surface Soil
[ ] Subsurface Soil
[ ] Sediment
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date: 11/3/03	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0950	0-2'	light brown to brown	Limestone, light brown to brown, oolite, moderately consolidated organic debris
Method: sleeve			
Monitor Reading (ppm): 0.0			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

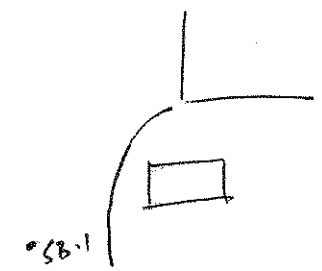
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
BTEX, MTBE	4 x 40 mL, 3 with DI, 1 with methanol	✓	
PAHs	4oz	✓	
TRPH	4oz	✓	

OBSERVATIONS / NOTES:

12361 - Methanol
12381 - D1
12382
12380

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

E McKee

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - GEIGER KEY HAWK
Project No.: CTO 0318 - N4779

Sample ID No.: G01-SB-05-1103M
Sample Location: G01-SB-05
Sampled By: E Miller C. Brazauskas
C.O.C. No.: 3876

[X] Surface Soil
[ ] Subsurface Soil
[ ] Sediment
[ ] Other:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

GRAB SAMPLE DATA:

Date: 11/13/03	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1150	0-2	light brown	limestone + sand, slight fragments moderately consolidated, dry
Method: grab			
Monitor Reading (ppm): 170			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

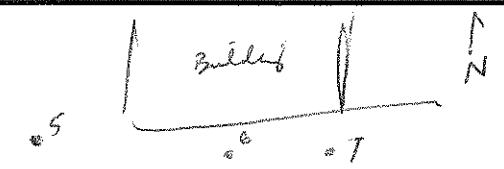
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
BTEX, MTBE	4 x 40 mL, 3 with DI, 1 with methanol	✓	
PAHs		✓	
TRPH		✓	

OBSERVATIONS / NOTES:

Meth - 12359
DI - 12373
12371
12372

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

E Miller

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - GEIGER KEY HAWK
Project No.: CTO 0318 - N4779

[X] Surface Soil
[ ] Subsurface Soil
[ ] Sediment
[ ] Other:
[ ] QA Sample Type:

Sample ID No.: G01-SB-19-1103H
Sample Location: G01-SB-19
Sampled By: Emily McRee / Gary Bragaw
C.O.C. No.: 3880

Type of Sample:
[ ] Low Concentration
[X] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 11/17/03 Time: 1345 Method: Grab Monitor Reading (ppm): 301	0-2	gray-white	organic debris, crushed limestone oolitic limestone + course sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

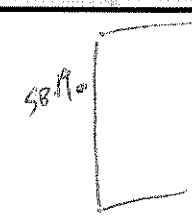
Analysis	Container Requirements	Collected	Other
BTEX, MTBE	4 x 40 mL, 3 with DI, 1 with methanol	✓	
PAHs	4oz	✓	
TRPH	4oz	✓	

OBSERVATIONS / NOTES:

G01-SB-19-1103H
Meth - 12358
DI - 12394
12393
12392

KW-DUP-05-1103
Meth - 12356
DI - 12388
12386
12387

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:
	KW-DUP-05-1103

Signature(s): Emily McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-01 -1103
Sample Location: G01-GS-01
Sampled By: FM
C.O.C. No.: 3876
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 11/13/03	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Time: 0850								
Method: Pump from open borehole	clear							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

- dumped preservative due to reaction
- allowed pump to run for 20 minutes before taking sample
- Monitor reading 0.0 ppm

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Eric McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS- 02 -1103
Sample Location: G01-GS- 02
Sampled By: EM
C.O.C. No.: 3876
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/13/03	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 0920								
Method: pump from DPT borehole								

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

- rinsed preservative due to reaction

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

EM McKe

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-03 -1103
Sample Location: G01-GS- 03
Sampled By: E Mckee
C.O.C. No.: 3876
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/3/03	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1000	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: pump from borehole	clear							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

- no preservative

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

E Mckee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-04 -1103
Sample Location: G01-GS-04
Sampled By: E McKee
C.O.C. No.: 3876
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 11/13/03								
Time: 1035								
Method: pump from borehole	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl NONE	3x40mL	✓

OBSERVATIONS / NOTES:

0.0 ppm reading
- rinsed preservative due to reaction

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

E McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-05 -1103
Sample Location: G01-GS-05
Sampled By: E. McRee
C.O.C. No.: 3876
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/13/03 / Time: 1100 / Method: grab from borehole	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl NONE	3x40mL	✓

OBSERVATIONS / NOTES:

Bubbles - caused preservative due to reaction

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

E. McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-06 -1103
Sample Location: G01-GS-06
Sampled By: E McRae
C.O.C. No.: 3876
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/13/03	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1135								
Method: pump from borehole								

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

- mixed preservative due to reaction

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): E McRae

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-07 -1103
Sample Location: G01-GS- 07
Sampled By: E McRee
C.O.C. No.: 3876
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 11/13/03	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Time: 1205								
Method: pump from borehole	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

- rinsed HCl from vials due to reaction

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

E McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-09 -1103
Sample Location: G01-GS-09
Sampled By: E. McKee
C.O.C. No.: 3876
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 11/13/03	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Time: 1410								
Method: pump from borehole	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

Rinsed HCl due to reaction

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

E. McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-07 -1103
Sample Location: G01-GS-07
Sampled By: E. McRae
C.O.C. No.: 3976
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/13/03 / Time: 1435 / Method: pump from borehole	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
	Cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

~~used HCl from bottles~~

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

E. McRae

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS- 10 -1103
Sample Location: G01-GS- 10
Sampled By: E. McKee
C.O.C. No.: 3876
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 11/13/03								
Time: 1530								
Method: Pump from borehole	Cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date:								
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

- Rinsed preservative due to reaction

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

E. McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS- 11 -1103
Sample Location: G01-GS- 11
Sampled By: E McKee
C.O.C. No.: 3877
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/19/03	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 0900								
Method: Pump from borehole								

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	✓
PAHs	—	2x1L amber	✓

OBSERVATIONS / NOTES:

- noted precipitate due to reaction

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

E McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS- 12 -1103
Sample Location: G01-GS- 12
Sampled By: E. McRee
C.O.C. No.: 3877
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 11/14/03								
Time: 0810								
Method: pump from borehole	clear							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ ~~Rinsed~~ None	3x40mL	✓
PAHs	None	2+1 Lambert	✓

OBSERVATIONS / NOTES:

- rinsed preservative due to reaction

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): E. McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-13 -1103
Sample Location: G01-GS-13
Sampled By: E McRee
C.O.C. No.: 3877
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 11/14/03								
Time: 0845								
Method: pump from borehole	clear							

PURGE DATA: No purge data was collected for groundwater screening samples.

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date:								
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

Rinsed preservative due to reaction

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

E McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-14-1103
Sample Location: G01-GS-14
Sampled By: E. McKee
C.O.C. No.: 3577
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/14/03	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1430								
Method: pump from backside	Cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

rinsed preservative due to reaction

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

E. McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS- 15 -1103
Sample Location: G01-GS- 15
Sampled By: E. McKee
C.O.C. No.: 3877
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/4/03	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1000	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Pump from borehole	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

- Rinsed preservative due to reaction

Circle if Applicable:

MS/MSD

Duplicate ID No.: KW-DUP-02-1103

Signature(s):

E. McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS- 16 -1103
Sample Location: G01-GS- 16
Sampled By: E. McRee
C.O.C. No.: 3877
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/14/03	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1040								
Method: pump from borehole	clear							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl None	3x40mL	✓
PAHs	None	2x1L amber	✓

OBSERVATIONS / NOTES:

-Rinsed preservative from VOA vials due to reaction

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Emily McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS- 17 -1103
Sample Location: G01-GS- 17
Sampled By: E. McRee
C.O.C. No.: 3877
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/4/03 Time: 1115 Method: Pump from borehole	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

- Rinsed preservative due to HCl reaction with limestone

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

E. McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS- 18 -1103
Sample Location: G01-GS- 18
Sampled By: E McKee
C.O.C. No.: 3877
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/14/03	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1200								
Method: Pump from borehole	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

- Rinsed pres. from VOA bottles due to reaction w/ water

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Eng Mckee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS- 19 -1103
Sample Location: G01-GS- 19
Sampled By: E McRee
C.O.C. No.: 3877
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 11/14/03								
Time: 1300								
Method: pump from borehole	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓
PAHs	None	2x1L amber	✓

OBSERVATIONS / NOTES:

- Rinsed preservative from VOA vials due to reaction

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Emily McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-20 -1103
Sample Location: G01-GS- 20
Sampled By: E McKee
C.O.C. No.: 3877
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 11/14/03								
Time: 1456								
Method: Pump from borehole								

PURGE DATA: No purge data was collected for groundwater screening samples.

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date:								
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl None	3x40mL	

OBSERVATIONS / NOTES:

Rinsed preservative from vial

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

E McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-21 -1103
Sample Location: G01-GS-21
Sampled By: E. McRee
C.O.C. No.: 3877
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 11/14/03								
Time: 1345								
Method: pump from borehole	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

Reused preservative due to reaction

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): E. McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-22-1103
Sample Location: G01-GS-22
Sampled By: E. McKee
C.O.C. No.: 3877
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 11/14/03								
Time: 1120								
Method: Pump from borehole	clear							

PURGE DATA: No purge data was collected for groundwater screening samples.

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date:								
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓
PAHs	None	2x1L amber	✓

OBSERVATIONS / NOTES:

Revised preservative due to reaction

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): E McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-23 -1103
Sample Location: G01-GS- 23
Sampled By: E. McKee
C.O.C. No.: 3878
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 4/15/03	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0740	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: pump from borehole	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

- Rinsed HCl from VOA vials due to reaction
- GB-23 position - N ~~24° 34' 32.0"~~ 24°34'32.3"
  W ~~081° 39' 30.64"~~ 081°39'36.5"

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

E. McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-24-1103
Sample Location: G01-GS-24
Sampled By: E McKee
C.O.C. No.: 3878
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/15/03	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0830	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Purge from borehole	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

- Rinsed HCl due to reaction w/ groundwater (limestone)
- Note: PID reading on soil from borehole
- SB-24 - ~~N24°34'37.3"~~ 24°34'32.1"
  ~~W081°39'36.5"~~ 81°39'36.0"

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

E. McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-25 -1103
Sample Location: G01-GS-25
Sampled By: E. McRee
C.O.C. No.: 3878
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/15/03	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0900	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: pump from borehole	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

- Rinsed preservative due to reaction w/HCl
SD-25 - N ~~24°34'32.4"~~ 24°34'32.7"
W ~~081°39'36.6"~~ 81°39'36.8"

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

E. McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-26 -1103
Sample Location: G01-GS-26
Sampled By: E. McRee
C.O.C. No.: 3878
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/15/03	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1000								
Method: pump from borehole	clear							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

~~Rinsed~~ preservative due to reaction with groundwater
SB-26 - N 24° 34' 32.2"
W 81° 39' 36.6"

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

E. McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-27-1103
Sample Location: G01-GS-27
Sampled By: E. McKee
C.O.C. No.: 3878
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/5/03	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1040	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Pump from borehole	clear							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

Rinsed preservative from VOA vial due to reaction w/ groundwater

Circle if Applicable:

MS/MSD	Duplicate ID No.:
	KW-DUP-03-1103

Signature(s):

E. McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-28 -1103
Sample Location: G01-GS-28
Sampled By: E. McRee
C.O.C. No.: 3878
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/10/03 Time: 1115 Method: pump from borehole	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

- Rinsed preservative from VOA vials due to reaction w/ groundwater

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Eq McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-29-1103
Sample Location: G01-GS-29
Sampled By: Emily McRee
C.O.C. No.: 3878
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/10/03	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1140								
Method: pump from borehole	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	

OBSERVATIONS / NOTES:

- Rinsed preservative due to reaction with groundwater

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Emily McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS- 30 -1103
Sample Location: G01-GS- 30
Sampled By: Emily McRee
C.O.C. No.: 2378
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/5/03	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1220								
Method: Pump from borehole								

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

- Rinsed preservative due to reaction with groundwater

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Emily McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-31 -1103
Sample Location: G01-GS-31
Sampled By: Emily McRee
C.O.C. No.: 3678
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 11/15/03								
Time: 1300								
Method: Pump from borehole	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓
PAHs	None	2x1L amber	✓

OBSERVATIONS / NOTES:

- Rinsed preservative due to reaction with groundwater
- definite sheen on water *

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Emily McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-32-1103
Sample Location: G01-GS-32
Sampled By: Emily Mikes
C.O.C. No.: 3878
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/5/03	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1345	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Dump from bucket								

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl None	3x40mL	✓
PAHs	None	2x1L amber	✓

OBSERVATIONS / NOTES:

- Rinsed preservative due to reaction with groundwater

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Emily Mikes

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-33 -1103
Sample Location: G01-GS- 33
Sampled By: Emily McRee
C.O.C. No.: 13874
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/6/03 / Time: 1400 / Method: pump from borehole	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓
PAHs	None	2x1L amber	✓

OBSERVATIONS / NOTES:

- Raised preservative due to reaction

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Emily McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS- 34 -1103
Sample Location: G01-GS- 34
Sampled By: Emily McKee
C.O.C. No.: 3878
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/6/03	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 0940								
Method: Pump from borehole	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl None	3x40mL	✓

OBSERVATIONS / NOTES:

-Rinsed preservative due to reaction with groundwater

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Emily McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-35-1103
Sample Location: G01-GS-35
Sampled By: Emily McKee
C.O.C. No.: 3878
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/6/03	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1010								
Method: Pump from borehole								

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl None	3x40mL	

OBSERVATIONS / NOTES:

- Rinsed pres due to reaction w/ groundwater

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Emily McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-36 -1103
Sample Location: G01-GS-36
Sampled By: Emily McRee
C.O.C. No.: 2879
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/16/03
Time: 1040
Method: Pump from borehole

Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
clear							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl None	3x40mL	✓
PAH	None	4oz L	✓

OBSERVATIONS / NOTES:

- Biased preservative due to reaction with groundwater

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
		Emily McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-37-1103
Sample Location: G01-GS-37
Sampled By: Emily McRee
C.O.C. No.: 3879
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 1/16/03	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1120								
Method: plug from borehole								

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl None	3x40mL	✓
PAHs	None	3x40mL	(EM)

OBSERVATIONS / NOTES:

- Biased preservative due to reaction with groundwater

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Emily McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS- 38 -1103
Sample Location: G01-GS- 38
Sampled By: Emily McRee
C.O.C. No.: 3879
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/16/03	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1330	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: pump from borehole	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓
PAHs	None	2x 1L amber	✓

OBSERVATIONS / NOTES:

Revised preservative due to reaction

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Emily McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-39-1103
Sample Location: G01-GS-39
Sampled By: Emily McKee
C.O.C. No.: 3879
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/16/03	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1300	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: pump from borehole	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

Revised preservative due to reaction with groundwater

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Emily McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS- 40 -1103
Sample Location: G01-GS- 40
Sampled By: Emily McKee
C.O.C. No.: 3879
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/16/03 / Time: 1345 / Method: pump from borehole	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	
PAHs	None	2x1L amber	

OBSERVATIONS / NOTES:

- Rinsed HCl from VOA vials due to reaction with groundwater

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Emily McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-41 -1103
Sample Location: G01-GS-41
Sampled By: Emily McRee
C.O.C. No.: 3879
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/6/03 / Time: 1420 / Method: pump from borehole	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	

OBSERVATIONS / NOTES:

- Rinsed preservative from VOA vials due to reaction with groundwater

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Emily McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-42-1103
Sample Location: G01-GS-42
Sampled By: Emily McRee
C.O.C. No.: 3879
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/16/03	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1515	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: Temp from borehole	Muddy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

-No preservative - rinsed due to reaction with water

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Emily McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-43 -1103
Sample Location: G01-GS-43
Sampled By: Emily McKee
C.O.C. No.: 3579
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/17/03	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 0800								
Method: pump from borehole	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓
PAHs	None	2x1L amber	✓

OBSERVATIONS / NOTES:

- Rinsed preservative due to reaction with groundwater

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Emily McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-44-1103
Sample Location: G01-GS-44
Sampled By: Emily McKee
C.O.C. No.: 3579
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 11/17/03	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Time: 0900								
Method: Pump from borehole	Clouds							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl None	3x40mL	✓

OBSERVATIONS / NOTES:

Final preservative due to reaction with groundwater

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Emily McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-45-1103
Sample Location: G01-GS-45
Sampled By: Emily McKee
C.O.C. No.: 3879
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/17/03	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 0940								
Method: Pump from borehole	Cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓

OBSERVATIONS / NOTES:

Rinsed preservative due to reaction with groundwater

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Emily McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-46 -1103
Sample Location: G01-GS-46
Sampled By: Emily McKee
C.O.C. No.: 3879
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/17/03	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1020								
Method: pump from borehole	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl None	3x40mL	✓
PAHs	None	2x1L amber	✓

OBSERVATIONS / NOTES:

- Rinsed preservative due to reaction w/ groundwater

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Emily McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS- 47 -1103
Sample Location: G01-GS- 47
Sampled By: Emily McRee
C.O.C. No.: 3879
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 11/7/03								
Time: 1050								
Method: pump from borehole	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl None	3x40mL	✓

OBSERVATIONS / NOTES:

-Rinsed preservative due to reaction w/groundwater

Circle if Applicable:

MS/MSD

Duplicate ID No.: KW-DUP-04-1103

Signature(s):

Emily McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS- 48 -1103
Sample Location: G01-GS- 48
Sampled By: Emily McRae
C.O.C. No.: 3880
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/7/03	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1120								
Method: pump from borehole	clear							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~ None	3x40mL	✓
PAHs	None	2x1L amber	✓

OBSERVATIONS / NOTES:

- Rinsed preservative due to reaction with groundwater

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Emily McRae

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS- 49 -1103
Sample Location: G01-GS- 49
Sampled By: Emily McRee
C.O.C. No.: 3980
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/17/03	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1200								
Method: pump from borehole	Cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl None	3x40mL	✓

OBSERVATIONS / NOTES:

- Rinsed pres. due to water

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Emily McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Gieger Key Hawk Missile
Project No.: CTO 318 - N4779

[ ] Domestic Well Data
[ ] Monitoring Well Data
[X] Other Well Type: Groundwater Screening (DPT Borehole)
[ ] QA Sample Type:

Sample ID No.: G01-GS-50-1103
Sample Location: G01-GS-50
Sampled By: Emily McRee
C.O.C. No.: 3880
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 11/17/03	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Time: 1215								
Method: pump from borehole	cloudy							

PURGE DATA: No purge data was collected for groundwater screening samples.

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date:								
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl None	3x40mL	✓

OBSERVATIONS / NOTES:

- Rinsed preservative due to reaction w/ groundwater

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Emily McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST
Project No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[X] Other Well Type: DPT borehole
[ ] QA Sample Type:

Sample ID No.: G01-GS-51-1103
Sample Location: G01-GS-51
Sampled By: Emily McRee
C.O.C. No.: 3880
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/17/03	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1250								
Method: ~~peristaltic/low flow~~ pump from borehole								

PURGE DATA:

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic/low flow								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type: 2" PVC								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs + BTEX, MTBE	—	3x 40 mL	

OBSERVATIONS / NOTES:

- Rinsed preservative due to reaction with groundwater

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): E. McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST
Project No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[X] Other Well Type: DPT Borehole
[ ] QA Sample Type:

Sample ID No.: 601-GS-52-1103
Sample Location: 601-GS-52
Sampled By: EM
C.O.C. No.: 3880
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 11/12/03 Time: 1340 Method: peristaltic/low flow pump from borehole	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
		Moody						

PURGE DATA:

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic/low flow								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type: 2" PVC								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PAL VOAs, BTEX, MTBE	—	3x40 mL	✓

OBSERVATIONS / NOTES:

- Rinsed gloves. Due to reaction w/ gw

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Eg McKa

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: G-01 Geigerkey Hawk
PROJECT NUMBER: CTO-318
DRILLING COMPANY: Precision
DRILLING RIG: B-57

BORING No.: G-01 MW-09, [redacted]
DATE: 2/4/04
GEOLOGIST: Amanda Shearer
DRILLER: Scott Hauge

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**	ppm
	0-2'		0-				asphalt							
	2.5					10yr 8/2	v. pale brown to white, silty oolite sand	SM						42
	4					10yr 8/1	white silty, slightly clayey oolite sand	SM	Petro Odor					272
							SAA		WT ~5'					
	8						SAA							160
	10						SAA							79.1
	12						SAA							

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: PE Photovac PID Petro odor

SAA: same as above

Drilling Area Background (ppm): 0.0

Converted to Well: Yes ✓ No ____ Well I.D. #: G-01 - MW-09

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: G-01 Geigen Key
PROJECT NUMBER: CTC 315
DRILLING COMPANY: Precision
DRILLING RIG: B-57

BORING No.: G-01 MW-10
DATE: 2/4/04
GEOLOGIST: Amanda Shearer
DRILLER: Scott Hauge

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**	PID (ppm)
	0-2'						asphalt							
	3					10YR 8/2	V pale brown to white silty oolite sand	Sm	Petro odor					96.1
	5					10YR 8/1	white silty clayey oolite sand	Sm	WT ~5'					129
	12						SAA							182

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: PE Photovac PID Petro odor

SAA = same as above

Drilling Area Background (ppm): 0.0

Converted to Well: Yes ✓ No ____ Well I.D. #: MW-10

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: G-01 Geiger Key
PROJECT NUMBER: CTO 318
DRILLING COMPANY: Precision
DRILLING RIG: B-57

BORING No.: G-01 MW-11
DATE: 2/4/01
GEOLOGIST: Amanda Shearer
DRILLER: Scott Hanger

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**	PID ppm
	0-2"						asphalt							
	2"-4'					10YR 8/2	v. pale brown to white silty oolitic sand	SM	Petro odor					303
	4'					10YR 8/1	white silty, sl. clayey oolitic sand	SM	"					192
	5'						SAA		WT ~ 5'					776
	12						SAA		Petro odor					240

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: PE Photovac PID Petro odor

SAA = same as above

Drilling Area Background (ppm): 0.0

Converted to Well: Yes ✓ No ____ Well I.D. #: MW-11

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: G-01 Geigerkey
PROJECT NUMBER: CTO 318
DRILLING COMPANY: Precision
DRILLING RIG: B-57

BORING No.: G-01 MW-12
DATE: 2/4/04
GEOLOGIST: Amanda Shearer
DRILLER: Scott Hanger

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**	PID PMR
	0					10YR 8/2	v pale brown to white silty oolitic sand	SM						
	3'						SAA		Petro odor					364
	5					10YR 8/1	white silty to slightly	SM	WT~5'					204
	12'						clayey oolitic sand!		Petro odor					

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: PE Photovac PID Petro odor
SAA = Same as above

Drilling Area Background (ppm): 0.0

Converted to Well: Yes ✓ No ____ Well I.D. #: G-01 MW-12

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: G-01 Geiger Key
PROJECT NUMBER: CTO 318
DRILLING COMPANY: Precision
DRILLING RIG: B-57

BORING No.: G-01 MW-~~17~~08
DATE: 2/4/04
GEOLOGIST: Amanda Shearer
DRILLER: Scott Hauge

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**	PID ppm
	0					10YR 8/2	V. pale brown to white, silty oolitic sand	SM						
	2													30.0
	4						SAA							25.6
	5					10YR	white, silty to sl.	SM	WT ~4.5'					138
	12					8/1	clayey oolitic sand		Slight Petro odor					

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: Slight petro odor below WT
PE Photovac PID
SAA = same as above

Drilling Area Background (ppm): 0.0

Converted to Well: Yes ✓ No ____ Well I.D. #: MW-17

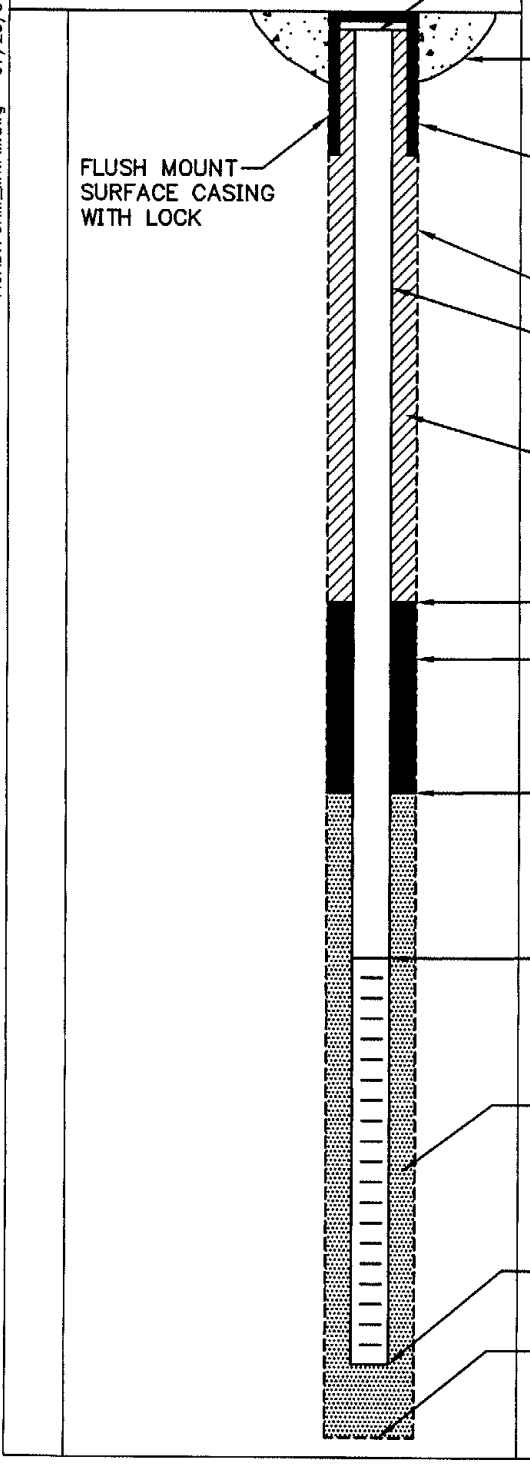
6-01
MW-09, MW-10

WELL NO.: MW-11, MW-12 & MW-08

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
FLUSH - MOUNT

PROJECT 6-01 Geiger Key	LOCATION NASKW	DRILLER Precision
PROJECT NO. CTO 315	BORING MW-09	DRILLING METHOD Hollow stem
DATE BEGUN 2/4/04	DATE COMPLETED 2/4/04	DEVELOPMENT METHOD Peristaltic
FIELD GEOLOGIST Amanda Shearer		
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER: _____

TYPE OF SURFACE SEAL: Concrete

TYPE OF PROTECTIVE CASING: Steel

I.D. OF PROTECTIVE CASING: 8-in 8-in ID

DIAMETER OF HOLE: 4.25 ~~4~~ inch

TYPE OF RISER PIPE: Schedule 40 PVC

RISER PIPE I.D.: 2-in

TYPE OF BACKFILL/SEAL: Ø

ELEVATION/DEPTH TOP OF SEAL: 16"

TYPE OF SEAL: 30/65 fine sand seal

ELEVATION/DEPTH TOP OF SAND: 1'

ELEVATION/DEPTH TOP OF SCREEN: 2

TYPE OF SCREEN: Sched. 40 PVC

SLOT SIZE x LENGTH: .010 x 10'

TYPE OF SAND PACK: 20/30

DIAMETER OF HOLE IN BEDROCK: 4.25 in.

ELEVATION / DEPTH BOTTOM OF SCREEN: 12

ELEVATION / DEPTH BOTTOM OF SAND: 12

ELEVATION/DEPTH BOTTOM OF HOLE: 12

BACKFILL MATERIAL BELOW SAND: silty organic fine sand

ACAD:FORM_MWFM.dwg 07/20/99 INL

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: G-01 Geigan Key Hawk Site
PROJECT NUMBER: C20 318
DRILLING COMPANY: Precision
DRILLING RIG: B-57

BORING No.: MW-[redacted]07
DATE: 2/4/04
GEOLOGIST: Amanda Shearer
DRILLER: Scott Hauge

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**	ppm
	0-2"						asphalt							
	2"-4'					10yr 8/2	very pale brown to white, silty oolite sand	SM						
	4'					10yr 8/1	white, silty, slightly clayey oolite sand	SM	Petro odor					861
							SAA		WT ~ 5'					
	10'						SAA							0
	15'						SAA							0
	25'						SAA							

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: Pt Photovac PID Petro odor Developed - slightly cloudy
SAA = Same as above

Drilling Area Background (ppm): 0.0

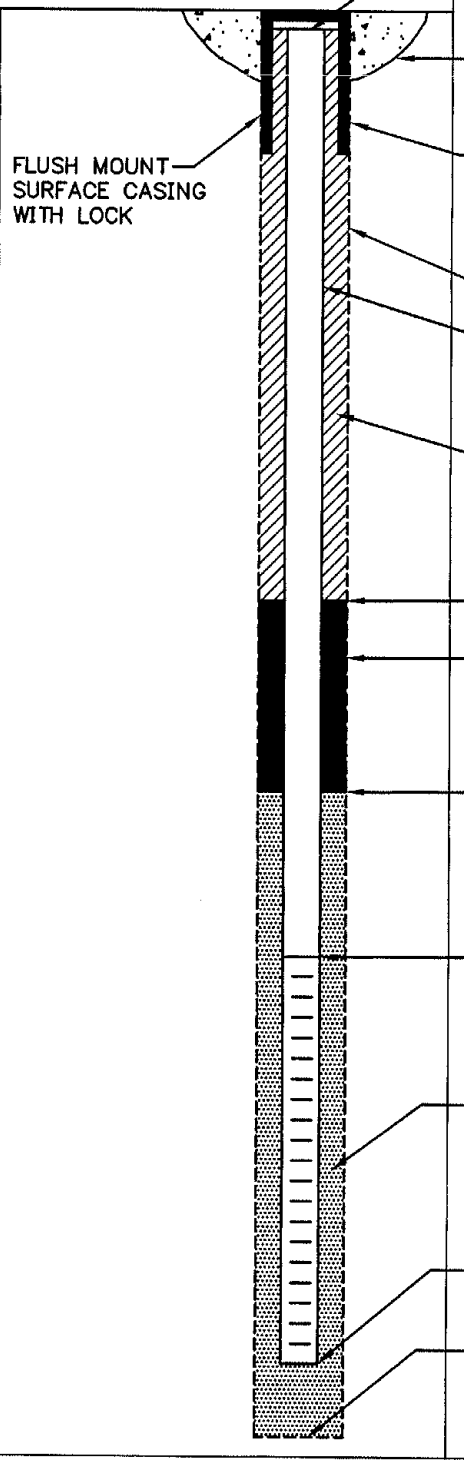
Converted to Well: Yes ✓ No ____ Well I.D. #: MW-8A

WELL NO.: G-01-MW-07

Tetra Tech NUS, Inc.

OVERBURDEN
MONITORING WELL SHEET
FLUSH - MOUNT

PROJECT Geigerkey G-01
PROJECT NO. CTO-318
DATE BEGUN 2/4/04
FIELD GEOLOGIST Amanda
GROUND ELEVATION
LOCATION NASKW Geigerkey
BORING MW-8A
DATE COMPLETED 2/4/04
DATUM
DRILLER Precision
DRILLING METHOD Hollow Stem
DEVELOPMENT METHOD Peristaltic



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL: Concrete

TYPE OF PROTECTIVE CASING: Steel

I.D. OF PROTECTIVE CASING: 8-in

DIAMETER OF HOLE: 4.25

TYPE OF RISER PIPE: Schedule 40 PVC

RISER PIPE I.D.: 2-in

TYPE OF BACKFILL/SEAL: Portland Type I + II

ELEVATION/DEPTH TOP OF SEAL: /16

TYPE OF SEAL: 30/65 fine sand

ELEVATION/DEPTH TOP OF SAND: /18

ELEVATION/DEPTH TOP OF SCREEN: /20'

TYPE OF SCREEN: Schedule 40 PVC

SLOT SIZE x LENGTH: 0.010 x 5'

TYPE OF SAND PACK: 20/30

DIAMETER OF HOLE IN BEDROCK: 4.25 in ID

ELEVATION / DEPTH BOTTOM OF SCREEN: /25'

ELEVATION / DEPTH BOTTOM OF SAND: /25'

ELEVATION/DEPTH BOTTOM OF HOLE: /25'

BACKFILL MATERIAL BELOW SAND: silty slightly clayey oolite sand

ACAD:FORM_MWFM.dwg 07/20/99 INL

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: NAS KW - Geiger Key Hawk Missile
Project No.: CTO 318/ N4779
Location: NAS KW, Florida
Personnel: Emily McRee, Brian Cole
Weather Conditions: clear, 70°
Measuring Device: Heron WLM, Keck Interface
Tidally Influenced: Yes X No ___
Remarks:

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
G01-MW-01	8/6/04	0831 ~~0830~~	4.8	11.5	4.13 ~~4.25~~	—	0.67	
G01-MW-01A		0830	4.84	25.0	4.25	—	0.59	
G01-MW-02		0832	4.22	11.4	3.5	—	0.72	
G01-MW-03		0833	3.02	11.8	2.33	—	0.69	
G01-MW-04		0834	4.81	11.52	4.1	—	0.71	
G01-MW-05		0846	3.93	11.5	3.30	—	0.63	
G01-MW-06		0840	4.94	11.4	4.41	4.35 = .06 4.41	0.58	
G01-MW-07		0839		25.05	4.64	—		
G01-MW-08		0845	No survey data yet	12.62	3.40	—		
G01-MW-09		0836		11.61	4.55	—		
G01-MW-10		0835		11.62	3.84	—		
G01-MW-11		0842		12.3	4.48	—		
G01-MW-12	↓	0844		11.75	3.79'	—		

Emily McRee

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Geiger Key Hawks
Project No.: N4779

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: GOI-MW-01-0204
Sample Location: GOI-MW-01
Sampled By: Emily McKee
C.O.C. No.: 3883
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 2/4/04	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1210	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: Peristaltic								

PURGE DATA: No purge data was collected for groundwater screening samples.

Date: 2/4/04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ Time
Method: Peristaltic	1.2gal	6.99	2.18	25.2	0	5.43	1.4	1127
Monitor Reading (ppm): 0.0	1.7	6.98	2.55	25.2	0	4.47	1.6	1132
Well Casing Diameter & Material	2.2	6.96	2.93	25.2	0	3.88	1.8	1137
Type: 2" PVC	2.7	6.95	3.15	25.3	0	3.53	2.0	1142
Total Well Depth (TD): 11.5	3.2	6.94	3.33	25.4	0	3.24	2.1	1147
Static Water Level (WL): 4.19	3.7	6.93	3.47	25.4	0	3.02	2.2	1152
One Casing Volume(gal/L): 1.7	4.2	6.93	3.62	25.5	0	1.74	2.3	1157
Start Purge (hrs): 11:15	4.7	6.93	3.72	25.5	0	1.37	2.4	1205
End Purge (hrs): 1205								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	
PAH	—	2x1Lamber	
TRPH	HCl	2x1Lamber	
EDB	HCl	2x40mL	
Lead	HNO_3	250mL HDPE	
Nitrate + Sulfate	—	125mL HDPE	
Methane	HCl	2x40mL	

OBSERVATIONS / NOTES:

- well screen partially submerged - tubing placed at 8' below TOC
pumping at ~300 mL/min, purged 1 vol before taking readings.
TDS - 14 g/L - water level stable at 4.4' bTOC
ORP - 361 mV - 20% DO - 1.04 l

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Emily McKee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Geiger Hawk
Project No.: N4779

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: G01-4W-01A-0204
Sample Location: G01-4W-01A
Sampled By: Emily McRee
C.O.C. No.: 3883
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 2/4/04	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1015	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: peristaltic-low flow	yellow	7.24	4.69	27.5	0	1.26	3.1	

PURGE DATA: No purge data was collected for groundwater screening samples.

Date: 2/4/04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ Time
Method: peristaltic-low flow	1 gal	7.17	4.24	27.5	0	2.52	2.7	0935
Monitor Reading (ppm): 0.0	1.5	7.21	4.49	27.5	54.6	2.18	2.9	0940
Well Casing Diameter & Material	2.5	7.23	4.64	27.4	118	1.79	3.0	0950
Type: 2" PVC	3.0	7.22	4.65	27.4	59.5	1.60	3.0	0955
Total Well Depth (TD): 25.0	3.5	7.22	4.66	27.4	18.2	1.45	3.0	1000
Static Water Level (WL): 4.5'	4.0	7.22	4.67	27.4	0	1.35	3.1	1015
One Casing Volume (gal/L): 3.44	4.5	7.24	4.69	27.5	0	1.26	3.1	1010
Start Purge (hrs): 0920								
End Purge (hrs): 1010								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 4.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	
PAH	—	2x1L amber rac trap used	✓
TRPH	HCl	2x1L amber	✓
EDB	HCl	2x40mL	
Lead	HNO_3	250 mL HDPE	
Nitrate + Sulfate	—	125 mL HDPE	
Methane	HCl	2x40mL	

OBSERVATIONS / NOTES:

- well screen fully submerged - placed tubing mid-screen (5 screen)
- water level stables at 4.65' below TOC

TDS = 26 g/L
ORP = -367
- dumped Horiba at 0943 because turb. was rising
- purge rate = 300 ml/min

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Emily McRee

Trip 1/26/04
0807

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST -
Project No.: N4779

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: G01-MW-02-0204
Sample Location: G01-MW-02
Sampled By: BC
C.O.C. No.: 3883
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 2/4/04								
Time: ~~1450~~ 1510	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: peri. pump	Clear	~~7.44~~	~~3.90~~ 3.93	~~26.60~~ 26.38	~~3.5~~ 3.1	~~2.67~~ 2.33	2.54	

PURGE DATA: No purge data was collected for groundwater screening samples.

	Volume (gal)	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 2/4/04								
Method: peri. pump	INT	7.53	4.69	26.92	76.6	6.06	3.14	1400
Monitor Reading (ppm): 2.9	0.5	7.52	4.80	27.03	62.9	5.68	3.03	1405
Well Casing Diameter & Material	1.0	7.54	4.80	27.07	49.2	5.39	3.12	1410
Type: 2" PVC	1.5	7.49	4.40	26.80	40.6	3.85	3.05	1415
Total Well Depth (TD): 11.4	2.0	7.43	4.71	26.75	32.6	4.43	3.07	1420
Static Water Level (WL): 3.55	2.5	7.44	4.40	26.71	15.8	4.53	3.03	1425
One Casing Volume (gal/L): ~~1.96~~ 1.76	3.0	7.46	4.27	26.67	7.5	2.72	2.72	1430
Start Purge (hrs): 1400	3.5	7.46	4.13	26.64	5.2	3.13	~~2.68~~ 2.58	1435
End Purge (hrs): 1510	4.0	7.45	4.08	26.62	4.6	2.61	2.53	1440
Total Purge Time (min): 70	4.5	7.45	3.98	26.61	1.2	2.59	2.56	1445
Total Vol. Purged (gal/L): 7.0	5.0	7.44	3.90	26.60	3.5	2.67	2.53	1450

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	3
EDB	HCL	2 x 40mL	2
methane	HCL	2 x 40mL	2
As, Cd, Cr, Pb	HNO_3	1 x 250mL HDPE	1
Nitrate + Sulfate	None	1 x 125mL HDPE	1
PAH	None	2 x 1L amber	2
TRPH	HCl	2 x 1L amber	2

OBSERVATIONS / NOTES:

5.5	7.44	3.98	26.55	6.8	2.15	2.48	1455
6.0	7.42	3.91	26.55	6.9	2.35	2.42	1500
6.5	7.41	3.96	26.56	6.0	2.40	2.45	1505
7.0	7.41	3.93	26.58	3.1	2.33	2.54	1510

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST -
Project No.: N4779

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: GQ1-MW-03-02004
Sample Location: GQ1 – MW-03
Sampled By: BC
C.O.C. No.: 3883
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 02/04/04	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1005	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: peri. pump	clear	6.98	2.40	26.49	3.3	2.87	1.44	

PURGE DATA: No purge data was collected for groundwater screening samples.

Date: 02/04/04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ TIME
Method: peri. pump	Init.	7.03	2.36	26.28	123.1	3.17	1.44	0945
Monitor Reading (ppm): 0.0	0.5	7.02	2.34	26.33	56.0	3.04	1.46	0950
Well Casing Diameter & Material	1.0	7.00	2.34	26.42	15.8	2.94	1.42	0955
Type: 2" PVC	1.5	6.99	2.33	26.47	5.0	2.76	1.46	1000
Total Well Depth (TD): 11.8	2.0	6.98	2.40	26.49	3.3	2.87	1.44	1005
Static Water Level (WL): 2.6								
One Casing Volume(gal/L): 1.48								
Start Purge (hrs): 0940								
End Purge (hrs): 1005								
Total Purge Time (min): 25								
Total Vol. Purged (gal/L): 2.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	3
EDB	HCl	2x40 mL	2
methane	HCl	2x40mL	2
As, Cd, Cr, Pb	HNO_3	1x250mL HDPE	1
Nitrate + Sulfate	None	1x125 mL HDPE	1
PAH	None	2 x 1L amber	2
TRPH	HCl	2 x 1L amber	2

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): B Cole

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Geiger Key Harbor
Project No.: N4779, CTO 318

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: GOI-MW-04-0402
Sample Location: GOI-MW-04
Sampled By: Emily McRee
C.O.C. No.: 3883
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 2/4/04	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1515	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Method: peristaltic-low flow	clear	6.72	3.46	26.4	0	1.19	2.2	

PURGE DATA: No purge data was collected for groundwater screening samples.

Date: 2/4/04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ Time
Method: Peristaltic-low flow	1.5gal	6.67	3.26	26.3	335	3.7	2.1	1435
Monitor Reading (ppm): 12.8	2.0	[illegible]	3.31	26.3	248	2.23	2.1	1440
Well Casing Diameter & Material	2.5	6.74	3.33	26.4	169	1.79	2.1	1445
Type: 2" PVC	3.0	6.71	3.37	26.4	143	1.70	2.1	1450
Total Well Depth (TD): 11.52	3.5	6.71	3.38	26.4	83.2	1.57	2.1	1455
Static Water Level (WL): 4.20	4.0	6.71	3.35	26.4	42.3	1.36	2.2	1500
One Casing Volume(gal/L): 1.3	4.5	6.72	3.41	26.3	17.5	1.26	2.2	1505
Start Purge (hrs): 1420	5.0	6.72	3.46	26.4	0	1.19	2.2	1510
End Purge (hrs): 1510								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	✓
PAH	—	2x1L amber	✓
TRPH	HCl	2x1L amber	✓
EDB	HCl	2x40mL	✓
Methane	HCl	2x40mL	✓
Lead	HNO_3	250mL HDPE	✓
sulfate + nitrate	—	125mL HDPE	✓

OBSERVATIONS / NOTES:

- well screen partially submerged, tubing set at 8' bTOC
- purge rate ≈ 300ml/min, purged 1.5 gallons before taking readings
20% sat DO - 1.611

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Emily McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST -
Project No.: N4779

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: G01-MW-05-0204
Sample Location: G01-MW-05
Sampled By: BC
C.O.C. No.: 3884
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 2/5/04	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Time: 0930								
Method: peri. pump	clear	7.20	0.982	25.10	6.2	2.66	0.55	

PURGE DATA: No purge data was collected for groundwater screening samples.

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 2/5/04								
Method: peri. pump	INT.	7.18	0.839	25.41	179.0	2.99	0.44	0840
Monitor Reading (ppm): 13.8	0.5	7.20	0.833	25.12	148.0	2.79	0.46	0845
Well Casing Diameter & Material	1.0	7.20	0.827	25.06	125.0	2.65	0.47	0850
Type: 2" PVC	2.0	7.20	0.928	25.17	107.0	2.63	0.52	0900
Total Well Depth (TD): 11.5	3.0	7.20	0.968	25.12	64.3	2.55	0.54	0910
Static Water Level (WL): 3.3	4.0	7.20	0.972	25.09	16.1	2.56	0.54	0920
One Casing Volume (gal/L): 1.312	4.5	7.20	0.969	25.10	8.2	2.68	0.55	0925
Start Purge (hrs): 0840	5.0	7.20	0.982	25.10	6.2	2.66	0.55	0930
End Purge (hrs): 0930								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	3
EDB	HCl	2 x 40mL	2
methane	HCl	2 x 40mL	2
Pb	HNO_3	1 x 250mL HDPE	1
Nitrate + Sulfate	None	1 x 125mL HDPE	1
PAH	None	2 x 1L amber	2
TRPH	HCl	2 x 1L amber	2

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): Brian Cole

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Osiga Key Harbor 601
Project No.: N4779 / CTO 318

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 601-MW-06-0204
Sample Location: 601-MW-06
Sampled By: Emily McRee
C.O.C. No.: 3884
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 2/5/04	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1000								
Method: peristaltic-low flow	clear	6.92	1.46	27.2	105	0.92	0.8	

PURGE DATA: No purge data was collected for groundwater screening samples.

Date: 2/5/04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic-low flow	1.5 gal	6.87	1.43	27.1	506	2.10	0.8	0815
Monitor Reading (ppm): 562	2.75	6.88	1.43	27.0	555	1.88	0.8	0850
Well Casing Diameter & Material	4.5 20	6.92	1.43	27.0	538	2.02	0.8	0855
Type: 2" PVC	3.225	6.93	1.43	27.1	463	1.64	0.8	0900
Total Well Depth (TD): 11.40	3.25	6.93	1.43	27.0	403	1.57	0.8	0905
Static Water Level (WL): 4.61	4.275	6.93	1.43	27.1	343	1.50	0.8	0910
One Casing Volume (gal/L): 1.1	4.530	6.94	1.44	27.1	408	1.42	0.8	0915
Start Purge (hrs): 0830	5.0 3.25	6.94	1.44	27.1	285	1.33	0.8	0920
End Purge (hrs): 0955	3.5	6.94	1.45	27.3	220	1.14	0.8	0930
Total Purge Time (min): 85	3.75	6.94	1.45	27.2	204	1.07	0.8	0935
Total Vol. Purged (gal/L): 5.25	4.0	6.94	1.45	27.2	177	1.02	0.8	0940

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~	3x40mL	✓
TRPH	HCl	2x 1L amber	✓
PAH	—	"	✓
Nitrate + Sulfate	—	125 mL HDPE	✓
Methane	~~HCl~~	2x40mL	✓
Arsenic, cadmium, chromium, lead	HNO_3	250 mL HDPE	✓
EDB	~~HCl~~	2x40mL	✓
Reporting TICs for VOC + SVOC (no additional bottles needed)			

Rinsed HCl due to reaction

OBSERVATIONS / NOTES:

- well screen partially submerged - placed tubing at 8' bTOC
- purged 1 vol before taking readings, water level stable at 4.8' bTOC
- purge rate ≈ 300 ml/min
- at 27.1°C, 20% sat DO = 1.591
- Discovered product in well while sampling VOCs!! Will submit sample + measure product after recovery.

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): E McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Geiger Key Haul 601
Project No.: N4779 / CTO 308

Sample ID No.: 601-MW-06-0204
Sample Location: 601-MW-06
Sampled By: Emily McRee
C.O.C. No.: 3884

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: / Time: / Method:	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
	see page 1 of 2							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date: 2/5/04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ Time
Method:	4.25gal	6.95	1.45	27.2	164	1.01	0.8	0945
Monitor Reading (ppm):	4.5	6.95	1.45	27.2	138	0.99	0.8	0950
Well Casing Diameter & Material	4.75	6.95	1.46	27.3	112	0.96	0.8	0955
Type:	5.0	6.92	1.46	27.3	107	0.93	0.8	0950
Total Well Depth (TD):	5.25	6.92	1.46	27.2	105	0.92	0.8	0955
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

see page 1 of 2

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	
	1		

see page

OBSERVATIONS / NOTES:

5 well volumes = 5.5 gallons
- purged until turbidity stabilized

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Emily McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Geiger Key Hawk GOI
Project No.: CTO 310/N4879

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: GOI-MW-07-0204
Sample Location: GOI-MW-07
Sampled By: Emily McRee
C.O.C. No.: 3831
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 2/6/04	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1510								
Method: peristaltic-low flow								

PURGE DATA: ~~No purge data was collected for groundwater screening samples.~~

Date: 2/6/04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ Time
Method: peristaltic-low flow	1.0 gal	6.78	4.03	28.9	>999	6.32	2.6	1410
Monitor Reading (ppm): 0.0	1.33	6.87	3.96	28.1	723	4.62	2.5	1415
Well Casing Diameter & Material	1.66	6.85	3.90	28.7	382	3.01	2.5	1420
Type: 2" PVC	2.0	6.85	3.90	28.8	208	2.47	2.5	1425
Total Well Depth (TD): 25.05	2.33	6.85	3.90	28.8	193	2.22	2.5	1430
Static Water Level (WL): 4.87	2.66	6.85	3.93	28.9	130	1.96	2.5	1435
One Casing Volume (gal/L): 3.2	3.0	6.85	3.92	28.9	96.9	1.77	2.5	1440
Start Purge (hrs): 1355	3.33	6.86	3.92	28.9	51.0	1.63	2.5	1445
End Purge (hrs): 1505	3.66	6.86	3.93	28.8	27.8	1.52	2.5	1450
Total Purge Time (min): 70	4.0	6.86	3.95	28.8	[illegible]	1.45	2.5	1455
Total Vol. Purged (gal/L): 4.33	4.33	6.86	3.95	28.8	14.2	1.36	2.5	1500
SAMPLE COLLECTION INFORMATION: 466	6.86	3.97	28.8	0	1.30	2.5	1505	

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	✓
PAH	—	2x1L amber	✓
TRPH	HCl	2x1L amber	✓
Methane		2x40mL	✓
EDB		2x40mL	✓
Lead, Arsenic, Cadmium, Chromium	HNO_3	250mL HDPE	✓
Nitrate + Sulfate	—	125mL HDPE	✓
Reporting Organic TICs for Used Oil Group			
DO = 0.7 mg/L Chemets kit R-7501 0-1 ppm			
CO_2 = 19 mg/L Chemetrics Titrets K-1910 10-100 ppm			

OBSERVATIONS / NOTES:

- well screen fully submerged (5' screen), purged until WL stabilized at 6.35' BTOC
- pump rate = 300mL/min
- @ 28.8°C - 20% sat DO = 1.544 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Emily McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST -
Project No.: N4779

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: G01-MW-08-0204
Sample Location: G01-MW-08
Sampled By: BC
C.O.C. No.: 3931
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 2/6/04	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1605	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: peri. pump	clear	7.07	0.729	24.88	36.3	3.35	0.03	

PURGE DATA: No purge data was collected for groundwater screening samples.

Date: 2/6/04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peri. pump	INT	7.35	0.810	25.22	181.0	4.68	0.04	1455
Monitor Reading (ppm): 14.8	0.5	7.12	0.778	24.94	85.5	3.72	0.03	1505
Well Casing Diameter & Material	1.0	7.10	0.790	25.01	74.2	3.56	0.03	1510
Type: 2" PVC	1.5	7.08	0.765	24.93	59.4	3.49	0.03	1515
Total Well Depth (TD): 12.62	2.0	7.08	0.760	24.86	45.8	3.48	0.03	1520
Static Water Level (WL): 3.34	2.5	7.07	0.756	24.89	48.3	3.43	0.03	1525
One Casing Volume(gal/L): 1.48	3.0	7.06	0.759	24.98	43.5	3.36	0.03	1530
Start Purge (hrs): 1455	3.5	7.06	0.755	24.88	38.3	3.38	0.03	1535
End Purge (hrs): 1605	4.0	7.06	0.746	24.80	37.8	3.36	0.03	1540
Total Purge Time (min): 70	4.5	7.06	0.742	24.83	35.5	3.36	0.03	1545
Total Vol. Purged (gal/L): 6.5	5.0	7.06	0.739	24.85	37.8	3.36	0.03	1550

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	3
EDB	HCl	2 x 40mL	2
methane	HCl	2 x 40mL	2
PAH	none	2 x 1L amber	2
TRPH	HCl	2 x 1L amber	2
Nitrate + Sulfate	none	1 x 125mL HDPE	1
As, Cd, Cr, Pb	HNO_3	1 x 250mL HDPE	1

OBSERVATIONS / NOTES:

- slight fuel odor
- readings stable, sample @ 1605
DO = CHEMets K7501 = 0.8mg/L
CO_2 = CHEMets K1920 = 110mg/L

5.5	7.07	0.734	24.78	38.4	3.36	0.03	1555
6.0	7.07	0.732	24.85	34.4	3.35	0.03	1600
6.5	7.07	0.729	24.88	36.3	3.35	0.03	1605

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Geiger Key Hawsh
Project No.: CTO 318/N4799 0

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: GOI-MW-09-0204
Sample Location: GOI-MW-09
Sampled By: Emily McRee
C.O.C. No.: 3831
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 2/6/04 Time: 1240	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Method: Peristaltic low flow	clear	6.56	2.65	27.8	19.0	1.71	1.6	

PURGE DATA: ~~No purge data was collected for groundwater screening samples.~~

Date: 2/6/04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	~~Other~~ Time
Method: Peristaltic-low flow	1.33gal	6.48	2.54	27.5	136	5.42	1.6	1150
Monitor Reading (ppm): 0.0	1.66	6.52	2.55	27.5	135	3.43	1.6	1155
Well Casing Diameter & Material	2.0	6.53	2.57	27.5	95.7	2.83	1.6	1200
Type: 2" PVC	2.33	6.53	2.58	27.6	90	2.51	1.6	1205
Total Well Depth (TD): 11.61	2.66	6.54	2.60	27.6	58.7	2.31	1.6	1210
Static Water Level (WL): 4.50	3.0	6.54	2.61	27.6	38.3	2.15	1.6	1215
One Casing Volume(gal/L): 1.14	3.33	6.55	2.61	27.7	38	2.05	1.6	1220
Start Purge (hrs): 1130	3.66	6.55	2.63	27.7	11.2	1.86	1.6	1225
End Purge (hrs): 1235	4.0	6.55	2.65	27.8	18.9	1.75	1.6	1230
Total Purge Time (min): 65	4.33	6.56	2.65	27.8	19.0	1.71	1.6	1235
Total Vol. Purged (gal/L): 4.3								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	~~HCl~~	3x40mL	✓
PAH	—	2x1L amber	✓
TRPH	HCl	2x1L amber	✓
EDB	~~HCl~~	2x40mL	✓
Methane	~~HCl~~	2x40mL	✓
Nitrate + Sulfate	—	125mL HDPE	✓
Lead	HNO_3	250mL HDPE	✓
DO = 0.4 mg/L Chemets R-7501 0-1 ppm			
CO_2 = 150 mg/L Chemetrics Titrets K-1920 100-1000 ppm			

Rinsed w/ res. fm RFFN
W/ GW

OBSERVATIONS / NOTES:

- well screen partially submerged, placed tubing at ≈8' BTOC
- purge rate ≈ 200mL/min - purged 1 volume of well before taking readings
- water level stable at 4.59' BTOC
- @ 27.6°C, 20% sat DO = 1.577 mg/L
- DO not below 20%, but stabilized ±0.2mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Emily McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Geiger Key Hawk 601
Project No.: CTO 318/N47790

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 601-MW-10-0204
Sample Location: 601-MW-10
Sampled By: Emily McRee
C.O.C. No.: 3831
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 2/6/04	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1025	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: peristaltic-low flow	clear	6.64	1.59	27.0	154	1.79	0.9	

PURGE DATA: No purge data was collected for groundwater screening samples.

Date: 2/6/04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peristaltic-low flow	1.50	6.60	1.53	27.0	390	5.00	0.9	0930
Monitor Reading (ppm): 0.0	1.75	6.63	1.56	26.9	370	2.95	0.9	0935
Well Casing Diameter & Material	2.0	6.64	1.57	26.9	295	2.63	0.9	0940
Type: 2" PVC	2.25	6.65	1.58	26.9	252	2.36	0.9	0945
Total Well Depth (TD): 11.62	2.5	6.63	1.58	26.9	253	2.24	1.0	0950
Static Water Level (WL): 3.81	2.75	6.64	1.56	27.0	206	2.10	0.9	0955
One Casing Volume (gal/L): 1.23	3.0	6.64	1.58	27.0	182	2.16	0.9	1000
Start Purge (hrs): 0915	3.25	6.64	1.57	27.0	155	2.06	0.9	1005
End Purge (hrs): 1020	3.5	6.64	1.56	27.0	152	1.97	0.9	1010
Total Purge Time (min): 65	3.75	6.64	1.59	27.0	153	1.85	0.9	1015
Total Vol. Purged (gal/L): 4.0	34.0	6.64	1.59	27.0	154	1.79	0.9	1020

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	✓
PAH	—	2x 1L amber	✓
TRPH	HCl	2x 1L amber	✓
Lead	HNO_3	250 mL HDPE	✓
EDB	HCl	2x40mL	✓
Methane	HCl	2x40mL	✓
Nitrate + Sulfate	—	125 mL HDPE	✓
DO = 0.3 mg/L - Chemets DO	K-7501	0-1mg/L	
CO_2 = 130 mg/L - chemetrics Titrets	K-1920	100-1000ppm	

OBSERVATIONS / NOTES:

- well screen partially submerged - tubing placed at ≈ 7' BTOC
- purged 1 well volume before taking readings, water level stable at 4.02' BTOC
- purge rate ≈ 300mL/min
- @ 26.9°C - 20% sat DO = 1.597 mg/L
- turbidity + DO stabilized, although not below specs, collected sample after stabilization

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Emily McRee

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST -
Project No.: N4779

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: G01-MW-11-0204
Sample Location: G01 - MW-11
Sampled By: BC
C.O.C. No.: 3831
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 2/6/04	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/l)	(%)	
Time: 1000								
Method: peri. pump	Clear	7.00	0.865	27.27	5.9	3.79	0.48	

PURGE DATA: No purge data was collected for groundwater screening samples.

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 2/6/04								
Method: peri. pump	INT	6.86	0.865	27.37	122.0	5.15	0.48	0910
Monitor Reading (ppm): 0.0	1.0	6.99	0.868	27.31	59.8	4.09	0.48	0920
Well Casing Diameter & Material	2.0	7.00	0.869	27.26	37.5	3.89	0.48	0930
Type: 2" PVC	2.5	7.01	0.869	27.25	27.7	4.27	0.48	0935
Total Well Depth (TD): 12.3	3.0	7.00	0.871	27.29	21.7	3.97	0.48	0940
Static Water Level (WL): 4.35	3.5	7.00	0.870	27.25	10.8	3.85	0.48	0945
One Casing Volume (gal/L): 1.27	4.0	7.00	0.867	27.25	11.4	3.77	0.48	0950
Start Purge (hrs): 0910	4.5	7.00	0.864	27.30	12.0	3.80	0.48	0955
End Purge (hrs): 1000	5.0	7.00	0.865	27.27	5.9	3.79	0.48	1000
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 5.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	3
EDB	HCl	2 x 40mL	2
methane	HCl	2 x 40mL	2
PAHs	none	2 x 1 L amber	2
TRPH	HCl	2 x 1 L amber	2
Nitrate + Sulfate	none	1 x 125mL HDPE	1
As, Cd, Cr, Pb	HNO_3	1 x 250mL HDPE	1

OBSERVATIONS / NOTES:

Slight odor of fuel

DO = CHEMets R-7501 = 0.6 mg/L

CO_2 = CHEMets K-1920 = 155 mg/L
(100-1000ppm)

Circle if Applicable:

MS/MSD | Duplicate ID No.: KW-DUP-02-0204

Signature(s): B Cole

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST -
Project No.: N4779

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: G01-MW-12-0204
Sample Location: G01 - MW-12
Sampled By: BC
C.O.C. No.: 3831
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 2/6/04	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1330	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: peri. pump	clear	6.90	0.553	26.11	39.6	3.31	0.29	

PURGE DATA: No purge data was collected for groundwater screening samples.

Date: 2/6/04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peri. pump	INT	7.26	0.606	26.14	374.0	5.47	0.32	1200
Monitor Reading (ppm): 0.0	1.0	6.95	0.617	26.09	264.0	3.87	0.33	1210
Well Casing Diameter & Material	2.0	6.92	0.609	26.01	137.0	3.65	0.33	1220
Type: 2" PVC	3.0	6.92	0.604	26.07	80.3	3.61	0.32	1230
Total Well Depth (TD): 11.75	4.0	6.91	0.595	26.10	57.6	3.59	0.32	1240
Static Water Level (WL): 3.64	5.0	6.91	0.591	26.19	45.1	3.49	0.31	1250
One Casing Volume(gal/L): 1.3	6.0	6.91	0.573	26.17	38.5	3.44	0.31	1300
Start Purge (hrs): 1200	7.0	6.91	0.566	26.15	36.8	3.39	0.30	1310
End Purge (hrs): 1330	8.0	6.90	0.554	26.15	37.9	3.36	0.29	1320
Total Purge Time (min): 90	9.0	6.90	0.553	26.11	39.6	3.31	0.29	1330
Total Vol. Purged (gal/L): 9.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	3
EDB	HCl	2x40mL	2
methane	HCl	2x40mL	2
PAH	none	2x1L amber	2
TRPH	HCL	2x1L amber	2
Nitrate + Sulfate	none	1x 125ml HDPE	1
As, Cd, Cr, Pb	HNO_3	1x 250mL HDPE	1

OBSERVATIONS / NOTES:

- readings stable - sample @ 1330
- slight fuel odor

DO = CHEMets K7501 = 0.8 mg/L
CO_2 = CHEMets K1920 = 122 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

B Cook

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: NAS KW - Geiger Key Hawk Missile
Project No.: CTO 318/ N4779
Location: NAS KW, Florida
Personnel: Gary Braganza, Brian Cole
Weather Conditions: Sunny, windy, 85°
Measuring Device: Solinst
Tidally Influenced: Yes X No ___
Remarks:

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
G01-MW-01	5/20/04	11:20	4.80	11.47	4.42			
G01-MW-01A		11:18	4.84	24.55	3.74			
G01-MW-02		11:22	4.22	11.20	3.75			
G01-MW-03		11:24	3.02	11.50	2.40			
G01-MW-04		11:15	4.81	11.48	4.40			
G01-MW-05		11:13	3.93	11.38	3.41			
G01-MW-06		11:20	4.99	11.53	4.15			hard water
G01-MW-07		11:25		~~11.53~~ 24.90	4.21			
G01-MW-08		11:11		12.37	3.45			
G01-MW-09	5/20/04	10:57		11.60	4.55			
G01-MW-10		11:37		11.65	~~4~~ 3.89			
G01-MW-11		11:07		12.05	4.53			
G01-MW-12		11:09		11.49	3.55			

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST -
Project No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: G01-MW-01-0504
Sample Location: G01-MW-01
Sampled By: BC
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 5/26/04	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1015	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Method: peri pump	clear							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date: 5/26/04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peri pump	INT	6.98	36.3	26.20	151.0	1.16	2.31	0915
Monitor Reading (ppm): 0.0	1.0	6.97	36.3	26.25	56.9	0.51	2.31	0925
Well Casing Diameter & Material	2.0	7.04	34.1	26.38	6.5	0.46	2.16	0935
Type: 2" PVC	3.0	7.06	36.1	26.39	83.9	0.49	2.30	0945
Total Well Depth (TD): 11.42	4.0	7.06	36.7	26.40	153.0	0.50	2.34	0955
Static Water Level (WL): 4.42	5.0	7.04	37.3	26.36	45.9	0.48	2.38	1005
One Casing Volume (gal/L): 1.12	6.0	7.05	37.8	26.37	33.8	0.47	2.41	1015
Start Purge (hrs): 0915								
End Purge (hrs): 1015								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 6.0								

7.06 - 1.12 = 5.94

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	9
EDB	HCl	2 x 40mL glass	6
methane	HCl	2 x 40mL glass	6
TRPH	HCl	2 x 1 L amber	6
PAH	none	2 x 1 L amber	6
Pb	HNO_3	1 x 250mL poly	3
nitrate + sulfate	none	1 x 125 mL poly	3

OBSERVATIONS / NOTES:

★ H_2S odor

CO_2 = 900ppm

DO = 0.1 mg/L

Circle If Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST -
Project No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: GOI-MW-01A-0504
Sample Location: GOI-MW-01A
Sampled By: BC
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 5/25/04								
Time: 1535								
Method: peri pump	clear	7.08	42.8	27.37	0	0.32	2.77	—

PURGE DATA: No purge data was collected for groundwater screening samples.

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 5/25/04								
Method: peri pump	INT	7.17	35.5	27.05	18.3	1.16	2.26	1445
Monitor Reading (ppm): 0.0	1.0	7.03	39.1	27.17	0.7	0.36	2.52	1450
Well Casing Diameter & Material Type: 2" PVC	2.0	7.11	42.1	27.32	29.4	0.32	2.72	1505
Total Well Depth (TD): 24.55	3.0	7.09	42.6	27.35	26.3	0.30	2.76	1515
Static Water Level (WL): 3.74	4.0	7.09	42.8	27.37	15.6	0.31	2.77	1525
One Casing Volume(gal/L): 3.33	4.5	7.08	42.8	27.36	5.3	0.31	2.77	1530
Start Purge (hrs): 1445	5.0	7.08	42.8	27.37	0	0.32	2.77	1535
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

0.81
.16
3.3296

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	3
PAH	none	2 x 1L amber	2
TRPH	HCl	2 x 1L amber	2
EDB	HCl	2 x 40ml glass	2
methane	HCl	2 x 40 ml glass	2
Pb	HNO3	1 x 250ml poly	1
nitrate + sulfate	none	1 x 125 ml poly	1

OBSERVATIONS / NOTES:

CO_2 = 45 ppm

DO = 0.3 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST -
Project No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: 601-MW-02-0504
Sample Location: 601-MW-02
Sampled By: BC
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 5/24/04	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (^{0}C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1400								
Method: peri pump	clear							

PURGE DATA: No purge data was collected for groundwater screening samples.

Date: 5/24/04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peri pump	INT	6.60	34.3	28.25	0	3.42	2.14	1300
Monitor Reading (ppm): 0.0	1.0	6.66	33.6	27.93	39.7	0.55	2.12	1310
Well Casing Diameter & Material Type: 2" PVC	2.0	6.66	33.8	28.04	40.6	0.64	2.14	1320
	3.0	6.66	33.8	27.97	14.6	0.71	2.14	1330
Total Well Depth (TD): 11.20	4.0	6.67	33.9	27.89	0	0.63	2.14	1340
Static Water Level (WL): 3.75	5.0	6.67	33.9	28.01	0	0.59	2.15	1350
One Casing Volume (gal/L): 1.192	6.0	6.66	33.9	27.93	0	0.54	2.16	1400
Start Purge (hrs): 1300								
End Purge (hrs): 1400								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 6.0								

7.45
.16
1.192

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	3
methane	HCl	2 x 40mL glass	2
EDB	HCl	2 x 40mL glass	2
TRPH	HCl	2 x 1L amber	2
Pb	HNO_3	1 x 250ml amber	1
PAH	none	2 x 1L amber	2
nitrate + sulfate	none	1 x 125mL glass	1

OBSERVATIONS / NOTES:

* H_2S odor

CO_2 = 115 ppm

DO = 1.0 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST -
Project No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: G01-MW-03-0504
Sample Location: G01-MW-03
Sampled By: GB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 5/20/04	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	~~Other~~ ORP
Time: 13:45								
Method: Peristaltic	clear	6.85	31.6	27.45	18.0	0.02	1.99	-346

PURGE DATA: No purge data was collected for groundwater screening samples.

Date: 5/20/04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other Time
Method: Peristaltic	2000 ml	6.83	30.5	27.38	34.5	0.40	1.72	13:20
Monitor Reading (ppm): N/A	1000 ml	6.84	31.2	27.41	61.1	0.17	1.96	13:25
Well Casing Diameter & Material Type: 2" PVC	1000 ml	6.85	31.5	27.43	37.6	0.06	1.98	13:30
	1000 ml	6.85	31.6	27.44	27.4	0.00	1.99	13:35
Total Well Depth (TD): 11.50	1000 ml	6.85	31.6	27.45	18.2	0.02	1.99	13:40
Static Water Level (WL): 2.40								
One Casing Volume(gal/L): 5.6L								
Start Purge (hrs): 13:10								
End Purge (hrs): 13:40								
Total Purge Time (min): 30								
Total Vol. Purged (gal/L): 6 L								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	✓
PAH		2x liter amber	✓
TRPH		2x liter amber	✓
EDB		2x40ml	✓
lead		1x250ml	✓
Nitrate + Sulfate		1x125ml	✓
Methane		2x40ml	✓

OBSERVATIONS / NOTES:

CO_2 = 140 ppm

DO = 0.5 ppm

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Gary Brego

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST -
Project No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: GOI-MW-04-0504
Sample Location: GOI-MW-04
Sampled By: BC
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 5/24/01								
Time: 0940								
Method: Low flow	Clear	6.58	38.0	26.40	0	0.34	2.43	—

PURGE DATA: No purge data was collected for groundwater screening samples.

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 5/24/01								
Method: Low flow	INT	6.50	46.7	26.31	139.0	1.46	3.04	0440
Monitor Reading (ppm): 0.0	1.0	6.55	45.8	26.36	66.7	0.55	2.99	0450
Well Casing Diameter & Material Type: 2" PVC	2.0	6.58	40.3	26.37	18.7	0.65	2.60	0700
Total Well Depth (TD): 11.48	3.0	6.59	38.2	26.37	4.2	0.46	2.45	0910
Static Water Level (WL): 4.40	4.0	6.58	37.9	26.39	0	0.32	2.43	0920
One Casing Volume (gal/L): 1.13	5.0	6.59	37.8	26.40	0	0.34	2.42	0930
Start Purge (hrs): 0840	6.0	6.59	38.0	26.40	0	0.34	2.43	0940
End Purge (hrs): 0940								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 6.0								

7.08 lb / 1.13 lb

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	3
EDB	HCl	2x 40ml glass	2
methane	HCl	2x 40ml glass	2
TRPH	HCl	2x 1L amber	2
PAH	none	2x 1L amber	2
Pb	HNO_3	1x 250mL poly	1
nitrate-sulfate	none	1x 125mL poly	

OBSERVATIONS / NOTES:

H_2S odor

CO_2 = 90 ppm

DO = 0.6 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Boca Keys
Project No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: G01-MW-05-0504
Sample Location: G01-MW-05
Sampled By: SB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date: 5/24/04								
Time: 13:35								
Method: Peristaltic	Clear	6.96	21.2	28.32	3.0	0.28	1.14	-35.7

PURGE DATA: No purge data was collected for groundwater screening samples.

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other T...
Date: 5/24/04								
Method: Peristaltic pump	2000 ml	6.97	24.6	28.13	40.1	1.15	1.50	13:00
Monitor Reading (ppm): 0	1000 ml	6.82	23.9	28.25	22.2	0.91	1.42	13:05
Well Casing Diameter & Material Type: 2" PVC	1000 ml	6.86	22.7	28.30	17.0	0.71	1.37	13:10
	1000 ml	6.87	21.4	28.31	9.6	0.41	1.30	13:15
Total Well Depth (TD): 11.38	1000 ml	6.89	21.2	28.31	2.8	0.34	1.20	13:20
Static Water Level (WL): 3.41	1000 ml	6.90	21.1	28.30	4.8	0.30	1.15	13:25
One Casing Volume(gal/L):	1000 ml	6.90	21.2	28.30	3.4	0.25	1.14	13:30
Start Purge (hrs): 12:50								
End Purge (hrs): 13:30								
Total Purge Time (min): 40								
Total Vol. Purged (gal/L): 8 L								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	✓
PAH	—		✓
THM	HCl		✓
EDB	HCl		✓
lead	HNO_3		✓
Acetone	HCl		✓
NO_3, TSO_4	none		✓

OBSERVATIONS / NOTES:

CO_2 = 180 ppm
DO = 0.25 ppm

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST -
Project No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: COI-07 MW-0504
Sample Location: COI-07-MW
Sampled By: BC
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 5/2/04								
Time: 1055								
Method: peristaltic pump	clear	7.06	39.8	27.66	6.1	0.27	2.56	—

PURGE DATA: No purge data was collected for groundwater screening samples.

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 5/2/04								
Method: peristaltic pump	INT	7.23	45.2	27.53	386.0	1.67	2.94	0915
Monitor Reading (ppm): 0.0	1.0	7.05	41.7	27.57	70.5	0.37	2.64	0925
Well Casing Diameter & Material	2.0	7.11	38.6	27.58	630.0	0.32	2.48	0935
Type: 2" PVC	3.0	7.10	39.2	27.57	207.0	0.64	2.52	0945
Total Well Depth (TD): 24.90	4.0	7.07	39.4	27.57	89.5	0.43	2.53	0955
Static Water Level (WL): 4.21	5.0	7.09	39.6	27.59	57.9	0.36	2.53	1005
One Casing Volume (gal/L): 3.3	6.0	7.07	39.8	27.62	37.3	0.36	2.55	1015
Start Purge (hrs): 0915	7.0	7.06	40.0	27.61	33.8	0.33	2.57	1025
End Purge (hrs): 1055	8.0	7.04	39.8	27.62	32.2	0.29	2.56	1035
Total Purge Time (min): 100	9.0	7.05	39.7	27.62	8.8	0.28	2.55	1045
Total Vol. Purged (gal/L): 10.0	10.0	7.06	39.8	27.66	6.1	0.27	2.56	1055

10.69
.16
3.3104

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	6
PAH	none	2x 1L amber	4
TRPH	HCl	2x 1L amber	4
EDB	HCl	2x 40mL glass	4
methane	HCl	2x 40mL glass	4
nitrate + sulfate	none	1x 125mL poly	2
As, Cd, Cr, Pb	HNO_3	1x 250mL poly	2
Non-PPL analytes	none	2x 1L amber	6 ~~8~~
"	HCl	2x 40mL glass	4

OBSERVATIONS / NOTES:

* H_2S odor

CO_2 = 850 ppm
DO = 0.8 mg/L

*

Circle if Applicable:

MS/MSD | (Duplicate ID No.:) KW-DUP-02-0504

Signature(s): B Cole

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Geiger Key
Project No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: G01-MW-08-0504
Sample Location: G01-MW-08
Sampled By: GB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date: 5/25/04								
Time: 15:10								
Method: Peristaltic	Clear	6.97	7.05	27.04	1.5	0.30	0.36	-36.1

PURGE DATA: No purge data was collected for groundwater screening samples.

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 5/25/04								
Method: Peristaltic	2000 ml	6.90	7.18	27.02	4.7	0.70	0.39	14:40
Monitor Reading (ppm): 0	1000 ml	6.89	7.16	27.03	2.0	0.56	0.37	14:45
Well Casing Diameter & Material Type: 2" PVC	1000 ml	6.95	7.09	27.03	1.2	0.44	0.38	14:50
	1000 ml	6.96	7.05	27.03	2.5	0.37	0.37	14:55
Total Well Depth (TD): 12.37	1000 ml	6.97	7.05	27.04	1.3	0.32	0.36	15:00
Static Water Level (WL): 3.45	1000 ml	6.97	7.05	29.05	1.5	0.30	0.36	15:05
One Casing Volume(gal/L): 1.5L								
Start Purge (hrs): 14:30								
End Purge (hrs): 15:05								
Total Purge Time (min): 35								
Total Vol. Purged (gal/L): 7L								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL + 3x40mL	✓
PAH	—	6x Liter (TIC)	✓
TRPH		2x Liter	✓
FIXS		2x40ml	✓
Pb, As, Cd, Cr		1-250ml	✓
Methane		3x40ml	✓
NO3 & SO4		1-125ml	✓

OBSERVATIONS / NOTES:

CO_2 = 160 ppm
DO = 0.1 ppm

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Gary Breiger

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Geiger Key
Project No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: GO1-MW-09-0504
Sample Location: GO1-MW-09
Sampled By: GB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 5/25/04	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 9:40								
Method: Peristaltic	Clear	6.84	22.6	28.21	4.1	0.62	1.40	-369

PURGE DATA: No purge data was collected for groundwater screening samples.

Date: 5/25/04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: Peristaltic	2000 ml	6.83	21.6	28.25	26.3	1.03	1.30	9:15
Monitor Reading (ppm): 0	1000 ml	6.84	21.9	28.22	12.4	0.71	1.32	9:20
Well Casing Diameter & Material Type: 2" PVC	1000 ml	6.84	22.2	28.23	3.6	0.59	1.33	9:25
Total Well Depth (TD): 11.60	1000 ml	6.84	22.5	28.22	5.2	0.56	1.37	9:30
Static Water Level (WL): 4.55	1000 ml	6.84	22.6	28.21	4.1	0.62	1.40	9:35
One Casing Volume(gal/L): 4.34								
Start Purge (hrs): 9:05								
End Purge (hrs): 9:35								
Total Purge Time (min): 30								
Total Vol. Purged (gal/L): 6L								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	✓
PAH (TIC)	none	1x1 liter amber	✓
TRPH	HCl	1x1 liter amber	✓
EDB	HCl	2x40ml	✓
Total As, Cd, Cr	HNO_3	1-500ml	✓
NO_3 + SO_4	-	1-125ml	✓
methane	HCl	2x40ml	✓
~~As, Cd, Cr~~	~~HNO_3~~		✓

OBSERVATIONS / NOTES:

CO_2 = 225 ppm.
DO = 0.15 ppm

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Gary Bragonje

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST -
Project No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: EG1-MW-10-050504
Sample Location: EG1-MW-10
Sampled By: GB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 5/20/04	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 15:25	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Method:	cloudy	6.83	21.9	28.30	46.2	0.00	1.33	-35.7

PURGE DATA: No purge data was collected for groundwater screening samples.

Date: 5/20/04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other Time
Method: Peristaltic/low flow	2000 ml	6.83	22.1	28.42	68.7	0.33	1.34	14:50
Monitor Reading (ppm): N/A	4000 ml	6.84	22.0	28.40	53.3	0.23	1.34	14:55
Well Casing Diameter & Material	6000 ml	6.85	22.0	28.40	41.9	0.11	1.34	15:00
Type: 2" PVC	8000 ml	6.85	22.0	28.34	43.6	0.04	1.33	15:05
Total Well Depth (TD): 11.65	10000 ml	6.84	22.0	28.32	43.9	0.00	1.33	15:10
Static Water Level (WL): 3.81	12000 ml	6.84	21.9	28.30	45.6	0.00	1.33	15:15
One Casing Volume(gal/L): 4.7	14000 ml	6.83	21.9	28.30	46.2	0.00	1.33	15:20
Start Purge (hrs): 14:40								
End Purge (hrs): 15:25								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	✓
TAL+1	none	2x 1 liter amber	✓
TRPH	HCl	2x 1 liter amber	✓
EDB	HCl	2x 40 ml	✓
Lead	HNO_3	250 ml	✓
$NO_3 + SO_4$	none	125 ml	✓
CH_4	HCl	2x 40 ml	✓

OBSERVATIONS / NOTES:

CO_2 = 160 ppm
DO = 0.2 ppm

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Gary Boyanga

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST - Geiger Key
Project No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: G01-MW-11-0504
Sample Location: G01-MW-11
Sampled By: GB
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 5/24/04								
Time: 9:15								ORP
Method: Peristaltic	Clear	6.91	10.8	28.01	0.4	0.33	0.61	-365

PURGE DATA: No purge data was collected for groundwater screening samples.

	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other Time
Date: 5/24/04								
Method: Peristaltic	2000ml	6.86	11.3	28.12	0	0.72	0.64	8:45
Monitor Reading (ppm): 0	1000ml	6.89	11.2	28.09	1.2	0.56	0.64	8:50
Well Casing Diameter & Material Type: 2" PVC	1000ml	6.90	11.0	28.07	35.0	0.48	0.62	8:55
Total Well Depth (TD): 12.05	1000ml	6.91	10.9	28.05	56.3	0.40	0.62	9:00
Static Water Level (WL): 4.53	1000ml	6.91	10.8	28.05	0.8	0.36	0.61	9:05
One Casing Volume(gal/L): 4.6L	1000ml	6.91	10.8	28.01	0.4	0.33	0.61	9:10
Start Purge (hrs): 8:35								0
End Purge (hrs): 9:10								
Total Purge Time (min): 35								
Total Vol. Purged (gal/L): 7L								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	✓
PAH's			✓
TRPH			✓
EDB			✓
Lead			✓
Nos+ SO_4			✓
CH_4			✓

OBSERVATIONS / NOTES:

CO_2 = 200 ppm
DO = 0.3 ppm

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Gary Bingham

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NAS KEY WEST -
Project No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: G01-MW-12-0504
Sample Location: G01-MW-12
Sampled By: BC
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

Date: 5/20/04	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Time: 1440								
Method: peri. pump	Clear	6.99	13.0	27.58	18.6	0.26	0.75	

PURGE DATA: No purge data was collected for groundwater screening samples.

Date: 5/20/04	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: peri. pump	INT	6.95	12.8	27.21	191.0	0.33	0.74	1310
Monitor Reading (ppm): 0.0	0.5	6.98	12.9	27.21	195.0	0.26	0.74	1320
Well Casing Diameter & Material Type: 2" PVC	1.5	6.99	13.0	27.17	141.0	0.25	0.75	1340
Total Well Depth (TD): 11.49	3.0	7.00	13.0	27.33	123.0	0.25	0.75	1355
Static Water Level (WL): 3.55	4.5	6.99	13.0	27.34	107.0	0.25	0.74	1410
One Casing Volume (gal/L): 1.27	5.5	6.99	13.0	27.39	112.0	0.26	0.75	1420
Start Purge (hrs): 1310	6.5	6.99	13.0	27.60	40.0	0.25	0.75	1430
End Purge (hrs): 1440	7.5	6.99	13.0	27.58	18.6	0.26	0.75	1440
Total Purge Time (min): 90								
Total Vol. Purged (gal/L): 7.5								

7.94
.16
1.27g

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
PPL VOHs, BTEX, MTBE	HCl	3x40mL	3
PAH	none	2x 1L amber	2
TRPH	HCl	2x 1L amber	2
EDB	HCl	2x 40mL glass	2
Lead	HNO_3	1x 250mL poly	1
Nitrate + Sulfate	none	1x 125mL poly	1
methane	HCl	2x 40mL glass	2

OBSERVATIONS / NOTES:

DO = Chemets K.+ K7501 / 0.5

H_2S odor

CO_2 = 105 ppm
Chemets K-1920 100-1000 ppm

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):

APPENDIX C

ANALYTICAL VALIDATION REPORTS

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **C. BRYAN** **DATE:** **JANUARY 6, 2004**

FROM: **BERNARD F SPADA III** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOC/SVOC/PAH/PEST/PCB/TPH**
CTO 318, NAS KEY WEST
SDG 3181

SAMPLES: 19/Aqueous

FC-MW-05-1103*	FC-MW-06-1103*	FC-MW-22-1103*
G01-GS-01-1103*	G01-GS-02-1103*	G01-GS-03-1103*
G01-GS-04-1103*	G01-GS-05-1103*	G01-GS-06-1103*
G01-GS-07-1103*	G01-GS-08-1103*	G01-GS-09-1103*
G01-GS-10-1103*	KWDUP-01-1103*	KW-RINS-01-1103
KWTB-111303*	TB111103*	B01-MW-01-1103
B01-MW-03-1103		

OVERVIEW

The sample set for CTO 318, NAS Key West, SDG 3181 consists of fifteen (15) environmental aqueous samples, one (1) rinse blank, one (1) field duplicate, and two (2) trip blanks. The samples denoted with an asterisk (*) were analyzed for priority pollutant VOCs, benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl-tert-butyl ether (MTBE). Sample KW-RINS-01-1103 was analyzed for TCL VOC, SVOC, and PEST/PCB. Samples FC-MW-05-1103, FC-MW-06-1103, FC-MW-22-1103, and KWDUP-01-1103 were analyzed for ethylene dibromide (EDB) and total petroleum hydrocarbon (TPH) subclassification. Samples B01-MW-01-1103, B01-MW-03-1103, FC-MW-05-1103, FC-MW-06-1103, FC-MW-22-1103, and KWDUP-01-1103 were analyzed for polynuclear aromatic hydrocarbons (PAH). Sample KWDUP-01-1103 was also analyzed for TPH. The field duplicate pair included in this SDG is KWDUP-01-1103 and FC-MW-06-1103.

The samples were collected by Tetra Tech NUS on November 11 and 13, 2003 and analyzed by Katahdin Analytical Services. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8260B, 8270C, 8081A, and 8082, EPA Method 504.1, and Florida PRO analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
• Holding times
* • Initial and continuing calibration
• Laboratory method and field quality control blank results
• Surrogate recoveries
• Matrix Spike recoveries
* • Field duplicate precision
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

The text of this report is formulated to address only gross non-compliances resulting in the rejection of data and the elimination of false positives.

Volatile

The continuing calibration performed on November 21 at 17:36 exceeded the 25% difference quality control criteria for chloromethane, bromomethane, 2-butanone, 4-methyl-2-pentanone, 2-hexanone, and acetone. No qualifications were made on this basis because all results for the aforementioned compounds were non-detected.

The continuing calibration performed on November 22 at 08:33 exceeded the 25% difference quality control criteria for chloromethane and bromomethane. No qualifications were made on this basis because all results for the aforementioned compounds were non-detected.

The following compounds were detected in the method blank:

Compound	Maximum Concentration	Blank Action Level
Chloroform	0.3 µg/L	1.5 µg/L
o-Xylene	0.1 µg/L	0.5 µg/L
m,p-Xylene	0.3 µg/L	1.5 µg/L
total-Xylene	0.4 µg/L	2.0 µg/L
Toluene[1]	3.0 µg/L	15 µg/L

1 – Detected in the trip blank

Sample aliquot and dilution factors were taken into consideration when applying the blank action levels. Positive results for the aforementioned compounds below the blank action level were qualified as non-detected, (U). Field quality control blanks were not qualified due to method blank contamination.

The blank spike (WG4601-LCS) exceeded the percent recovery quality control criteria for acetone and 2-butanone. No qualifications were made on this basis because the results for the aforementioned compounds were non-detected.

The blank spike (WG4738-LCS) exceeded the percent recovery quality control criteria for 2-butanone, 1,1-dichloroethene, and methylene chloride. No qualifications were made on this basis because the results for the aforementioned compounds were non-detected.

The blank spikes (WG4738-LCS and WG4777-LCS) were below the percent recovery quality control criteria for 2-chloroethylvinyl ether. All non-detected results for 2-chloroethylvinyl ether were qualified as estimated (UJ).

The blank spike (WG4754-LCS) exceeded the percent recovery quality control criteria for 2-butanone, acetone, and 2-hexanone. No qualifications were made on this basis because the results for the aforementioned compounds were non-detected.

The blank spike (WG4777-LCS) exceeded the percent recovery quality control criteria for 2-butanone and acetone. No qualifications were made on this basis because the results for the aforementioned compounds were non-detected.

The percent recovery of 2-chloroethylvinylether in the MS/MSD of sample FC-MW-22-1103 was 0%. The result for 2-chloroethylvinylether was rejected (UR) in sample FC-MW-22-1103.

The percent recovery of bromomethane in the MS/MSD of samples FC-MW-22-1103 was below the quality control criterion. No qualifications were made on this basis because the LCSs were compliant.

The percent recovery of ethylbenzene and 1,1,2-trichloroethane in the MS/MSD of sample FC-MW-22-1103 exceeded the quality control criteria. The positive result for ethylbenzene was qualified as estimated (J) in sample FC-MW-22-1103.

EDB

The surrogate tetrachloro-m-xylene exceeded the percent recovery quality control criteria on both columns in all samples. No qualifications were made on this basis because all results were non-detected.

The LCSD exceeded the percent recovery quality control criteria for EDB. The LCS/LCSD also exceeded the relative percent difference (RPD) quality control criteria for EDB. No qualifications were made on this basis because the LCS was compliant.

The percent recovery of EDB exceeded the quality control criteria in the MS/MSD of sample FC-MW-22-1103. No qualifications were made on this basis because all results for EDB were non-detected.

Semivolatile

The initial calibration performed on November 12 exceeded the 30% relative standard deviation (RSD) quality control criteria for 2,4-dinitrophenol and diethylphthalate. No qualifications were made on this basis because the results for the aforementioned compounds were non-detected.

The continuing calibrations performed on November 20 and 26 exceeded the 25% difference quality control criteria for diethylphthalate. No qualifications were made on this basis because the results for diethylphthalate were non-detected.

The percent recovery of surrogates 2-fluorophenol and nitrobenzene-d5 were <10% in sample KW-RINS-01-1103. The sample was re-extracted outside of holding time and re-analyzed. The percent recovery of 2-fluorophenol was <10% and the recovery of nitrobenzene-d5 was below the quality control criteria. The re-extracted sample was used for validation. All results in the acid fraction were rejected (UR) for surrogate recovery non-compliance and all results in the base/neutral fraction were qualified as estimated (UJ) due to holding time non-compliance.

The percent recoveries of 2-nitrophenol, 4,6-dinitro-2-methylphenol, and pentachlorophenol were below the quality control criteria in the blank spike duplicate (WG4553-LCSD). No qualifications were made on this basis because the blank spike was compliant.

The percent recovery of 3,3'-dichlorobenzidine exceeded the quality control criteria in the blank spike and blank spike duplicate (WG4553-LCS and WG4553-LCSD) and bis(2-ethylhexyl)phthalate exceeded the criteria in the blank spike. No qualifications were made on this basis because the results for the aforementioned compounds were non-detected.

The percent recovery of 2,4-dinitrophenol was below the quality control criteria in the blank spike (WG4766-LCS). No qualifications were made on this basis because the blank spike duplicate was compliant.

The percent recovery of 3,3'-dichlorobenzidine exceeded the quality control criteria in the blank spike and blank spike duplicate (WG4766-LCS and WG4766-LCSD). No qualifications were made on this basis because the result for 3,3'-dichlorobenzidine was non-detected.

PAH

The continuing calibration performed on November 17 at 11:58 exceeded the 25% difference quality control criteria for pyrene. No qualifications were made on this basis because all results for pyrene were non-detected.

The percent recovery of indeno(1,2,3-cd)pyrene was below the percent recovery quality control criterion in the MS/MSD of sample FC-MW-22-1103. The non-detected result for indeno(1,2,3-cd)pyrene was qualified as estimated (UJ) in sample FC-MW-22-1103.

The percent recoveries of benzo(a)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene were below the quality control criteria in the MSD of sample FC-MW-22-1103. No qualifications were made on this basis because the MS was compliant.

Sample FC-MW-22-1103 was analyzed at a 100X dilution because the concentration of target analytes exceeded the linear calibration range of the instrument. The sample was not analyzed un-diluted. This accounts for the elevated reporting limits for all non-detected results in sample FC-MW-22-1103.

All surrogates exhibited 0% recovery in sample FC-MW-22-1103. No qualifications were made on this basis because the sample was analyzed at a 100X dilution.

Pesticide

The continuing calibration performed on December 3 at 08:46 exceeded the 15% difference quality control criteria for gamma-BHC on the RTX-CLPI column. No qualifications were made on this basis because the result for gamma-BHC was non-detected.

The surrogate decachlorobiphenyl was below the percent recovery quality control criteria on both columns in sample KW-RINS-01-1103. The non-detected results were qualified as estimated (UJ) in sample KW-RINS-01-1103.

The blank spike was below the percent recovery quality control criteria for endosulfan I and endosulfan II. The non-detected results for the aforementioned compounds were qualified as estimated (UJ) in sample KW-RINS-01-1103.

PCB

The continuing calibration performed on December 1 at 13:37 exceeded the 15% difference quality control criteria for Aroclor 1260 on both columns. No qualifications were made on this basis because the result for Aroclor 1260 was non-detected.

TPH

The surrogate o-terphenyl was below the percent recovery quality control criteria in samples FC-MW-06-1103 and KWDUP-01-1103. No qualifications were made on this basis because all recoveries were at least 70% and the other surrogate was compliant.

The percent recovery of TPH exceeded the quality control criteria in the LCS/MS/MSD. The positive result for TPH was qualified as estimated (J) in sample FC-MW-22-1103.

The results in the EDD for TPH were reported in ug/L and the results for TPHCWG were reported in mg/L. The validator adjusted the TPH results to be reported as mg/L in the database.

Additional Comments

Positive results below the reporting limit were qualified as estimated (J) due to uncertainty near the detection limit.

Ethylbenzene was detected in the rinse blank. No qualifications were made on this basis.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Qualifications were made based on method blank contamination, blank spike non-compliances, and surrogate recovery non-compliances.

Other Factors Affecting Data Quality: Qualifications were made based on MS/MSD non-compliances.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines. The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Bernard F. Spada III

Tetra Tech NUS
Bernard F. Spada III
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	FC-MW-05-1103	nsample	FC-MW-05-1103	nsample	FC-MW-06-1103
samp_date	11/11/2003	samp_date	11/11/2003	samp_date	11/11/2003
lab_id	WT2841-4	lab_id	WT2841-4	lab_id	WT2841-1
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	A
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.2	J	P
M+P-XYLENES	2	U	A
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	3	U	B
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	FC-MW-06-1103
samp_date	11/11/2003
lab_id	WT2841-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

nsample	FC-MW-22-1103
samp_date	11/11/2003
lab_id	WT2841-6
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UR	D
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	A
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.5	J	DP
M+P-XYLENES	2	U	A
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	3	U	B
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

nsample	FC-MW-22-1103
samp_date	11/11/2003
lab_id	WT2841-6
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-01-1103	nsample	G01-GS-02-1103	nsample	G01-GS-03-1103
samp_date	11/13/2003	samp_date	11/13/2003	samp_date	11/13/2003
lab_id	WT2879-1	lab_id	WT2879-2	lab_id	WT2879-3
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	A
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	A
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	3	U	A
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	A
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	A
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	A
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

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SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-04-1103	nsample	G01-GS-05-1103	nsample	G01-GS-06-1103
samp_date	11/13/2003	samp_date	11/13/2003	samp_date	11/13/2003
lab_id	WT2879-4	lab_id	WT2879-5	lab_id	WT2879-6
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.7	J	P
M+P-XYLENES	2	U	A
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	A
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	A
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	2		
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	6		
M+P-XYLENES	2	U	A
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	3	U	A
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	0.3	J	P
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	2		
M+P-XYLENES	2	U	A
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	A
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	3	U	A
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

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SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-07-1103	nsample	G01-GS-08-1103	nsample	G01-GS-09-1103
samp_date	11/13/2003	samp_date	11/13/2003	samp_date	11/13/2003
lab_id	WT2879-7	lab_id	WT2879-8	lab_id	WT2879-9
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code	Parameter	Result	Val Qual	Qual Code	Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U		1,1,1-TRICHLOROETHANE	1	U		1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1,1,2,2-TETRACHLOROETHANE	1	U		1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U		1,1,2-TRICHLOROETHANE	1	U		1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U		1,1-DICHLOROETHANE	1	U		1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U		1,1-DICHLOROETHENE	1	U		1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U		1,2-DICHLOROETHANE	1	U		1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U		1,2-DICHLOROPROPANE	1	U		1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E	2-CHLOROETHYL VINYL ETHER	1	UJ	E	2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U		BENZENE	1	U		BENZENE	5		
BROMODICHLOROMETHANE	1	U		BROMODICHLOROMETHANE	1	U		BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U		BROMOFORM	1	U		BROMOFORM	1	U	
BROMOMETHANE	2	U		BROMOMETHANE	2	U		BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U		CARBON TETRACHLORIDE	1	U		CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U		CHLOROBENZENE	1	U		CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U		CHLORODIBROMOMETHANE	1	U		CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U		CHLOROETHANE	2	U		CHLOROETHANE	2	U	
CHLOROFORM	1	U		CHLOROFORM	1	U		CHLOROFORM	1	U	
CHLOROMETHANE	2	U		CHLOROMETHANE	2	U		CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U		CIS-1,2-DICHLOROETHENE	1	U		CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U		CIS-1,3-DICHLOROPROPENE	1	U		CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.3	J	P	ETHYLBENZENE	0.2	J	P	ETHYLBENZENE	26		
M+P-XYLENES	2	U	A	M+P-XYLENES	2	U	A	M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U		METHYL TERT-BUTYL ETHER	2	U		METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U		METHYLENE CHLORIDE	2	U		METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U		O-XYLENE	1	U		O-XYLENE	1	U	
TETRACHLOROETHENE	1	U		TETRACHLOROETHENE	1	U		TETRACHLOROETHENE	1	U	
TOLUENE	1	U		TOLUENE	1	U		TOLUENE	1	U	B
TOTAL XYLENES	3	U		TOTAL XYLENES	3	U		TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U		TRANS-1,2-DICHLOROETHENE	1	U		TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U		TRANS-1,3-DICHLOROPROPENE	1	U		TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U		TRICHLOROETHENE	1	U		TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U		VINYL CHLORIDE	2	U		VINYL CHLORIDE	2	U	

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SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-10-1103	nsample	KWDUP-01-1103	nsample	KWDUP-01-1103
samp_date	11/13/2003	samp_date	11/11/2003	samp_date	11/11/2003
lab_id	WT2879-10	lab_id	WT2841-2	lab_id	WT2841-2
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	FC-MW06-1103	DUP_OF:	FC-MW06-1103

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	11		
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	0.6	J	P
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	21		
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	KW-RINS-01-1103	nsample	KW-RINS-01-1103	nsample	KWTB-111303
samp_date	11/11/2003	samp_date	11/11/2003	samp_date	11/6/2003
lab_id	WT2841-5	lab_id	WT2841-5	lab_id	WT2879-11
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	44		
M+P-XYLENES	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	0.7	J	P
TOTAL 1,2-DICHLOROETHENE	2	U	

Parameter	Result	Val Qual	Qual Code
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	TB111103
samp_date	11/11/2003
lab_id	WT2841-8RA
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	0.3	J	P
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.2	J	P
M+P-XYLENES	0.3	J	P
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	3		
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OS

nsample	KW-RINS-01-1103	nsample	KW-RINS-01-1103
samp_date	11/11/2003	samp_date	11/11/2003
lab_id	WT2841-5	lab_id	WT2841-5
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	10	UJ	H
1,2-DICHLOROBENZENE	10	UJ	H
1,3-DICHLOROBENZENE	10	UJ	H
1,4-DICHLOROBENZENE	10	UJ	H
2,2'-OXYBIS(1-CHLOROPROPANE)	10	UJ	H
2,4,5-TRICHLOROPHENOL	25	UR	R
2,4,6-TRICHLOROPHENOL	10	UR	R
2,4-DICHLOROPHENOL	10	UR	R
2,4-DIMETHYLPHENOL	10	UR	R
2,4-DINITROPHENOL	25	UR	R
2,4-DINITROTOLUENE	10	UJ	H
2,6-DINITROTOLUENE	10	UJ	H
2-CHLORONAPHTHALENE	10	UJ	H
2-CHLOROPHENOL	10	UR	R
2-METHYLNAPHTHALENE	10	UJ	H
2-METHYLPHENOL	10	UR	R
2-NITROANILINE	25	UJ	H
2-NITROPHENOL	10	UR	R
3,3'-DICHLOROBENZIDINE	10	UJ	H
3-NITROANILINE	25	UJ	H
4,6-DINITRO-2-METHYLPHENOL	25	UR	R
4-BROMOPHENYL PHENYL ETHER	10	UJ	H
4-CHLORO-3-METHYLPHENOL	10	UR	R
4-CHLOROANILINE	10	UJ	H
4-CHLOROPHENYL PHENYL ETHER	10	UJ	H
4-METHYLPHENOL	10	UR	R
4-NITROANILINE	25	UJ	H
4-NITROPHENOL	25	UR	R
ACENAPHTHENE	10	UJ	H
ACENAPHTHYLENE	10	UJ	H
ANTHRACENE	10	UJ	H
BENZO(A)ANTHRACENE	10	UJ	H

Parameter	Result	Val Qual	Qual Code
BENZO(A)PYRENE	10	UJ	H
BENZO(B)FLUORANTHENE	10	UJ	H
BENZO(G,H,I)PERYLENE	10	UJ	H
BENZO(K)FLUORANTHENE	10	UJ	H
BIS(2-CHLOROETHOXY)METHANE	10	UJ	H
BIS(2-CHLOROETHYL)ETHER	10	UJ	H
BIS(2-ETHYLHEXYL)PHTHALATE	10	UJ	H
BUTYL BENZYL PHTHALATE	10	UJ	H
CARBAZOLE	10	UJ	H
CHRYSENE	10	UJ	H
DIBENZO(A,H)ANTHRACENE	10	UJ	H
DIBENZOFURAN	10	UJ	H
DIETHYL PHTHALATE	10	UJ	H
DIMETHYL PHTHALATE	10	UJ	H
DI-N-BUTYL PHTHALATE	10	UJ	H
DI-N-OCTYL PHTHALATE	10	UJ	H
FLUORANTHENE	10	UJ	H
FLUORENE	10	UJ	H
HEXACHLOROBENZENE	10	UJ	H
HEXACHLOROBUTADIENE	10	UJ	H
HEXACHLOROCYCLOPENTADIENE	10	UJ	H
HEXACHLOROETHANE	10	UJ	H
INDENO(1,2,3-CD)PYRENE	10	UJ	H
ISOPHORONE	10	UJ	H
NAPHTHALENE	10	UJ	H
NITROBENZENE	10	UJ	H
N-NITROSO-DI-N-PROPYLAMINE	10	UJ	H
N-NITROSODIPHENYLAMINE	10	UJ	H
PENTACHLOROPHENOL	25	UR	R
PHENANTHRENE	10	UJ	H
PHENOL	10	UR	R
PYRENE	10	UJ	H

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: PAH

nsample	B01-MW-01-1103	nsample	B01-MW-03-1103	nsample	FC-MW-05-1103
samp_date	11/11/2003	samp_date	11/11/2003	samp_date	11/11/2003
lab_id	WT2841-7	lab_id	WT2841-3	lab_id	WT2841-4
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.084	J	P
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.08	J	P
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: PAH

nsample	FC-MW-06-1103	nsample	FC-MW-22-1103	nsample	KWDUP-01-1103
samp_date	11/11/2003	samp_date	11/11/2003	samp_date	11/11/2003
lab_id	WT2841-1	lab_id	WT2841-6DL	lab_id	WT2841-2
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	100.0	Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	FC-MW-06-1103

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.088	J	P
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.085	J	P
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	27		
2-METHYLNAPHTHALENE	59		
ACENAPHTHENE	19	U	
ACENAPHTHYLENE	19	U	
ANTHRACENE	19	U	
BENZO(A)ANTHRACENE	19	U	
BENZO(A)PYRENE	19	U	
BENZO(B)FLUORANTHENE	19	U	
BENZO(G,H,I)PERYLENE	19	U	
BENZO(K)FLUORANTHENE	19	U	
CHRYSENE	19	U	
DIBENZO(A,H)ANTHRACENE	19	U	
FLUORANTHENE	19	U	
FLUORENE	19	U	
INDENO(1,2,3-CD)PYRENE	19	UJ	D
NAPHTHALENE	190		
PHENANTHRENE	19	U	
PYRENE	19	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: PEST/PCB

nsample	KW-RINS-01-1103
samp_date	11/11/2003
lab_id	WT2841-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.1	UJ	R
4,4'-DDE	0.1	UJ	R
4,4'-DDT	0.1	UJ	R
ALDRIN	0.05	UJ	R
ALPHA-BHC	0.05	UJ	R
ALPHA-CHLORDANE	0.05	UJ	R
AROCLOR-1016	0.5	U	
AROCLOR-1221	0.5	U	
AROCLOR-1232	0.5	U	
AROCLOR-1242	0.5	U	
AROCLOR-1248	0.5	U	
AROCLOR-1254	0.5	U	
AROCLOR-1260	0.5	U	
BETA-BHC	0.05	UJ	R
DELTA-BHC	0.05	UJ	R
DIELDRIN	0.1	UJ	R
ENDOSULFAN I	0.05	UJ	ER
ENDOSULFAN II	0.1	UJ	ER
ENDOSULFAN SULFATE	0.1	UJ	R
ENDRIN	0.1	UJ	R
ENDRIN ALDEHYDE	0.1	UJ	R
ENDRIN KETONE	0.1	UJ	R
GAMMA-BHC (LINDANE)	0.05	UJ	R
GAMMA-CHLORDANE	0.05	UJ	R
HEPTACHLOR	0.05	UJ	R
HEPTACHLOR EPOXIDE	0.05	UJ	R
METHOXYCHLOR	0.5	UJ	R
TOXAPHENE	1	UJ	R

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: PET

nsample	FC-MW-05-1103	nsample	FC-MW-06-1103	nsample	FC-MW-22-1103
samp_date	11/11/2003	samp_date	11/11/2003	samp_date	11/11/2003
lab_id	C311437*3	lab_id	C311437*1	lab_id	C311437*4
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
C10-C12 ALIPHATICS	5	U	
C10-C12 AROMATICS	5	U	
C12-C16 ALIPHATICS	5	U	
C12-C16 AROMATICS	5	U	
C16-C21 AROMATICS	5	U	
C16-C35 ALIPHATICS	5	U	
C21-C35 AROMATICS	5	U	
C5-C6 ALIPHATICS	5	U	
C5-C7 AROMATICS	5	U	
C6-C8 ALIPHATICS	5	U	
C7-C8 AROMATICS	5	U	
C8-C10 ALIPHATICS	5	U	
C8-C10 AROMATICS	5	U	
TOTAL PETROLEUM HYDROCARBONS	0.5	U	

Parameter	Result	Val Qual	Qual Code
C10-C12 ALIPHATICS	5	U	
C10-C12 AROMATICS	5	U	
C12-C16 ALIPHATICS	5	U	
C12-C16 AROMATICS	5	U	
C16-C21 AROMATICS	5	U	
C16-C35 ALIPHATICS	5	U	
C21-C35 AROMATICS	5	U	
C5-C6 ALIPHATICS	5	U	
C5-C7 AROMATICS	5	U	
C6-C8 ALIPHATICS	5	U	
C7-C8 AROMATICS	5	U	
C8-C10 ALIPHATICS	5	U	
C8-C10 AROMATICS	5	U	
TOTAL PETROLEUM HYDROCARBONS	0.5	U	

Parameter	Result	Val Qual	Qual Code
C10-C12 ALIPHATICS	5	U	
C10-C12 AROMATICS	5	U	
C12-C16 ALIPHATICS	5	U	
C12-C16 AROMATICS	5	U	
C16-C21 AROMATICS	5	U	
C16-C35 ALIPHATICS	5	U	
C21-C35 AROMATICS	5	U	
C5-C6 ALIPHATICS	5	U	
C5-C7 AROMATICS	5	U	
C6-C8 ALIPHATICS	5	U	
C7-C8 AROMATICS	5	U	
C8-C10 ALIPHATICS	5	U	
C8-C10 AROMATICS	5	U	
TOTAL PETROLEUM HYDROCARBONS	3.1		

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: PET

nsample	KW-DUP-01-1103
samp_date	11/11/2003
lab_id	C311437*2
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	FC-MW-06-1103

Parameter	Result	Val Qual	Qual Code
C10-C12 ALIPHATICS	5	U	
C10-C12 AROMATICS	5	U	
C12-C16 ALIPHATICS	5	U	
C12-C16 AROMATICS	5	U	
C16-C21 AROMATICS	5	U	
C16-C35 ALIPHATICS	5	U	
C21-C35 AROMATICS	5	U	
C5-C6 ALIPHATICS	5	U	
C5-C7 AROMATICS	5	U	
C6-C8 ALIPHATICS	5	U	
C7-C8 AROMATICS	5	U	
C8-C10 ALIPHATICS	5	U	
C8-C10 AROMATICS	5	U	

nsample	KWDUP-01-1103
samp_date	11/11/2003
lab_id	WT2841-2
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	FC-MW-06-1103

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	0.5	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-4
Client ID: FC-MW-05-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	J	0.3	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene		3	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.2	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	J	0.2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		100%				
17060-07-0	1,2-Dichloroethane-D4		98%				
2037-26-5	Toluene-D8		91%				
460-00-4	P-Bromofluorobenzene		90%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/24/03
Analysis Date: 11/25/03
Report Date: 11/26/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-4
Client ID: FC-MW-05-1103
SDG: CTO318-1
Extracted by: LRS
Extraction Method: 504.1
Analyst: LRS
Analysis Method: EPA 504.1
Lab Prep Batch: WG4775
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		*133%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-1
Client ID: FC-MW-06-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		103%				
17060-07-0	1,2-Dichloroethane-D4		99%				
2037-26-5	Toluene-D8		99%				
460-00-4	P-Bromofluorobenzene		97%				

Katahdin Analytical Services 1000042

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/24/03
Analysis Date: 11/25/03
Report Date: 11/26/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-1
Client ID: FC-MW-06-1103
SDG: CTO318-1
Extracted by: LRS
Extraction Method: 504.1
Analyst: LRS
Analysis Method: EPA 504.1
Lab Prep Batch: WG4775
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		*160%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-6
Client ID: FC-MW-22-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	J	0.4	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene		3	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.5	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	J	0.3	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		99%				
17060-07-0	1,2-Dichloroethane-D4		101%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/24/03
Analysis Date: 11/25/03
Report Date: 11/26/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-6
Client ID: FC-MW-22-1103
SDG: CTO318-1
Extracted by: LRS
Extraction Method: 504.1
Analyst: LRS
Analysis Method: EPA 504.1
Lab Prep Batch: WG4775
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		*162%				

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-1
Client ID: G01-GS-01-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.2	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	JB	0.6	1.0	3	3	0.3
	m+p-Xylenes	JB	0.4	1.0	2	2	0.2
95-47-6	o-Xylene	JB	0.2	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		92%				
17060-07-0	1,2-Dichloroethane-D4		92%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		90%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-2
Client ID: G01-GS-02-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	JB	0.3	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		94%				
17060-07-0	1,2-Dichloroethane-D4		98%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		93%				

Katahdin Analytical Services 1000049

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-3
Client ID: G01-GS-03-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	JB	0.4	1.0	3	3	0.3
	m+p-Xylenes	JB	0.4	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		93%				
17060-07-0	1,2-Dichloroethane-D4		94%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		91%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-4
Client ID: G01-GS-04-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.7	1.0	1	1	0.1
1330-20-7	Xylenes (total)	JB	0.5	1.0	3	3	0.3
	m+p-Xylenes	JB	0.4	1.0	2	2	0.2
95-47-6	o-Xylene	JB	0.2	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		94%				
17060-07-0	1,2-Dichloroethane-D4		95%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-5
Client ID: G01-GS-05-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.[illegible]
71-43-2	Benzene		2	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.[illegible]
79-01-6	Trichloroethene	U	1	1.0	1	1	0.[illegible]
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.[illegible]
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.3	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		6	1.0	1	1	0.1
1330-20-7	Xylenes (total)	JB	0.4	1.0	3	3	0.3
	m+p-Xylenes	JB	0.4	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.[illegible]
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		93%				
17060-07-0	1,2-Dichloroethane-D4		98%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		93%				

Katahdin Analytical Services 1000052

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-6
Client ID: G01-GS-06-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	J	0.3	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	[illegible]
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.3	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		2	1.0	1	1	0.1
1330-20-7	Xylenes (total)	JB	0.9	1.0	3	3	0.3
	m+p-Xylenes	JB	0.6	1.0	2	2	0.2
95-47-6	o-Xylene	JB	0.3	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		94%				
17060-07-0	1,2-Dichloroethane-D4		94%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		92%				

Katahdin Analytical Services 1000053

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-7
Client ID: G01-GS-07-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.3	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	JB	0.3	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		94%				
17060-07-0	1,2-Dichloroethane-D4		96%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-8
Client ID: G01-GS-08-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.[illegible]
79-01-6	Trichloroethene	U	1	1.0	1	1	0.[illegible]
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.[illegible]
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.2	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	JB	0.2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		96%				
17060-07-0	1,2-Dichloroethane-D4		94%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-9
Client ID: G01-GS-09-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene		5	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.5
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.4
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.3	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		26	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		94%				
17060-07-0	1,2-Dichloroethane-D4		94%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		94%				

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-10
Client ID: G01-GS-10-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	J	0.6	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene		11	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.3	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		21	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		95%				
17060-07-0	1,2-Dichloroethane-D4		97%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-2
Client ID: KWDUP-01-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.1
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		100%				
17060-07-0	1,2-Dichloroethane-D4		104%				
2037-26-5	Toluene-D8		98%				
460-00-4	P-Bromofluorobenzene		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/24/03
Analysis Date: 11/25/03
Report Date: 11/26/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-2
Client ID: KWDUP-01-1103
SDG: CTO318-1
Extracted by: LRS
Extraction Method: 504.1
Analyst: LRS
Analysis Method: EPA 504.1
Lab Prep Batch: WG4775
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		*169%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-5
Client ID: KW-RINS-01-1103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
67-64-1	Acetone	U	5	1.0	5	5	3
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
67-66-3	Chloroform	U	1	1.0	1	1	0.2
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
75-25-2	Bromoform	U	1	1.0	1	1	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
108-88-3	Toluene	J	0.7	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	1
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		44	1.0	1	1	0.1
100-42-5	Styrene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
1868-53-7	Dibromofluoromethane		100%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		98%				
460-00-4	P-Bromofluorobenzene		97%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/06/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2879-11
Client ID: KWTB-111303
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.4
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		93%				
17060-07-0	1,2-Dichloroethane-D4		93%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-8RA
Client ID: TB111103
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4754
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	J	0.3	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene		3	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.2	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	J	0.3	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		97%				
17060-07-0	1,2-Dichloroethane-D4		94%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		92%				

Katahdin Analytical Services 1000047

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/15/03
Analysis Date: 11/20/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-5
Client ID: KW-RINS-01-1103
SDG: CTO318-1
Extracted by: NB
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG4553
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	10	1.0	10	10	2
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	1
95-57-8	2-Chlorophenol	U	10	1.0	10	10	2
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	0.6
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	0.8
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	0.7
95-48-7	2-Methylphenol	U	10	1.0	10	10	1
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	10	1.0	10	10	1
106-44-5	4-Methylphenol	U	10	1.0	10	10	2
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	2
67-72-1	Hexachloroethane	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	1
78-59-1	Isophorone	U	10	1.0	10	10	0.8
88-75-5	2-Nitrophenol	U	10	1.0	10	10	2
105-67-9	2,4-Dimethylphenol	U	10	1.0	10	10	2
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	0.8
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	0.9
91-20-3	Naphthalene	U	10	1.0	10	10	0.9
106-47-8	4-Chloroaniline	U	10	1.0	10	10	1
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	2
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	1
91-57-6	2-Methylnaphthalene	U	10	1.0	10	10	1
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	1
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	2
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	2
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	0.8
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	0.8
208-96-8	Acenaphthylene	U	10	1.0	10	10	
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	
99-09-2	3-Nitroaniline	U	25	1.0	25	25	2
83-32-9	Acenaphthene	U	10	1.0	10	10	1
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
100-02-7	4-Nitrophenol	U	25	1.0	25	25	3
132-64-9	Dibenzofuran	U	10	1.0	10	10	1.0
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	0.7
84-66-2	Diethylphthalate	U	10	1.0	10	10	0.6
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	1
86-73-7	Fluorene	U	10	1.0	10	10	0.8
100-01-6	4-Nitroaniline	U	25	1.0	25	25	2
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	7
86-30-6	N-Nitrosodiphenylamine	U	10	1.0	10	10	2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/15/03
Analysis Date: 11/20/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-5
Client ID: KW-RINS-01-1103
SDG: CTO318-1
Extracted by: NB
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG4553
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	1
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	0.7
87-86-5	Pentachlorophenol	U	25	1.0	25	25	5
85-01-8	Phenanthrene	U	10	1.0	10	10	0.8
120-12-7	Anthracene	U	10	1.0	10	10	0.6
86-74-8	Carbazole	U	10	1.0	10	10	0.8
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	0.7
129-00-0	Pyrene	U	10	1.0	10	10	0.8
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	0.8
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	2
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	0.6
218-01-9	Chrysene	U	10	1.0	10	10	0.5
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	9
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	1
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	1.3
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	0.7
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	0.8
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	0.7
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	0.7
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	0.9
367-12-4	2-Fluorophenol		* 7%				
13127-88-3	Phenol-D6		39%				
4165-60-0	Nitrobenzene-D5		* 0%				
321-60-8	2-Fluorobiphenyl		83%				
118-79-6	2,4,6-Tribromophenol		31%				
1718-51-0	Terphenyl-D14		126%				

Katahdin Analytical Services 2000024

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/24/03
Analysis Date: 11/26/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-5RE
Client ID: KW-RINS-01-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG4766
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	10	1.0	10	10	2
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	1
95-57-8	2-Chlorophenol	U	10	1.0	10	10	2
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	0.6
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	0.8
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	0.7
95-48-7	2-Methylphenol	U	10	1.0	10	10	1
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	10	1.0	10	10	1
106-44-5	4-Methylphenol	U	10	1.0	10	10	2
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	2
67-72-1	Hexachloroethane	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	1
78-59-1	Isophorone	U	10	1.0	10	10	0.8
88-75-5	2-Nitrophenol	U	10	1.0	10	10	2
105-67-9	2,4-Dimethylphenol	U	10	1.0	10	10	2
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	0.9
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	2
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	0.9
91-20-3	Naphthalene	U	10	1.0	10	10	0.9
106-47-8	4-Chloroaniline	U	10	1.0	10	10	1
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	2
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	1
91-57-6	2-Methylnaphthalene	U	10	1.0	10	10	1
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	1
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	2
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	2
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	0.8
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	0.8
208-96-8	Acenaphthylene	U	10	1.0	10	10	0.7
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	2
99-09-2	3-Nitroaniline	U	25	1.0	25	25	2
83-32-9	Acenaphthene	U	10	1.0	10	10	1
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
100-02-7	4-Nitrophenol	U	25	1.0	25	25	3
132-64-9	Dibenzofuran	U	10	1.0	10	10	1.0
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	0.7
84-66-2	Diethylphthalate	U	10	1.0	10	10	0.6
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	1
86-73-7	Fluorene	U	10	1.0	10	10	0.8
100-01-6	4-Nitroaniline	U	25	1.0	25	25	2
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	7
86-30-6	N-Nitrosodiphenylamine	U	10	1.0	10	10	2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/24/03
Analysis Date: 11/26/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-SRE
Client ID: KW-RINS-01-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG4766
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	1
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	0.7
87-86-5	Pentachlorophenol	U	25	1.0	25	25	5
85-01-8	Phenanthrene	U	10	1.0	10	10	0.8
120-12-7	Anthracene	U	10	1.0	10	10	0.6
86-74-8	Carbazole	U	10	1.0	10	10	0.8
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	0.7
129-00-0	Pyrene	U	10	1.0	10	10	0.8
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	0.8
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	2
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	0.6
218-01-9	Chrysene	U	10	1.0	10	10	0.5
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	9
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	1
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	1.[illegible]
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	[illegible]
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	0.8
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	0.7
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	0.7
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	0.9
367-12-4	2-Fluorophenol		* 1%				
13127-88-3	Phenol-D6		14%				
4165-60-0	Nitrobenzene-D5		* 18%				
321-60-8	2-Fluorobiphenyl		93%				
118-79-6	2,4,6-Tribromophenol		38%				
1718-51-0	Terphenyl-D14		104%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-7
Client ID: B01-MW-01-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4498
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	J	0.080	1.0	0.20	0.20	0.047
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.047
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.075
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.075
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.075
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.085
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.066
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.085
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.075
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.085
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.094
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	[illegible]
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	[illegible]
90-12-0	1-Methylnaphthalene	J	0.084	1.0	0.20	0.20	[illegible]
7297-45-2	2-Methylnaphthalene-d10		70%				
81103-79-9	Fluorene-d10		66%				
1718-52-1	Pyrene-d10		74%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-3
Client ID: B01-MW-03-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4498
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.080
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.090
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.1[illegible]
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.[illegible]
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.[illegible]
7297-45-2	2-Methylnaphthalene-d10		68%				
81103-79-9	Fluorene-d10		52%				
1718-52-1	Pyrene-d10		75%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-4
Client ID: FC-MW-05-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4498
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.047
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.047
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.075
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.075
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.075
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.085
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.066
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.085
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.075
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.085
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.094
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	[illegible]
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	[illegible]
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	[illegible]
7297-45-2	2-Methylnaphthalene-d10		70%				
81103-79-9	Fluorene-d10		55%				
1718-52-1	Pyrene-d10		75%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-1
Client ID: FC-MW-06-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4498
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	J	0.085	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.080
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.090
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.[illegible]
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.0[illegible]
90-12-0	1-Methylnaphthalene	J	0.088	1.0	0.20	0.20	0.08[illegible]
7297-45-2	2-Methylnaphthalene-d10		66%				
81103-79-9	Fluorene-d10		57%				
1718-52-1	Pyrene-d10		88%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/19/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-6DL
Client ID: FC-MW-22-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4498
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		190	100	0.20	19	4.8
91-57-6	2-Methylnaphthalene		59	100	0.20	19	7.6
208-96-8	Acenaphthylene	U	19	100	0.20	19	4.8
83-32-9	Acenaphthene	U	19	100	0.20	19	7.6
86-73-7	Fluorene	U	19	100	0.20	19	5.7
85-01-8	Phenanthrene	U	19	100	0.20	19	7.6
120-12-7	Anthracene	U	19	100	0.20	19	7.6
206-44-0	Fluoranthene	U	19	100	0.20	19	10
129-00-0	Pyrene	U	19	100	0.20	19	8.6
56-55-3	Benzo(a)anthracene	U	19	100	0.20	19	11
218-01-9	Chrysene	U	19	100	0.20	19	6.7
205-99-2	Benzo(b)fluoranthene	U	19	100	0.20	19	8.6
207-08-9	Benzo(k)fluoranthene	U	19	100	0.20	19	7.6
50-32-8	Benzo(a)pyrene	U	19	100	0.20	19	8.6
193-39-5	Indeno(1,2,3-cd)pyrene	U	19	100	0.20	19	9.5
53-70-3	Dibenzo(a,h)anthracene	U	19	100	0.20	19	14
191-24-2	Benzo(g,h,i)perylene	U	19	100	0.20	19	7.3
90-12-0	1-Methylnaphthalene		27	100	0.20	19	7.6
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-2
Client ID: KWDUP-01-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4498
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.080
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.090
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.1[illegible]
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.09[illegible]
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
7297-45-2	2-Methylnaphthalene-d10		80%				
81103-79-9	Fluorene-d10		69%				
1718-52-1	Pyrene-d10		72%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/12/03
Analysis Date: 12/03/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-5
Client ID: KW-RINS-01-1103
SDG: CTO318-1
Extracted by: NB
Extraction Method: SW846 3520
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG4477
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	0.050	1.0	0.050	0.050	0.024
58-89-9	gamma BHC	U	0.050	1.0	0.050	0.050	0.021
76-44-8	Heptachlor	U	0.050	1.0	0.050	0.050	0.023
319-85-7	beta-BHC	U	0.050	1.0	0.050	0.050	0.040
309-00-2	Aldrin	U	0.050	1.0	0.050	0.050	0.021
319-86-8	delta-BHC	U	0.050	1.0	0.050	0.050	0.028
1024-57-3	Heptachlor Epoxide	U	0.050	1.0	0.050	0.050	0.022
959-98-8	Endosulfan I	U	0.050	1.0	0.050	0.050	0.017
72-55-9	4,4'-DDE	U	0.10	1.0	0.10	0.10	0.027
60-57-1	Dieldrin	U	0.10	1.0	0.10	0.10	0.016
72-20-8	Endrin	U	0.10	1.0	0.10	0.10	0.017
72-54-8	4,4'-DDD	U	0.10	1.0	0.10	0.10	0.027
33213-65-9	Endosulfan II	U	0.10	1.0	0.10	0.10	0.015
50-29-3	4,4'-DDT	U	0.10	1.0	0.10	0.10	0.028
7421-36-3	Endrin Aldehyde	U	0.10	1.0	0.10	0.10	0.02[illegible]
1031-07-8	Endosulfan sulfate	U	0.10	1.0	0.10	0.10	0.0[illegible]
72-43-5	Methoxychlor	U	0.50	1.0	0.50	0.50	0.[illegible]
8001-35-2	Toxaphene	U	1.0	1.0	1.0	1.0	0.88
5103-71-9	alpha-Chlordane	U	0.050	1.0	0.050	0.050	0.018
5103-74-2	gamma-Chlordane	U	0.050	1.0	0.050	0.050	0.018
53494-70-5	Endrin Ketone	U	0.10	1.0	0.10	0.10	0.019
877-09-8	Tetrachloro-m-Xylene		70%				
2051-24-3	Decachlorobiphenyl		38%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/12/03
Analysis Date: 12/02/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-5
Client ID: KW-RINS-01-1103
SDG: CTO318-1
Extracted by: NB
Extraction Method: SW846 3520
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG4487
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	0.50	1.0	0.50	0.50	0.11
11104-28-2	Aroclor-1221	U	0.50	1.0	0.50	0.50	0.28
11141-16-5	Aroclor-1232	U	0.50	1.0	0.50	0.50	0.30
53469-21-9	Aroclor-1242	U	0.50	1.0	0.50	0.50	0.24
12672-29-6	Aroclor-1248	U	0.50	1.0	0.50	0.50	0.12
11097-69-1	Aroclor-1254	U	0.50	1.0	0.50	0.50	0.15
11096-82-5	Aroclor-1260	U	0.50	1.0	0.50	0.50	0.11
877-09-8	Tetrachloro-m-xylene		77%				
2051-24-3	Decachlorobiphenyl		* 37%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/19/03
Report Date: 11/26/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-4
Client ID: FC-MW-05-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4497
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		116%				
	O-Terphenyl		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/19/03
Report Date: 11/26/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-1
Client ID: FC-MW-06-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4497
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		88%				
	O-Terphenyl		* 72%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/19/03
Report Date: 11/26/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-6
Client ID: FC-MW-22-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4497
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		3100	1.0	500	500	270
	n-Triacontane-D62		158%				
	O-Terphenyl		121%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/19/03
Report Date: 11/26/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2841-2
Client ID: KWDUP-01-1103
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4497
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		87%				
	O-Terphenyl		* 70%				

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
11437-1	FC-MW-06-1103	Liquid	11/14/03	11/11/03 11:50	
11437-2	KW-DUP-01-1103	Liquid	11/14/03	11/11/03	
11437-3	FC-MW-05-1103	Liquid	11/14/03	11/11/03 14:15	
11437-4	FC-MW-22-1103	Liquid	11/14/03	11/11/03 11:35	

Parameter	Units	Lab Sample IDs 11437-1	11437-2	11437-3	11437-4
TPH-WG-ALI (TPHCWG)					
C5-C6 Aliphatics	mg/l	<5.0	<5.0	<5.0	<5.0
>/= C6-C8 Aliphatics	mg/l	<5.0	<5.0	<5.0	<5.0
>C8-C10 Aliphatics	mg/l	<5.0	<5.0	<5.0	<5.0
>C10-C12 Aliphatics	mg/l	<5.0	<5.0	<5.0	<5.0
>C12-C16 Aliphatics	mg/l	<5.0	<5.0	<5.0	<5.0
>C16-C35 Aliphatics	mg/l	<5.0	<5.0	<5.0	<5.0
Dilution Factor		1	1	1	1
Prep Date		11/17/03	11/17/03	11/17/03	11/17/03
Analysis Date		11/18/03	11/18/03	11/18/03	11/18/03
Batch ID		GEW042	GEW042	GEW042	GEW042
Prep Method		TPHCWG	TPHCWG	TPHCWG	TPHCWG
Analyst		IE	IE	IE	IE
Quantitation Factor		1.0	1.0	1.0	1.0
TPH-WG-ARO (TPHCWG)					
>C5-C7 Aromatics	mg/l	<5.0	<5.0	<5.0	<5.0
>C7-C8 Aromatics	mg/l	<5.0	<5.0	<5.0	<5.0
>C8-C10 Aromatics	mg/l	<5.0	<5.0	<5.0	<5.0
>C10-C12 Aromatics	mg/l	<5.0	<5.0	<5.0	<5.0
>C12-C16 Aromatics	mg/l	<5.0	<5.0	<5.0	<5.0
>C16-C21 Aromatics	mg/l	<5.0	<5.0	<5.0	<5.0
>C21-C35 Aromatics	mg/l	<5.0	<5.0	<5.0	<5.0
Dilution Factor		1	1	1	1
Prep Date		11/17/03	11/17/03	11/17/03	11/17/03
Analysis Date		11/18/03	11/18/03	11/18/03	11/18/03
Batch ID		GEW042	GEW042	GEW042	GEW042
Prep Method		TPHCWG	TPHCWG	TPHCWG	TPHCWG
Analyst		IE	IE	IE	IE
Quantitation Factor		1.0	1.0	1.0	1.0

APPENDIX C

SUPPORT DOCUMENTATION

FIELD DUPLICATE PRECISION

ANALYTE	FD102803-01	SD06-MW06-01	RPD	DIFFERENCE
1-Methylnaphthalene	0.2U	0.088	#VALUE!	#VALUE!
Naphthalene	0.2U	0.085	#VALUE!	#VALUE!

HOLDTIME

SDG CTO318-1

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	G01-GS-05-1103	WT2879-5	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	%	FC-MW-05-1103	WT2841-4	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11
OV	%	KW-RINS-01-1103	WT2841-5	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11
OV	%	KWDUP-01-1103	WT2841-2	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11
OV	%	G01-GS-10-1103	WT2879-10	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	%	G01-GS-09-1103	WT2879-9	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	%	G01-GS-08-1103	WT2879-8	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	%	KWTB-111303	WT2879-11	NM	11/6/2003	11/17/2003	11/17/2003	11	0	11
OV	%	G01-GS-06-1103	WT2879-6	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	%	TB111103RA	WT2841-8RA	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11
OV	%	G01-GS-04-1103	WT2879-4	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	%	G01-GS-03-1103	WT2879-3	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	%	G01-GS-02-1103	WT2879-2	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	%	G01-GS-01-1103	WT2879-1	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	%	FC-MW-22-1103	WT2841-6	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMPLE_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	FC-MW-06-1103	WT2841-1	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11
OV	%	G01-GS-07-1103	WT2879-7	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	UG/L	G01-GS-05-1103	WT2879-5	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	UG/L	KWTB-111303	WT2879-11	NM	11/6/2003	11/17/2003	11/17/2003	11	0	11
OV	UG/L	KW-RINS-01-1103	WT2841-5	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11
OV	UG/L	KWDUP-01-1103	WT2841-2	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11
OV	UG/L	G01-GS-10-1103	WT2879-10	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	UG/L	G01-GS-09-1103	WT2879-9	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	UG/L	G01-GS-08-1103	WT2879-8	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	UG/L	FC-MW-05-1103	WT2841-4	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11
OV	UG/L	G01-GS-06-1103	WT2879-6	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	UG/L	TB111103RA	WT2841-8RA	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11
OV	UG/L	G01-GS-04-1103	WT2879-4	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	UG/L	G01-GS-03-1103	WT2879-3	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	UG/L	G01-GS-02-1103	WT2879-2	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	UG/L	G01-GS-01-1103	WT2879-1	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4
OV	UG/L	FC-MW-22-1103	WT2841-6	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11
OV	UG/L	FC-MW-06-1103	WT2841-1	NM	11/11/2003	11/22/2003	11/22/2003	11	0	11

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	UG/L	G01-GS-07-1103	WT2879-7	NM	11/13/2003	11/17/2003	11/17/2003	4	0	4

HOLDTIME

SDG CTO318-1

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
EDB	%	KWDUP-01-1103	WT2841-2	NM	11/11/2003	11/24/2003	11/25/2003	13	1	14
EDB	%	FC-MW-22-1103	WT2841-6	NM	11/11/2003	11/24/2003	11/25/2003	13	1	14
EDB	%	FC-MW-06-1103	WT2841-1	NM	11/11/2003	11/24/2003	11/25/2003	13	1	14
EDB	%	FC-MW-05-1103	WT2841-4	NM	11/11/2003	11/24/2003	11/25/2003	13	1	14
EDB	UG/L	KWDUP-01-1103	WT2841-2	NM	11/11/2003	11/24/2003	11/25/2003	13	1	14
EDB	UG/L	FC-MW-22-1103	WT2841-6	NM	11/11/2003	11/24/2003	11/25/2003	13	1	14
EDB	UG/L	FC-MW-06-1103	WT2841-1	NM	11/11/2003	11/24/2003	11/25/2003	13	1	14
EDB	UG/L	FC-MW-05-1103	WT2841-4	NM	11/11/2003	11/24/2003	11/25/2003	13	1	14

HOLDTIME

SDG CTO318-1

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	%	KW-RINS-01-1103	WT2841-5RE	NM	11/11/2003	11/24/2003	11/26/2003	13	2	15
OS	%	KW-RINS-01-1103	WT2841-5	NM	11/11/2003	11/15/2003	11/20/2003	4	5	9
PAH ~~OS~~	%	KWDUP-01-1103	WT2841-2	NM	11/11/2003	11/13/2003	11/17/2003	2	4	6
PAH ~~OS~~	%	FC-MW-06-1103	WT2841-1	NM	11/11/2003	11/13/2003	11/17/2003	2	4	6
PAH ~~OS~~	%	FC-MW-05-1103	WT2841-4	NM	11/11/2003	11/13/2003	11/17/2003	2	4	6
PAH ~~OS~~	%	B01-MW-03-1103	WT2841-3	NM	11/11/2003	11/13/2003	11/17/2003	2	4	6
PAH ~~OS~~	%	B01-MW-01-1103	WT2841-7	NM	11/11/2003	11/13/2003	11/17/2003	2	4	6
OS	UG/L	KW-RINS-01-1103	WT2841-5RE	NM	11/11/2003	11/24/2003	11/26/2003	13	2	15
OS	UG/L	KW-RINS-01-1103	WT2841-5	NM	11/11/2003	11/15/2003	11/20/2003	4	5	9
PAH ~~OS~~	UG/L	KWDUP-01-1103	WT2841-2	NM	11/11/2003	11/13/2003	11/17/2003	2	4	6
~~OS~~	UG/L	FC-MW-06-1103	WT2841-1	NM	11/11/2003	11/13/2003	11/17/2003	2	4	6
~~OS~~	UG/L	FC-MW-05-1103	WT2841-4	NM	11/11/2003	11/13/2003	11/17/2003	2	4	6
~~OS~~	UG/L	B01-MW-03-1103	WT2841-3	NM	11/11/2003	11/13/2003	11/17/2003	2	4	6
~~OS~~	UG/L	B01-MW-01-1103	WT2841-7	NM	11/11/2003	11/13/2003	11/17/2003	2	4	6

HOLDTIME

SDG CTO318-1

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PCS7	%	KW-RINS-01-1103	WT2841-5	NM	11/11/2003	11/12/2003	12/3/2003	1	21	22
↓	UG/L	KW-RINS-01-1103	WT2841-5	NM	11/11/2003	11/12/2003	12/3/2003	1	21	22

HOLDTIME

SDG CTO318-1

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PCB	%	KW-RINS-01-1103	WT2841-5	NM	11/11/2003	11/12/2003	12/2/2003	1	20	21
PCB	UG/L	KW-RINS-01-1103	WT2841-5	NM	11/11/2003	11/12/2003	12/2/2003	1	20	21

HOLDTIME

SDG C311437

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TPH	MG/L	KW-DUP-01-1103	C311437*2	NM	11/11/2003	11/17/2003	11/18/2003	6	1	7
TPH	MG/L	FC-MW-22-1103	C311437*4	NM	11/11/2003	11/17/2003	11/18/2003	6	1	7
TPH	MG/L	FC-MW-06-1103	C311437*1	NM	11/11/2003	11/17/2003	11/18/2003	6	1	7
TPH	MG/L	FC-MW-05-1103	C311437*3	NM	11/11/2003	11/17/2003	11/18/2003	6	1	7
	%	KWDUP-01-1103	WT2841-2	NM	11/11/2003	11/13/2003	11/19/2003	2	6	8
	%	FC-MW-22-1103	WT2841-6	NM	11/11/2003	11/13/2003	11/19/2003	2	6	8
	%	FC-MW-06-1103	WT2841-1	NM	11/11/2003	11/13/2003	11/19/2003	2	6	8
	%	FC-MW-05-1103	WT2841-4	NM	11/11/2003	11/13/2003	11/19/2003	2	6	8
	UG/L	KWDUP-01-1103	WT2841-2	NM	11/11/2003	11/13/2003	11/19/2003	2	6	8
	UG/L	FC-MW-22-1103	WT2841-6	NM	11/11/2003	11/13/2003	11/19/2003	2	6	8
	UG/L	FC-MW-06-1103	WT2841-1	NM	11/11/2003	11/13/2003	11/19/2003	2	6	8
	UG/L	FC-MW-05-1103	WT2841-4	NM	11/11/2003	11/13/2003	11/19/2003	2	6	8

Katahdin
ANALYTICAL SERVICES

Cert. No. E87604

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NAS KEY WEST; SDG: CTO318-1
WT2841, WT2879
TASK ORDER MANAGER: CHARLES BRYAN

Sample Receipt

The following samples were received on November 12 and 14, 2003 and were logged in under Katahdin Analytical Services work order number WT2841 and WT2879 for a hardcopy due date of December 1, 2003.

KATAHDIN Sample No.	TTNUS Sample Identification
WT2841-1	FC-MW-06-1103
WT2841-2	KWDUP-01-1103
WT2841-3	B01-MW-03-1103
WT2841-4	FC-MW-05-1103
WT2841-5	KW-RINS-01-1103
WT2841-6	FC-MW-22-1103
WT2841-7	B01-MW-01-1103
WT2841-8	TB111103
WT2879-1	G01-GS-01-1103
WT2879-2	G01-GS-02-1103
WT2879-3	G01-GS-03-1103
WT2879-4	G01-GS-04-1103
WT2879-5	G01-GS-05-1103
WT2879-6	G01-GS-06-1103
WT2879-7	G01-GS-07-1103
WT2879-8	G01-GS-08-1103
WT2879-9	G01-GS-09-1103
WT2879-10	G01-GS-10-1103
WT2879-11	KWTB-111303

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Organics Laboratory

The samples of SDG CTO318-1 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, Office of Solid Waste and Emergency Response and/or Method for Determination of Petroleum Range Organics (Method #FL-PRO), Florida Department of Environmental Protection, November 1, 1995, U.S. EPA and/or "Methods for the Determination of Organic Compounds in Drinking Water", U.S. EPA, Environmental Monitoring and Support Laboratory - Cincinnati (September 1995) for the specific method listed below or the Report of Analysis. Sample WT2841-6 was used for the matrix spike (MS) and matrix spike duplicate (MSD), as per client request. Some manual integrations may have been performed due to split peaks and/or corrected baselines. All have been flagged with a "M" (software-generated) on the pertinent quantitation reports.

8270C SIM Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The acceptance limits for the MS/MSD are for a short list of the spiked compounds. Katahdin standard operating procedure is not to take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory phthalate ester contaminants) in the LCS are outside of the QC limits.

The MS and MSD had recoveries for naphthalene and 2-methylnaphthalene that were not calculable because the concentrations for those analytes in the native sample were greater than those in the MS and MSD. The MS and MSD had low recoveries for the spiked analyte indeno(1,2,3-cd)pyrene. The MSD also had low recoveries for benzo(a)pyrene, dibenzo(a,h) anthracene and benzo(g,h,i)perylene. Since the associated LCS was acceptable, therefore indicating a possible matrix effect, the samples were not reanalyzed.

8270C Analysis

Sample WT2841-5 had low recoveries for the surrogates 2-fluorophenol and nitrobenzene-D5, which were outside the laboratory established acceptance limits. The sample was reextracted six days out of hold time. The reextracted sample also had low recoveries for 2-fluorophenol and nitrobenzene-D5, confirming a matrix effect.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The acceptance limits for the MS/MSD are for a short list of the spiked compounds. Katahdin standard operating procedure is not to take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory phthalate ester contaminants) in the LCS are outside of the QC limits.

There was one initial calibration performed for this SDG which was analyzed on the U instrument on 11/12/03. This calibration had %RSD values for several analytes that exceeded the method acceptance limit of 15%. For these analytes, either a linear or quadratic model was used for quantitation instead of an average response factor. The analytes 2,4-dinitrophenol and diethylphthalate failed for both the linear and quadratic models in the initial calibration curve due to the correlation coefficient being less than the method acceptance criteria of 0.990. These compounds were calibrated using the average model. Since the associated sample did not detect these analytes above the MDL, the samples were not reanalyzed.

504.1 Analysis:

Samples WT2841-1, 2, 4, 6, the method blank WG4775-1, the laboratory control sample (LCS) WG4775-2 the laboratory control duplicate sample (LCSD) WG4775-3, the matrix spike sample (MS) WG4775-4 and the matrix spike sample duplicate WG4775-5 (MS) had recoveries for the surrogate TCMX that were high and outside of the laboratory established acceptance limits on both channels. Since a high recovery would indicate a high bias and the target analyte EDB was not detected in any samples above the MDL, the samples were not reextracted.

The LCSD WG4775-3, MS WG4775-4, MSD WG4775-5 had recoveries for the analyte EDB that were high and outside the laboratory established acceptance limits. Since a high recovery would indicate a high bias and the target analyte EDB was not detected in any samples above the MDL, the samples were not reextracted.

8081 Analysis

The closing calibration verification standard (CV) (file 8TL1078) had a low response for gamma-BHC on the A channel, which resulted in a %D that was outside of the method acceptance limit of 15%. Since the response on the confirmation channel was acceptable and the associated samples did not detect gamma-BHC above the MDL, the samples were not reanalyzed.

The LCS WG4477-2 had low recoveries for the spiked analytes endosulfan I and endosulfan II, which were outside of the laboratory established acceptance limits.

8082 Analysis

Sample WT2841-5 had low recoveries for the surrogate DCB on both channels, which were outside of the laboratory established acceptance limits. Since the recovery for TCX was within the acceptance limits on both channels, the samples were not reanalyzed.

The independent calibration check standard had a high recovery of Aroclor 1260 on channel A, which resulted in a %D that was outside of the method acceptance limit of 15%. Aroclor 1260 was within criteria on channel B.

FL-PRO Analysis

The samples WT2841-1, and 2 and the matrix spike duplicates, WG4497-3 and 4, had recoveries for the surrogate, o-terphenyl that were low and outside of the method acceptance limits. Since the recoveries for the second surrogate were acceptable, the samples were not reextracted.

The laboratory control sample, WG4497-2, and the matrix spike sample duplicates, WG4497-3 and 4, had PRO recoveries that were high and outside of the method acceptance limits. This is possibly due to an inadvertent addition of twice the amount of spiking solution during the extraction process.

The calibration verification standards (file CTK2044 and CTK2057) had a low response for the surrogate, o-terphenyl, which resulted in %D's that were above the method acceptance limit of 25%.

8260B Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The acceptance limits for the MS/MSD are for a short list of the spiked compounds. Katahdin standard operating procedure is to not take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory contaminants acetone and methylene chloride) in the LCS are outside of the QC limits.

Some method blanks may have detected one or more target analytes above the MDL. Any of these analytes that were also detected in any of the associated samples were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of Katahdin SDG CTO318-1 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Waste", SW-846, November 1986, Third Edition.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix Katahdin Sample Nos. WT2841-(1-2, 4-6) were digested for ICP analysis on 11/18/03 (QC Batch TK18ICW1) in accordance with USEPA Method 3010A. Katahdin Sample No. WT2841-6 was prepared with duplicate matrix spiked aliquots.

ICP analyses of SDG CTO318-1 sample digestates were performed using a Thermo Jarrell Ash (TJA) 61E ICP spectrometer and a TJA Trace ICP spectrometer. All samples were analyzed within holding times and all analytical run QC criteria were met, with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question.

Analysis of Mercury by Cold Vapor Atomic Absorption (CVAA)

Aqueous-matrix Katahdin Sample No. WT2841-5 was digested for mercury analysis on 11/21/03 (QC Batch TK21HGW1) in accordance with USEPA Method 7470A.

Mercury analyses of Katahdin SDG CTO318-1 sample digestates were performed using a Leeman Labs PS200 automated mercury analyzer. All samples were analyzed within holding times and all analytical run QC criteria were met.

Matrix QC Summary

Both of the recoveries for the matrix spike aliquots of Katahdin Sample No. WT2841-6 were within the laboratory's acceptance criteria (75% - 125% recovery of the added element, if the native concentration is less than four times the amount added) for lead.

The matrix spike duplicate precision analysis of Katahdin Sample No. WT2841-6 was within the laboratory's acceptance limit (<20% relative difference between duplicate matrix spiked aliquots) for lead.

The serial dilution analyses of Katahdin Sample No. WT2841-6 was within the laboratory's acceptance limit (<10% relative percent difference, if the concentration in the original sample is greater than 50 times the IDL) for lead.

Subcontracted Analysis

Analyses for Total Petroleum Hydrocarbon Fractions were performed by a subcontract laboratory. Please refer to the sections of the data package titled Subcontracted Data.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

María Crouch
Quality Assurance Officer

(WT284)

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 3830 | **PAGE** 1 **OF** 1

PROJECT NO: CTO	**FACILITY:** NAS KW	**PROJECT MANAGER** Chuck Bryan	**PHONE NUMBER** 803-649-7963
SAMPLERS (SIGNATURE) Emily McKee		**FIELD OPERATIONS LEADER** Emily McKee	**PHONE NUMBER** 305-219-1662
		CARRIER/WAYBILL NUMBER 834182781	

LABORATORY NAME AND CONTACT: Katahdin - Andrea Colby
ADDRESS 340 County Rd. No. 5
CITY, STATE Westbrook, ME

STANDARD TAT ☐
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☒ 14 day

DATE (YEAR 2003)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: TPL VOAs + BTEX, MTBE	EDB	TPH Subclassification	TRPH	PAH	Lead	TAL Metals + Tin	TCL VOCs	TCL SVOC	TCL Pest/PCB	COMMENTS
		CONTAINER TYPE PLASTIC (P) or GLASS (G)							G	G	G	G	G	P	P				
		PRESERVATIVE USED							HCl	HCl	HCl	HZl	—	HNO3	HNO3	HZl	—	—	
11/11	1150	FC-MW-06-1103	MW-6	—	—	GW	G	13	3	2	3	2	2	1					
11/11	0000	KWDUP-01-1103	—	—	—	GW	G	13	3	2	3	2	2	1					
11/11	1630	BOI-MW-03-1103	MW-3	—	—	GW	G	2					2						
11/11	1415	FC-MW-05-1103	MW-5	—	—	GW	G	13	3	2	3	2	2	1					
11/11	1515	KWRINS-01-1103	QC	—	—	QC	G	8							1	3	2	2	
11/11	1135	FC-MW-22-1103	MW-22	—	—	GW	G	13	3	2	3	2	2	1					MS/MSD
11/11	1625	~~[illegible]~~ BOI-MW-01-1103	MW-01	—	—	GW	G	2					2						
11/11	1712	TB111103	—	—	—	QC	G	2	2										

1. RELINQUISHED BY Emily McKee	DATE 11/11/03	TIME 1800	1. RECEIVED BY Cindy Broadbent	DATE 11-12-03	TIME 0925
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

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WD877 + WT288U

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 3876 | PAGE 1 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 318	NAS Key West	Chuck Bryan	803-649-7963x344	Andrea Colby - Katahdin Analytical

SAMPLERS (SIGNATURE): Emily McRee, [signature]

FIELD OPERATIONS LEADER: Emily McRee | PHONE NUMBER: 305-219-1662 | ADDRESS: 340 County Rd. No. 5

CARRIER/WAYBILL NUMBER: 8425 8908 7899 | CITY, STATE: Westbrook, ME 04092

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☒ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G, G, G, G

PRESERVATIVE USED: /, /, 3D1 Meth, /

TYPE OF ANALYSIS: PPL VOHs + BTEX, MTBE; PAHs; BTEX, MTBE; TRPH

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	PPL VOHs + BTEX, MTBE	PAHs	BTEX, MTBE	TRPH				COMMENTS
11/13	0850	G01-GS-01-1103	SB-1	—		GW	G	3	3	[illegible]						Preservative rinsed from all VOC groundwater samples
11/13	0920	G01-GS-02-1103	SB-2	—		GW	G	3	3							
11/13	1000	G01-GS-03-1103	SB-3	—		GW	G	3	3							
11/13	1035	G01-GS-04-1103	SB-4	—		GW	G	3	3							
11/13	1100	G01-GS-05-1103	SB-5	—		GW	G	3	3							
11/13	1135	G01-GS-06-1103	SB-6	—		GW	G	3	3							
11/13	1205	G01-GS-07-1103	SB-7	—		GW	G	3	3							
11/13	1410	G01-GS-08-1103	SB-8	—		GW	G	3	3							
11/13	1435	G01-GS-09-1103	SB-9	—		GW	G	3	3							
11/13	1530	G01-GS-10-1103	SB-10	—		GW	G	3	3							
~~11/13~~		~~G01-GS-11-1103~~	~~SB-11~~			~~GW~~	~~G~~	~~3~~								
11/13	0950	G01-SB-01-1103L	SB-1	0	2	SO	G	6		1	4	1				
11/13	1150	G01-SB-05-1103M	SB-5	0	2	SO	G	6		1	4	1				

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Emily McRee	11/13/03	1730	1. RECEIVED BY: [signature]	11-14-03	0730
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

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TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER 3867

PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
SAMPLERS (SIGNATURE) Emily McKee, Gary Bruggs		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		CARRIER/WAYBILL NUMBER 8425 8902 7899		CITY, STATE

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☒ 14 day

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: PPL VOCs + BTEX, MTBE	HCl	6	COMMENTS
11/6	1550	KWTB-111303	—			QC	6	2	2					

1. RELINQUISHED BY Emily McKee	DATE 11/13/03	TIME 1730	1. RECEIVED BY Amy Brueckner	DATE 11-14-03	TIME 0730
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

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CN ID: 475

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STL Pensacola
3355 McLemore Drive
Pensacola, FL 32514

Tel: 850 474 1001 Fax: 850 478 2671
www.stl-inc.com

CASE NARRATIVE

Order: C311437
Project: WT2841 CTO318

The following samples were received at STL Pensacola on November 14, 2003 in good condition. Please see Project Sample Inspection Sheet (PSIF) for further information.

SAMPLE#	SAMPLE DESCRIPTION	MATRIX
C311437*1	FC-MW-06-1103	Liquid
C311437*2	KW-DUP-01-1103	Liquid
C311437*3	FC-MW-05-1103	Liquid
C311437*4	FC-MW-22-1103	Liquid

Sample 4 contained a result of 6.0 mg/l in the total carbon range of C8-C10. The sample was not fractionated because the resulting aromatic and aliphatic results would be less than the reporting limit of 5.0 mg/l. The product is gasoline.

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Lab File ID: MB484 BFB Injection Date: 11/13/03

Instrument ID: GCMS-M BFB Injection Time: 1618

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.8
75	30.0 - 60.0% of mass 95	42.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	74.9
175	4.0 - 9.0% of mass 174	5.6 (7.5)1
176	95.0 - 101.0% of mass 174	73.3 (98.0)1
177	5.0 - 9.0% of mass 176	5.4 (7.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS.

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD005M13D	M1118	11/13/03	1731
02		VSTD001M13F	M1120	11/13/03	1836
03		VSTD020M13B	M1121	11/13/03	1909
04		VSTD200M13B	M1122	11/13/03	1941
05		VSTD100M13B	M1123	11/13/03	2014
06		VSTD050M13D	M1125	11/13/03	2119
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Lab File ID: MB486 BFB Injection Date: 11/17/03

Instrument ID: GCMS-M BFB Injection Time: 0901

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.5
75	30.0 - 60.0% of mass 95	44.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	65.2
175	4.0 - 9.0% of mass 174	4.9 (7.5)1
176	95.0 - 101.0% of mass 174	63.7 (97.6)1
177	5.0 - 9.0% of mass 176	4.1 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050M17B	M1151	11/17/03	1011
02	WG4601-LCS	WG4601-1	M1152	11/17/03	1050
03	WG4601-BLANK	WG4601-2	M1154	11/17/03	1201
04	KWTB-111303	WT2879-11	M1155	11/17/03	1243
05	G01-GS-01-1103	WT2879-1	M1157	11/17/03	1348
06	G01-GS-02-1103	WT2879-2	M1158	11/17/03	1421
07	G01-GS-03-1103	WT2879-3	M1159	11/17/03	1454
08	G01-GS-04-1103	WT2879-4	M1160	11/17/03	1526
09	G01-GS-05-1103	WT2879-5	M1161	11/17/03	1559
10	G01-GS-06-1103	WT2879-6	M1162	11/17/03	1632
11	G01-GS-07-1103	WT2879-7	M1163	11/17/03	1705
12	G01-GS-08-1103	WT2879-8	M1164	11/17/03	1738
13	G01-GS-09-1103	WT2879-9	M1165	11/17/03	1810
14	G01-GS-10-1103	WT2879-10	M1166	11/17/03	1844
15					
16					
17					
18					
19					
20					
21					
22					

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-M Calibration Date: 11/17/03 Time: 1011

Lab File ID: M1151 Init. Calib. Date(s): 11/13/03 11/14/03

Init. Calib. Times: 1731 0004

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Chloromethane	0.6630000	0.5944400	0.5944400	0.1	-10.34		AVRG	
Vinyl chloride	0.5180000	0.4907200	0.4907200	0.01	-5.27	20.00	AVRG	
Bromomethane	46.269000	50.000000	0.2903600	0.01	-7.46		LINR	
Chloroethane	0.3110000	0.2774900	0.2774900	0.01	-10.78		AVRG	
1,1-Dichloroethene	0.3760000	0.3752800	0.3752800	0.1	-0.19	20.00	AVRG	
Methylene Chloride	50.833000	50.000000	0.5712100	0.01	1.67		LINR	
trans-1,2-Dichloroethene	0.5060000	0.5486400	0.5486400	0.01	8.43		AVRG	
Methyl tert-butyl ether	1.3720000	1.4282000	1.4282000	0.01	4.10		AVRG	
1,1-Dichloroethane	0.9260000	0.9690700	0.9690700	0.1	4.65		AVRG	
cis-1,2-Dichloroethene	0.5620000	0.5945900	0.5945900	0.01	5.80		AVRG	
Chloroform	0.9510000	0.9303800	0.9303800	0.01	-2.17	20.00	AVRG	
Carbon Tetrachloride	0.3390000	0.3806000	0.3806000	0.01	12.27		AVRG	
1,1,1-Trichloroethane	0.7100000	0.7456100	0.7456100	0.01	5.02		AVRG	
Benzene	1.1740000	1.2774000	1.2774000	0.01	8.81		AVRG	
1,2-Dichloroethane	0.4000000	0.4271600	0.4271600	0.01	6.79		AVRG	
Trichloroethene	0.3290000	0.3501600	0.3501600	0.01	6.43		AVRG	
1,2-Dichloropropane	0.3230000	0.3332100	0.3332100	0.01	3.16	20.00	AVRG	
Bromodichloromethane	0.3960000	0.4293100	0.4293100	0.01	8.41		AVRG	
cis-1,3-dichloropropene	0.4910000	0.5470000	0.5470000	0.01	11.40		AVRG	
2-Chloroethylvinylether	57.336000	50.000000	0.1747300	0.01	14.67		LINR	
Toluene	0.7200000	0.7809900	0.7809900	0.01	8.47	20.00	AVRG	
Tetrachloroethene	0.2840000	0.2914600	0.2914600	0.01	2.63		AVRG	
trans-1,3-Dichloropropene	0.4050000	0.4591400	0.4591400	0.01	13.37		AVRG	
1,1,2-Trichloroethane	0.2100000	0.2320400	0.2320400	0.01	10.50		AVRG	
Dibromochloromethane	0.3760000	0.4330900	0.4330900	0.01	15.18		AVRG	
Chlorobenzene	0.9850000	1.0795000	1.0795000	0.3	9.59		AVRG	
Ethylbenzene	1.6130000	1.7162000	1.7162000	0.01	6.40	20.00	AVRG	
Xylenes (total)	0.0000000	0.6728400	0.6728400	0.01	0.00		AVRG	<-
m+p-Xylenes	0.6160000	0.6804500	0.6804500	0.01	10.46		AVRG	

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-M Calibration Date: 11/17/03 Time: 1011

Lab File ID: M1151 Init. Calib. Date(s): 11/13/03 11/14/03

Init. Calib. Times: 1731 0004

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
o-Xylene	0.6080000	0.6576200	0.6576200	0.01	8.16		AVRG
Bromoform	55.857000	50.000000	0.2652500	0.1	11.71		LINR
1,1,2,2-Tetrachloroethane	0.7540000	0.8408500	0.8408500	0.3	11.52		AVRG
Dibromofluoromethane	0.5770000	0.5257700	0.5257700	0.01	-8.88		AVRG
1,2-Dichloroethane-D4	0.5830000	0.5048000	0.5048000	0.01	-13.41		AVRG
Toluene-D8	1.0720000	0.9990500	0.9990500	0.01	-6.80		AVRG
P-Bromofluorobenzene	0.4080000	0.3629700	0.3629700	0.01	-11.04		AVRG

Katahdin Analytical Services 1000064

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER
% Solids: NA

Lab ID: WG4601-2
Client ID: WG4601-BLANK
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	1	1.0	1	1	0.3
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.1
74-83-9	Bromomethane	U	1	1.0	1	1	0.9
75-00-3	Chloroethane	U	1	1.0	1	1	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	J	0.3	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.4
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	J	0.4	1.0	3	3	0.3
	m+p-Xylenes	J	0.3	1.0	2	2	0.2
95-47-6	o-Xylene	J	0.1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		91%				
17060-07-0	1,2-Dichloroethane-D4		91%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4601-1
Client ID: WG4601-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	55		110	4-217
Chloromethane	50	NA	43		86	40-163
Vinyl chloride	50	NA	51		101	55-151
Bromomethane	50	NA	47		94	24-217
Chloroethane	50	NA	44		88	69-134
Trichlorofluoromethane	50	NA	44		89	71-147
Diethyl Ether	50	NA	48		96	67-135
Tertiary-butyl alcohol	250	NA	240		96	58-146
1,1-Dichloroethene	50	NA	50		100	78-136
Carbon Disulfide	50	NA	36		73	70-136
Freon-113	50	NA	52		104	60-140
Iodomethane	50	NA	44		89	60-140
Acrolein	250	NA	277		111	0-199
Methylene Chloride	50	NA	49		98	52-115
Acetone	50	NA	80	*	159	0-158
Isobutyl Alcohol	1000	NA	892		89	60-140
trans-1,2-Dichloroethene	50	NA	52		103	84-131
Allyl Chloride	50	NA	50		100	60-140
Methyl tert-butyl ether	100	NA	91		91	62-130
Acetonitrile	500	NA	534		107	53-141
Di-isopropyl ether	50	NA	50		100	82-130
Chloroprene	50	NA	50		101	60-140
Methacrylonitrile	500	NA	493		99	60-140
Propionitrile	500	NA	661		132	60-140
1,1-Dichloroethane	50	NA	51		102	81-134
Acrylonitrile	250	NA	262		105	29-172
Ethyl tertiary-butyl ether	50	NA	49		98	85-124
Vinyl Acetate	50	NA	38		77	68-174
cis-1,2-Dichloroethene	50	NA	49		97	84-123
1,2-Dichloroethylene (total)	100	NA	100		100	84-131
Methyl Methacrylate	50	NA	46		91	60-140
2,2-Dichloropropane	50	NA	54		108	69-150
Bromochloromethane	50	NA	49		98	77-146
Chloroform	50	NA	46		92	80-130
Carbon Tetrachloride	50	NA	51		102	74-137
Tetrahydrofuran	50	NA	60		120	32-140
1,1,1-Trichloroethane	50	NA	50		99	76-138
1,1-Dichloropropene	50	NA	49		98	82-120
2-Butanone	50	NA	96	*	192	49-154
Benzene	50	NA	50		100	88-120
Ethyl Methacrylate	50	NA	50		100	60-140
Methyl Acrylate	50	NA	31		61	60-140
Tertiary-amyl methyl ether	50	NA	48		97	85-125
1,2-Dichloroethane	50	NA	48		97	78-138
Trichloroethene	50	NA	48		97	80-125

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4601-1
Client ID: WG4601-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dibromomethane	50	NA	51	102	88-130
1,2-Dichloropropane	50	NA	48	96	80-122
Bromodichloromethane	50	NA	47	94	83-133
cis-1,3-dichloropropene	50	NA	49	97	81-138
2-Chloroethylvinylether	50	NA	28	56	50-211
Toluene	50	NA	48	97	88-121
4-methyl-2-pentanone	50	NA	46	92	72-140
Tetrachloroethene	50	NA	48	97	77-129
trans-1,3-Dichloropropene	50	NA	50	101	81-149
1,1,2-Trichloroethane	50	NA	48	96	82-126
Dibromochloromethane	50	NA	50	101	80-133
1,3-Dichloropropane	50	NA	48	95	86-125
1,2-Dibromoethane	50	NA	49	98	88-127
2-Hexanone	50	NA	64	128	45-146
Chlorobenzene	50	NA	51	102	84-123
Ethylbenzene	50	NA	48	97	84-134
1,1,1,2-Tetrachloroethane	50	NA	50	101	83-130
Xylenes (total)	150	NA	149	99	88-123
m+p-Xylenes	100	NA	99	99	88-122
o-Xylene	50	NA	50	100	90-123
Styrene	50	NA	48	96	87-131
Bromoform	50	NA	48	96	77-138
Isopropylbenzene	50	NA	51	102	88-125
cis-1,4-Dichloro-2-Butene	50	NA	54	108	60-140
trans-1,4-Dichloro-2-Butene	50	NA	54	107	60-140
Bromobenzene	50	NA	50	99	84-133
N-Propylbenzene	50	NA	48	97	88-124
2-bromo-1-chloropropane		NA			60-140
1,1,2,2-Tetrachloroethane	50	NA	48	96	81-131
1,3,5-Trimethylbenzene	50	NA	48	96	89-124
2-Chlorotoluene	50	NA	48	96	84-128
1,2,3-Trichloropropane	50	NA	50	101	76-132
4-Chlorotoluene	50	NA	49	97	86-132
tert-Butylbenzene	50	NA	47	95	82-131
Pentachloroethane	50	NA	57	114	60-140
1,2,4-Trimethylbenzene	50	NA	47	95	88-121
P-Isopropyltoluene	50	NA	48	96	86-122
1,3-Dichlorobenzene	50	NA	51	101	86-124
1,4-Dichlorobenzene	50	NA	49	99	80-127
N-Butylbenzene	50	NA	47	95	81-133
sec-Butylbenzene	50	NA	47	93	85-122
1,2-Dichlorobenzene	50	NA	49	97	86-126
1,2-Dibromo-3-Chloropropane	50	NA	51	102	61-136
1,3,5-Trichlorobenzene	50	NA	54	108	67-128
Hexachlorobutadiene	50	NA	51	103	52-129

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/17/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4601-1
Client ID: WG4601-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4601
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	52	103	53-157
1,2,3-Trimethylbenzene	50	NA	52	104	60-140
Naphthalene	50	NA	45	91	45-151
1,2,3-Trichlorobenzene	50	NA	47	94	30-164
Methyl Acetate	50	NA	50	100	60-140
Methylcyclohexane	50	NA	47	94	60-140

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Lab File ID: MB494 BFB Injection Date: 11/21/03

Instrument ID: GCMS-M BFB Injection Time: 1527

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.2
75	30.0 - 60.0% of mass 95	41.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	80.5
175	4.0 - 9.0% of mass 174	5.3 (6.5)1
176	95.0 - 101.0% of mass 174	78.0 (96.9)1
177	5.0 - 9.0% of mass 176	4.6 (6.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050M21D	M1275	11/21/03	1736
02	WG4738-LCS	WG4738-1	M1277	11/21/03	1842
03	WG4738-BLANK	WG4738-2	M1280	11/21/03	2020
04	FC-MW-06-1103	WT2841-1	M1287	11/22/03	0010
05	KWDUP-01-1103	WT2841-2	M1288	11/22/03	0043
06	FC-MW-05-1103	WT2841-4	M1289	11/22/03	0115
07	KW-RINS-01-1103	WT2841-5	M1290	11/22/03	0148
08	FC-MW-22-1103	WT2841-6	M1291	11/22/03	0220
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-M Calibration Date: 11/21/03 Time: 1736

Lab File ID: M1275 Init. Calib. Date(s): 11/13/03 11/14/03

Init. Calib. Times: 1731 0004

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Dichlorodifluoromethane	67.073000	50.000000	0.4607400	0.01	34.15		LINR	
Chloromethane	0.6630000	0.2619200	0.2619200	0.1	-60.50		AVRG	
Vinyl chloride	0.5180000	0.6161100	0.6161100	0.01	18.94	20.00	AVRG	
Bromomethane	23.607000	50.000000	0.1306600	0.01	-52.79		LINR	
Chloroethane	0.3110000	0.3304000	0.3304000	0.01	6.24		AVRG	
Trichlorofluoromethane	0.6770000	0.7489000	0.7489000	0.01	10.62		AVRG	
Diethyl Ether	0.3580000	0.3732800	0.3732800	0.01	4.27		AVRG	
Tertiary-butyl alcohol	7.2e-002	7.47e-002	7.47e-002	0.01	3.75		AVRG	
1,1-Dichloroethene	0.3760000	0.4517300	0.4517300	0.1	20.14	20.00	AVRG	<-
Carbon Disulfide	1.5200000	1.6326000	1.6326000	0.01	7.41		AVRG	
Freon-113	0.3050000	0.3374800	0.3374800	0.01	10.65		AVRG	
Iodomethane	32.187000	50.000000	0.4677900	0.01	-35.63		LINR	
Acrolein	6.3e-002	8.23e-002	8.23e-002	0.01	30.64		AVRG	
Methylene Chloride	54.394000	50.000000	0.6098400	0.01	8.79		LINR	
Acetone	335.95000	250.00000	5.08e-002	0.01	34.38		LINR	
Isobutyl Alcohol	1.4e-002	1.35e-002	1.35e-002	0.01	-3.57		AVRG	
trans-1,2-Dichloroethene	0.5060000	0.5733900	0.5733900	0.01	13.32		AVRG	
Allyl Chloride	0.8920000	0.9759400	0.9759400	0.01	9.41		AVRG	
Methyl tert-butyl ether	1.3720000	1.4323000	1.4323000	0.01	4.40		AVRG	
Acetonitrile	9.e-003	1.18e-002	1.18e-002	0.01	31.11		AVRG	<-
Di-isopropyl ether	2.1330000	2.3408000	2.3408000	0.01	9.74		AVRG	
Hexane	0.0000000	0.5537200	0.5537200	0.01	0.00		AVRG	<-
Chloroprene	0.8280000	0.9262200	0.9262200	0.01	11.86		AVRG	
Methacrylonitrile	0.3060000	0.3830300	0.3830300	0.01	25.17		AVRG	
Propionitrile	3.7e-002	6.15e-002	6.15e-002	0.01	66.22		AVRG	
1,1-Dichloroethane	0.9260000	1.0427000	1.0427000	0.1	12.60		AVRG	
Acrylonitrile	339.70000	250.00000	0.1702000	0.01	35.88		LINR	
Ethyl tertiary-butyl ether	1.7140000	1.8229000	1.8229000	0.01	6.35		AVRG	
Vinyl Acetate	59.615000	50.000000	0.7482900	0.01	19.23		LINR	

Katahdin Analytical Services 1000065

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-M Calibration Date: 11/21/03 Time: 1736

Lab File ID: M1275 Init. Calib. Date(s): 11/13/03 11/14/03

Init. Calib. Times: 1731 0004

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
cis-1,2-Dichloroethene	0.5620000	0.6229200	0.6229200	0.01	10.84		AVRG	
1,2-Dichloroethylene (total)	0.0000000	0.5981600	0.5981600	0.01	0.00		AVRG	<-
Methyl Methacrylate	55.710000	50.000000	0.3040200	0.01	11.42		LINR	
2,2-Dichloropropane	0.6330000	0.7764000	0.7764000	0.01	22.65		AVRG	
Bromochloromethane	0.2880000	0.2613600	0.2613600	0.01	-9.25		AVRG	
Chloroform	0.9510000	0.9734000	0.9734000	0.01	2.36	20.00	AVRG	
Carbon Tetrachloride	0.3390000	0.3716000	0.3716000	0.01	9.62		AVRG	
Tetrahydrofuran	357.43000	250.00000	0.1374000	0.01	42.97		LINR	
1,1,1-Trichloroethane	0.7100000	0.7889400	0.7889400	0.01	11.12		AVRG	
1,1-Dichloropropene	0.3870000	0.4285500	0.4285500	0.01	10.74		AVRG	
2-Butanone	369.20000	250.00000	5.86e-002	0.01	47.68		LINR	
Benzene	1.1740000	1.2870000	1.2870000	0.01	9.62		AVRG	
Cyclohexane	0.8320000	0.8305000	0.8305000	0.01	-0.18		AVRG	
Ethyl Methacrylate	0.3590000	0.4152600	0.4152600	0.01	15.67		AVRG	
Methyl Acrylate	81.985000	50.000000	2.54e-002	0.01	63.97		LINR	
Tertiary-amyl methyl ether	1.4330000	1.5651000	1.5651000	0.01	9.22		AVRG	
1,2-Dichloroethane	0.4000000	0.4227500	0.4227500	0.01	5.69		AVRG	
Trichloroethene	0.3290000	0.3502300	0.3502300	0.01	6.45		AVRG	
Dibromomethane	0.1880000	0.2097500	0.2097500	0.01	11.57		AVRG	
1,2-Dichloropropane	0.3230000	0.3444400	0.3444400	0.01	6.64	20.00	AVRG	
Bromodichloromethane	0.3960000	0.4238000	0.4238000	0.01	7.02		AVRG	
cis-1,3-dichloropropene	0.4910000	0.5308100	0.5308100	0.01	8.11		AVRG	
1-Chlorohexane	0.0000000	0.3476300	0.3476300	0.01	0.00		AVRG	<-
1,4-Dioxane	3.e-003	2.05e-003	2.05e-003	0.01	-31.67		AVRG	<-
2-Chloroethylvinylether	55.576000	50.000000	0.1691600	0.01	11.15		LINR	
Toluene	0.7200000	0.7912600	0.7912600	0.01	9.90	20.00	AVRG	
4-methyl-2-pentanone	334.58000	250.00000	0.3231500	0.01	33.83		LINR	
Tetrachloroethene	0.2840000	0.2638400	0.2638400	0.01	-7.10		AVRG	
trans-1,3-Dichloropropene	0.4050000	0.4376900	0.4376900	0.01	8.07		AVRG	

Katahdin Analytical Services 1000066

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-M Calibration Date: 11/21/03 Time: 1736

Lab File ID: M1275 Init. Calib. Date(s): 11/13/03 11/14/03

Init. Calib. Times: 1731 0004

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
1,1,2-Trichloroethane	0.2100000	0.2293600	0.2293600	0.01	9.22		AVRG	
Dibromochloromethane	0.3760000	0.3826400	0.3826400	0.01	1.77		AVRG	
1,3-Dichloropropane	0.5860000	0.6212500	0.6212500	0.01	6.02		AVRG	
1,2-Dibromoethane	0.2790000	0.3012800	0.3012800	0.01	7.98		AVRG	
2-Hexanone	342.50000	250.00000	0.2745300	0.01	37.00		LINR	
Chlorobenzene	0.9850000	1.0168000	1.0168000	0.3	3.23		AVRG	
Ethylbenzene	1.6130000	1.6894000	1.6894000	0.01	4.74	20.00	AVRG	
1,1,1,2-Tetrachloroethane	0.3490000	0.3533800	0.3533800	0.01	1.26		AVRG	
Xylenes (total)	0.0000000	0.6368500	0.6368500	0.01	0.00		AVRG	<-
m+p-Xylenes	0.6160000	0.6453800	0.6453800	0.01	4.77		AVRG	
o-Xylene	0.6080000	0.6197800	0.6197800	0.01	1.94		AVRG	
Styrene	1.0640000	1.1091000	1.1091000	0.01	4.24		AVRG	
Bromoform	47.768000	50.000000	0.2252400	0.1	-4.46		LINR	
Isopropylbenzene	3.0790000	3.0777000	3.0777000	0.01	-0.04		AVRG	
cis-1,4-Dichloro-2-Butene	0.2400000	0.2422100	0.2422100	0.01	0.92		AVRG	
trans-1,4-Dichloro-2-Butene	0.2240000	0.2354500	0.2354500	0.01	5.11		AVRG	
Bromobenzene	0.8540000	0.8480700	0.8480700	0.01	-0.69		AVRG	
N-Propylbenzene	3.6100000	3.7675000	3.7675000	0.01	4.36		AVRG	
2-bromo-1-chloropropane	0.0000000			0.01	0.00		AVRG	<-
1,1,2,2-Tetrachloroethane	0.7540000	0.8383300	0.8383300	0.3	11.18		AVRG	
1,3,5-Trimethylbenzene	2.5400000	2.5675000	2.5675000	0.01	1.08		AVRG	
2-Chlorotoluene	2.5660000	2.6810000	2.6810000	0.01	4.48		AVRG	
1,2,3-Trichloropropane	0.9660000	1.0575000	1.0575000	0.01	9.47		AVRG	
4-Chlorotoluene	2.4040000	2.4870000	2.4870000	0.01	3.45		AVRG	
tert-Butylbenzene	2.1070000	2.1846000	2.1846000	0.01	3.68		AVRG	
Pentachloroethane	0.5590000	0.6228400	0.6228400	0.01	11.42		AVRG	
1,2,4-Trimethylbenzene	2.6530000	2.7292000	2.7292000	0.01	2.87		AVRG	
P-Isopropyltoluene	2.5080000	2.3825000	2.3825000	0.01	-5.00		AVRG	
1,3-Dichlorobenzene	1.4290000	1.4342000	1.4342000	0.01	0.36		AVRG	

Katahdin Analytical Services 1000067

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-M Calibration Date: 11/21/03 Time: 1736

Lab File ID: M1275 Init. Calib. Date(s): 11/13/03 11/14/03

Init. Calib. Times: 1731 0004

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,4-Dichlorobenzene	1.4830000	1.4538000	1.4538000	0.01	-1.97		AVRG
N-Butylbenzene	2.1380000	2.1781000	2.1781000	0.01	1.88		AVRG
sec-Butylbenzene	3.0240000	2.9890000	2.9890000	0.01	-1.16		AVRG
1,2-Dichlorobenzene	1.3260000	1.3105000	1.3105000	0.01	-1.17		AVRG
1,2-Dibromo-3-Chloropropane	0.1950000	0.1993000	0.1993000	0.01	2.20		AVRG
1,3,5-Trichlorobenzene	0.4100000	0.3914000	0.3914000	0.01	-4.54		AVRG
Hexachlorobutadiene	46.021000	50.000000	0.2123100	0.01	-7.96		LINR
1,2,4-Trichlorobenzene	0.3460000	0.2867500	0.2867500	0.01	-17.12		AVRG
1,2,3-Trimethylbenzene	1.6170000	1.7281000	1.7281000	0.01	6.87		AVRG
Naphthalene	36.061000	50.000000	0.3184200	0.01	-27.88		LINR
1,2,3-Trichlorobenzene	38.041000	50.000000	0.1214400	0.01	-23.92		LINR
Methyl Acetate	0.4270000	0.5475800	0.5475800	0.01	28.24		AVRG
Methylcyclohexane	0.7000000	0.7236600	0.7236600	0.01	3.38		AVRG
Dibromofluoromethane	0.5770000	0.5633300	0.5633300	0.01	-2.37		AVRG
1,2-Dichloroethane-D4	0.5830000	0.5619400	0.5619400	0.01	-3.61		AVRG
Toluene-D8	1.0720000	1.0420000	1.0420000	0.01	-2.80		AVRG
P-Bromofluorobenzene	0.4080000	0.3929300	0.3929300	0.01	-3.69		AVRG

Katahdin Analytical Services 1000068

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WG4738-2
Client ID: WG4738-BLANK
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	1	1.0	1	1	0.2
74-87-3	Chloromethane	U	1	1.0	1	1	0.3
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.1
74-83-9	Bromomethane	U	1	1.0	1	1	0.9
75-00-3	Chloroethane	U	1	1.0	1	1	0.3
75-69-4	Trichlorofluoromethane	U	1	1.0	1	1	0.2
100-44-7	Diethyl Ether	U	1	1.0	1	1	0.3
75-65-0	Tertiary-butyl alcohol	U	5	1.0	5	5	2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
76-13-1	Freon-113	U	1	1.0	1	1	0.5
74-88-4	Iodomethane	U	1	1.0	1	1	0.2
107-02-8	Acrolein	U	5	1.0	5	5	3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
67-64-1	Acetone	U	5	1.0	5	5	3
78-83-1	Isobutyl Alcohol	U	20	1.0	20	20	7
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.3
107-05-1	Allyl Chloride	U	1	1.0	1	1	1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-05-8	Acetonitrile	U	10	1.0	10	10	6
108-20-3	Di-isopropyl ether	U	1	1.0	1	1	0.1
110-54-3	Hexane	U	1	1.0	1	1	0.2
126-99-8	Chloroprene	U	1	1.0	1	1	2
126-98-7	Methacrylonitrile	U	10	1.0	10	10	11
107-12-0	Propionitrile	U	10	1.0	10	10	16
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
107-13-1	Acrylonitrile	U	5	1.0	5	5	0.8
637-92-3	Ethyl tertiary-butyl ether	U	1	1.0	1	1	0.2
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.3
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	1
80-62-6	Methyl Methacrylate	U	1	1.0	1	1	1
594-20-7	2,2-Dichloropropane	U	1	1.0	1	1	0.4
74-97-5	Bromochloromethane	U	1	1.0	1	1	0.3
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
563-58-6	1,1-Dichloropropene	U	1	1.0	1	1	0.3
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-43-2	Benzene	U	1	1.0	1	1	0.1
1735-17-7	Cyclohexane	U	1	1.0	1	1	0.5
97-63-2	Ethyl Methacrylate	U	1	1.0	1	1	0.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WG4738-2
Client ID: WG4738-BLANK
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
96-33-3	Methyl Acrylate	U	1	1.0	1	1	0.5
994-05-8	Tertiary-amyl methyl ether	U	1	1.0	1	1	0.6
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
74-95-3	Dibromomethane	U	1	1.0	1	1	0.4
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
544-10-5	1-Chlorohexane	U	1	1.0	1	1	0.2
123-91-1	1,4-Dioxane	U	20	1.0	20	20	43
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.5
142-28-9	1,3-Dichloropropane	U	1	1.0	1	1	0.6
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
630-20-6	1,1,1,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.3
75-25-2	Bromoform	U	1	1.0	1	1	0.4
98-82-8	Isopropylbenzene	U	1	1.0	1	1	0.2
1476-11-5	cis-1,4-Dichloro-2-Butene	U	1	1.0	1	1	0.5
110-57-6	trans-1,4-Dichloro-2-Butene	U	1	1.0	1	1	0.5
108-86-1	Bromobenzene	U	1	1.0	1	1	0.2
103-65-1	N-Propylbenzene	J	0.2	1.0	1	1	0.1
3017-95-6	2-bromo-1-chloropropane	U	1	1.0	1	1	0.5
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
108-67-8	1,3,5-Trimethylbenzene	J	0.2	1.0	1	1	0.2
95-49-8	2-Chlorotoluene	J	0.1	1.0	1	1	0.2
96-18-4	1,2,3-Trichloropropane	U	1	1.0	1	1	0.9
106-43-4	4-Chlorotoluene	J	0.1	1.0	1	1	0.2
98-06-6	tert-Butylbenzene	U	1	1.0	1	1	0.6
76-01-1	Pentachloroethane	U	1	1.0	1	1	0.5
95-63-6	1,2,4-Trimethylbenzene	J	0.2	1.0	1	1	0.2
99-87-6	P-Isopropyltoluene	J	0.3	1.0	1	1	0.3

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WG4738-2
Client ID: WG4738-BLANK
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
541-73-1	1,3-Dichlorobenzene	J	0.2	1.0	1	1	0.2
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
104-51-8	N-Butylbenzene	J	0.4	1.0	1	1	0.3
135-98-8	sec-Butylbenzene	J	0.3	1.0	1	1	0.2
95-50-1	1,2-Dichlorobenzene	J	0.2	1.0	1	1	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	1	1.0	1	1	0.6
108-70-3	1,3,5-Trichlorobenzene	J	0.5	1.0	1	1	0.2
87-68-3	Hexachlorobutadiene	U	1	1.0	1	1	0.5
120-82-1	1,2,4-Trichlorobenzene	J	0.8	1.0	1	1	0.3
526-73-8	1,2,3-Trimethylbenzene	U	1	1.0	1	1	0.5
91-20-3	Naphthalene	U	1	1.0	1	1	0.1
87-61-6	1,2,3-Trichlorobenzene		3	1.0	1	1	0.3
79-20-9	Methyl Acetate	U	1	1.0	1	1	0.2
108-87-2	Methylcyclohexane	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		99%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4738-1
Client ID: WG4738-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	65		130	4-217
Chloromethane	50	NA	24		48	40-163
Vinyl chloride	50	NA	60		120	55-151
Bromomethane	50	NA	18		37	24-217
Chloroethane	50	NA	55		110	69-134
Trichlorofluoromethane	50	NA	54		109	71-147
Diethyl Ether	50	NA	48		97	67-135
Tertiary-butyl alcohol	250	NA	243		97	58-146
1,1-Dichloroethene	50	NA	71	*	142	78-136
Carbon Disulfide	50	NA	57		114	70-136
Freon-113	50	NA	56		113	60-140
Iodomethane	50	NA	21	*	42	60-140
Acrolein	250	NA	276		110	0-199
Methylene Chloride	50	NA	59	*	117	52-115
Acetone	50	NA	70		140	0-158
Isobutyl Alcohol	1000	NA	520	*	52	60-140
trans-1,2-Dichloroethene	50	NA	62		125	84-131
Allyl Chloride	50	NA	47		94	60-140
Methyl tert-butyl ether	100	NA	96		96	62-130
Acetonitrile	500	NA	506		101	53-141
Di-isopropyl ether	50	NA	56		112	82-130
Chloroprene	50	NA	58		115	60-140
Methacrylonitrile	500	NA	520		104	60-140
Propionitrile	500	NA	618		124	60-140
1,1-Dichloroethane	50	NA	61		122	81-134
Acrylonitrile	250	NA	277		111	29-172
Ethyl tertiary-butyl ether	50	NA	51		102	85-124
Vinyl Acetate	50	NA	38		77	68-174
cis-1,2-Dichloroethene	50	NA	59		118	84-123
1,2-Dichloroethylene (total)	100	NA	121		121	84-131
Methyl Methacrylate	50	NA	43		86	60-140
2,2-Dichloropropane	50	NA	63		125	69-150
Bromochloromethane	50	NA	41		82	77-146
Chloroform	50	NA	56		111	80-130
Carbon Tetrachloride	50	NA	56		112	74-137
Tetrahydrofuran	50	NA	58		116	32-140
1,1,1-Trichloroethane	50	NA	60		120	76-138
1,1-Dichloropropene	50	NA	58		116	82-120
2-Butanone	50	NA	96	*	193	49-154
Benzene	50	NA	58		116	88-120
Ethyl Methacrylate	50	NA	48		96	60-140
Methyl Acrylate	50	NA	30		60	60-140
Tertiary-amyl methyl ether	50	NA	49		98	85-125
1,2-Dichloroethane	50	NA	51		102	78-138
Trichloroethene	50	NA	55		109	80-125

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4738-1
Client ID: WG4738-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dibromomethane	50	NA	52	104	88-130
1,2-Dichloropropane	50	NA	55	110	80-122
Bromodichloromethane	50	NA	51	102	83-133
cis-1,3-dichloropropene	50	NA	51	103	81-138
2-Chloroethylvinylether	50	NA	25	* 49	50-211
Toluene	50	NA	57	113	88-121
4-methyl-2-pentanone	50	NA	46	92	72-140
Tetrachloroethene	50	NA	53	106	77-129
trans-1,3-Dichloropropene	50	NA	51	101	81-149
1,1,2-Trichloroethane	50	NA	50	101	82-126
Dibromochloromethane	50	NA	49	99	80-133
1,3-Dichloropropane	50	NA	51	101	86-125
1,2-Dibromoethane	50	NA	49	98	88-127
2-Hexanone	50	NA	60	120	45-146
Chlorobenzene	50	NA	56	111	84-123
Ethylbenzene	50	NA	55	110	84-134
1,1,1,2-Tetrachloroethane	50	NA	53	106	83-130
Xylenes (total)	150	NA	165	110	88-123
m+p-Xylenes	100	NA	110	110	88-122
o-Xylene	50	NA	55	110	90-123
Styrene	50	NA	52	105	87-131
Bromoform	50	NA	43	86	77-138
Isopropylbenzene	50	NA	58	116	88-125
cis-1,4-Dichloro-2-Butene	50	NA	42	83	60-140
trans-1,4-Dichloro-2-Butene	50	NA	41	83	60-140
Bromobenzene	50	NA	52	104	84-133
N-Propylbenzene	50	NA	56	112	88-124
2-bromo-1-chloropropane		NA			60-140
1,1,2,2-Tetrachloroethane	50	NA	49	98	81-131
1,3,5-Trimethylbenzene	50	NA	55	110	89-124
2-Chlorotoluene	50	NA	57	114	84-128
1,2,3-Trichloropropane	50	NA	48	95	76-132
4-Chlorotoluene	50	NA	56	112	86-132
tert-Butylbenzene	50	NA	53	106	82-131
Pentachloroethane	50	NA	53	107	60-140
1,2,4-Trimethylbenzene	50	NA	53	106	88-121
P-Isopropyltoluene	50	NA	53	107	86-122
1,3-Dichlorobenzene	50	NA	54	107	86-124
1,4-Dichlorobenzene	50	NA	52	103	80-127
N-Butylbenzene	50	NA	54	109	81-133
sec-Butylbenzene	50	NA	54	107	85-122
1,2-Dichlorobenzene	50	NA	51	102	86-126
1,2-Dibromo-3-Chloropropane	50	NA	46	93	61-136
1,3,5-Trichlorobenzene	50	NA	48	97	67-128
Hexachlorobutadiene	50	NA	43	86	52-129

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4738-1
Client ID: WG4738-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4738
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	40	81	53-157
1,2,3-Trimethylbenzene	50	NA	55	110	60-140
Naphthalene	50	NA	33	65	45-151
1,2,3-Trichlorobenzene	50	NA	32	65	30-164
Methyl Acetate	50	NA	56	113	60-140
Methylcyclohexane	50	NA	53	107	60-140

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Lab File ID: MB495 BFB Injection Date: 11/22/03

Instrument ID: GCMS-M BFB Injection Time: 0807

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.0
75	30.0 - 60.0% of mass 95	45.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	53.8
175	4.0 - 9.0% of mass 174	4.2 (7.8)1
176	95.0 - 101.0% of mass 174	52.4 (97.5)1
177	5.0 - 9.0% of mass 176	4.2 (8.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS.

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050M22A	M1293	11/22/03	0833
02	WG4754-LCS	WG4754-1	M1294	11/22/03	0915
03	WG4754-BLANK	WG4754-2	M1297	11/22/03	1106
04	TB111103	WT2841-8RA	M1300	11/22/03	1252
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-M Calibration Date: 11/22/03 Time: 0833

Lab File ID: M1293 Init. Calib. Date(s): 11/13/03 11/14/03

Init. Calib. Times: 1731 0004

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Chloromethane	0.6630000	0.2656400	0.2656400	0.1	-59.93		AVRG	
Vinyl chloride	0.5180000	0.5465800	0.5465800	0.01	5.52	20.00	AVRG	
Bromomethane	15.741000	50.000000	7.52e-002	0.01	-68.52		LINR	
Chloroethane	0.3110000	0.2946800	0.2946800	0.01	-5.25		AVRG	
1,1-Dichloroethene	0.3760000	0.3630000	0.3630000	0.1	-3.46	20.00	AVRG	
Methylene Chloride	50.116000	50.000000	0.5634300	0.01	0.23		LINR	
trans-1,2-Dichloroethene	0.5060000	0.5120000	0.5120000	0.01	1.18		AVRG	
Methyl tert-butyl ether	1.3720000	1.3685000	1.3685000	0.01	-0.26		AVRG	
1,1-Dichloroethane	0.9260000	0.9276500	0.9276500	0.1	0.18		AVRG	
cis-1,2-Dichloroethene	0.5620000	0.5623600	0.5623600	0.01	0.06		AVRG	
Chloroform	0.9510000	0.8712400	0.8712400	0.01	-8.39	20.00	AVRG	
Carbon Tetrachloride	0.3390000	0.3255400	0.3255400	0.01	-3.97		AVRG	
1,1,1-Trichloroethane	0.7100000	0.7068900	0.7068900	0.01	-0.44		AVRG	
Benzene	1.1740000	1.1576000	1.1576000	0.01	-1.40		AVRG	
1,2-Dichloroethane	0.4000000	0.3803700	0.3803700	0.01	-4.91		AVRG	
Trichloroethene	0.3290000	0.3184700	0.3184700	0.01	-3.20		AVRG	
1,2-Dichloropropane	0.3230000	0.3105600	0.3105600	0.01	-3.85	20.00	AVRG	
Bromodichloromethane	0.3960000	0.3822100	0.3822100	0.01	-3.48		AVRG	
cis-1,3-dichloropropene	0.4910000	0.4765100	0.4765100	0.01	-2.95		AVRG	
2-Chloroethylvinylether	50.372000	50.000000	0.1526700	0.01	0.74		LINR	
Toluene	0.7200000	0.7037000	0.7037000	0.01	-2.26	20.00	AVRG	
Tetrachloroethene	0.2840000	0.2418600	0.2418600	0.01	-14.84		AVRG	
trans-1,3-Dichloropropene	0.4050000	0.3938900	0.3938900	0.01	-2.74		AVRG	
1,1,2-Trichloroethane	0.2100000	0.2132200	0.2132200	0.01	1.53		AVRG	
Dibromochloromethane	0.3760000	0.3553900	0.3553900	0.01	-5.48		AVRG	
Chlorobenzene	0.9850000	0.9287600	0.9287600	0.3	-5.71		AVRG	
Ethylbenzene	1.6130000	1.5176000	1.5176000	0.01	-5.91	20.00	AVRG	
Xylenes (total)	0.0000000	0.5800200	0.5800200	0.01	0.00		AVRG	<-
m+p-Xylenes	0.6160000	0.5881600	0.5881600	0.01	-4.52		AVRG	

Katahdin Analytical Services 1000069

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-M Calibration Date: 11/22/03 Time: 0833

Lab File ID: M1293 Init. Calib. Date(s): 11/13/03 11/14/03

Init. Calib. Times: 1731 0004

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
o-Xylene	0.6080000	0.5637200	0.5637200	0.01	-7.28		AVRG
Bromoform	45.423000	50.000000	0.2136400	0.1	-9.15		LINR
1,1,2,2-Tetrachloroethane	0.7540000	0.7856300	0.7856300	0.3	4.20		AVRG
Dibromofluoromethane	0.5770000	0.5526900	0.5526900	0.01	-4.21		AVRG
1,2-Dichloroethane-D4	0.5830000	0.5491000	0.5491000	0.01	-5.81		AVRG
Toluene-D8	1.0720000	1.0180000	1.0180000	0.01	-5.04		AVRG
P-Bromofluorobenzene	0.4080000	0.3808400	0.3808400	0.01	-6.66		AVRG

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4754-1
Client ID: WG4754-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4754
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	57		115	4-217
Chloromethane	50	NA	20		41	40-163
Vinyl chloride	50	NA	55		110	55-151
Bromomethane	50	NA	22		43	24-217
Chloroethane	50	NA	49		99	69-134
Trichlorofluoromethane	50	NA	48		97	71-147
Diethyl Ether	50	NA	50		101	67-135
Tertiary-butyl alcohol	250	NA	252		101	58-146
1,1-Dichloroethene	50	NA	56		112	78-136
Carbon Disulfide	50	NA	42		85	70-136
Freon-113	50	NA	53		105	60-140
Iodomethane	50	NA	35		69	60-140
Acrolein	250	NA	320		128	0-199
Methylene Chloride	50	NA	55		109	52-115
Acetone	50	NA	98	*	197	0-158
Isobutyl Alcohol	1000	NA	1130		113	60-140
trans-1,2-Dichloroethene	50	NA	56		111	84-131
Allyl Chloride	50	NA	54		108	60-140
Methyl tert-butyl ether	100	NA	106		106	62-130
Acetonitrile	500	NA	719	*	144	53-141
Di-isopropyl ether	50	NA	53		106	82-130
Chloroprene	50	NA	54		107	60-140
Methacrylonitrile	500	NA	597		119	60-140
Propionitrile	500	NA	875	*	175	60-140
1,1-Dichloroethane	50	NA	56		112	81-134
Acrylonitrile	250	NA	339		136	29-172
Ethyl tertiary-butyl ether	50	NA	53		105	85-124
Vinyl Acetate	50	NA	45		90	68-174
cis-1,2-Dichloroethene	50	NA	53		106	84-123
1,2-Dichloroethylene (total)	100	NA	108		108	84-131
Methyl Methacrylate	50	NA	53		106	60-140
2,2-Dichloropropane	50	NA	62		124	69-150
Bromochloromethane	50	NA	47		94	77-146
Chloroform	50	NA	50		100	80-130
Carbon Tetrachloride	50	NA	52		105	74-137
Tetrahydrofuran	50	NA	76	*	153	32-140
1,1,1-Trichloroethane	50	NA	53		106	76-138
1,1-Dichloropropene	50	NA	53		106	82-120
2-Butanone	50	NA	121	*	242	49-154
Benzene	50	NA	53		105	88-120
Ethyl Methacrylate	50	NA	55		111	60-140
Methyl Acrylate	50	NA	34		68	60-140
Tertiary-amyl methyl ether	50	NA	54		108	85-125
1,2-Dichloroethane	50	NA	51		101	78-138
Trichloroethene	50	NA	51		102	80-125

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4754-1
Client ID: WG4754-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4754
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dibromomethane	50	NA	54		108	88-130
1,2-Dichloropropane	50	NA	51		102	80-122
Bromodichloromethane	50	NA	48		96	83-133
cis-1,3-dichloropropene	50	NA	49		99	81-138
2-Chloroethylvinylether	50	NA	25		50	50-211
Toluene	50	NA	51		102	88-121
4-methyl-2-pentanone	50	NA	61		123	72-140
Tetrachloroethene	50	NA	46		92	77-129
trans-1,3-Dichloropropene	50	NA	51		101	81-149
1,1,2-Trichloroethane	50	NA	52		104	82-126
Dibromochloromethane	50	NA	49		98	80-133
1,3-Dichloropropane	50	NA	51		102	86-125
1,2-Dibromoethane	50	NA	52		104	88-127
2-Hexanone	50	NA	85	*	170	45-146
Chlorobenzene	50	NA	50		100	84-123
Ethylbenzene	50	NA	48		97	84-134
1,1,1,2-Tetrachloroethane	50	NA	49		97	83-130
Xylenes (total)	150	NA	150		100	88-123
m+p-Xylenes	100	NA	100		100	88-122
o-Xylene	50	NA	50		100	90-123
Styrene	50	NA	45		91	87-131
Bromoform	50	NA	47		94	77-138
Isopropylbenzene	50	NA	52		103	88-125
cis-1,4-Dichloro-2-Butene	50	NA	52		104	60-140
trans-1,4-Dichloro-2-Butene	50	NA	53		106	60-140
Bromobenzene	50	NA	49		98	84-133
N-Propylbenzene	50	NA	51		102	88-124
2-bromo-1-chloropropane		NA				60-140
1,1,2,2-Tetrachloroethane	50	NA	56		112	81-131
1,3,5-Trimethylbenzene	50	NA	48		97	89-124
2-Chlorotoluene	50	NA	50		100	84-128
1,2,3-Trichloropropane	50	NA	54		109	76-132
4-Chlorotoluene	50	NA	50		101	86-132
tert-Butylbenzene	50	NA	47		94	82-131
Pentachloroethane	50	NA	56		112	60-140
1,2,4-Trimethylbenzene	50	NA	48		96	88-121
P-Isopropyltoluene	50	NA	48		96	86-122
1,3-Dichlorobenzene	50	NA	50		99	86-124
1,4-Dichlorobenzene	50	NA	50		99	80-127
N-Butylbenzene	50	NA	49		99	81-133
sec-Butylbenzene	50	NA	48		95	85-122
1,2-Dichlorobenzene	50	NA	49		99	86-126
1,2-Dibromo-3-Chloropropane	50	NA	56		111	61-136
1,3,5-Trichlorobenzene	50	NA	53		105	67-128
Hexachlorobutadiene	50	NA	47		93	52-129

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4754-1
Client ID: WG4754-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4754
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	51		102	53-157
1,2,3-Trimethylbenzene	50	NA	52		105	60-140
Naphthalene	50	NA	51		103	45-151
1,2,3-Trichlorobenzene	50	NA	50		99	30-164
Methyl Acetate	50	NA	72	*	144	60-140
Methylcyclohexane	50	NA	50		100	60-140

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Lab File ID: MB496 BFB Injection Date: 11/24/03

Instrument ID: GCMS-M BFB Injection Time: 0708

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.1
75	30.0 - 60.0% of mass 95	43.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	60.8
175	4.0 - 9.0% of mass 174	4.2 (6.9)1
176	95.0 - 101.0% of mass 174	59.9 (98.4)1
177	5.0 - 9.0% of mass 176	3.7 (6.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050A	M1312	11/24/03	0736
02	WG4777-LCS	WG4777-1	M1313	11/24/03	0816
03	WG4777-BLANK	WG4777-2	M1316	11/24/03	1005
04	FC-MW-22-1103MS	WG4777-3	M1328	11/24/03	1645
05	FC-MW-22-1103MSD	WG4777-4	M1329	11/24/03	1717
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Katahdin Analytical Services 1000031

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/24/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4777-1
Client ID: WG4777-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4777
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	48		97	4-217
Chloromethane	50	NA	23		45	40-163
Vinyl chloride	50	NA	49		98	55-151
Bromomethane	50	NA	22		45	24-217
Chloroethane	50	NA	46		91	69-134
Trichlorofluoromethane	50	NA	42		83	71-147
Diethyl Ether	50	NA	45		90	67-135
Tertiary-butyl alcohol	250	NA	226		90	58-146
1,1-Dichloroethene	50	NA	57		115	78-136
Carbon Disulfide	50	NA	44		87	70-136
Freon-113	50	NA	49		99	60-140
Iodomethane	50	NA	32		63	60-140
Acrolein	250	NA	262		105	0-199
Methylene Chloride	50	NA	49		98	52-115
Acetone	50	NA	82	*	164	0-158
Isobutyl Alcohol	1000	NA	819		82	60-140
trans-1,2-Dichloroethene	50	NA	51		102	84-131
Allyl Chloride	50	NA	48		95	60-140
Methyl tert-butyl ether	100	NA	96		96	62-130
Acetonitrile	500	NA	576		115	53-141
Di-isopropyl ether	50	NA	47		94	82-130
Chloroprene	50	NA	47		93	60-140
Methacrylonitrile	500	NA	523		105	60-140
Propionitrile	500	NA	701		140	60-140
1,1-Dichloroethane	50	NA	49		99	81-134
Acrylonitrile	250	NA	289		116	29-172
Ethyl tertiary-butyl ether	50	NA	48		97	85-124
Vinyl Acetate	50	NA	41		82	68-174
cis-1,2-Dichloroethene	50	NA	48		97	84-123
1,2-Dichloroethylene (total)	100	NA	100		100	84-131
Methyl Methacrylate	50	NA	47		94	60-140
2,2-Dichloropropane	50	NA	55		109	69-150
Bromochloromethane	50	NA	46		91	77-146
Chloroform	50	NA	44		89	80-130
Carbon Tetrachloride	50	NA	49		98	74-137
Tetrahydrofuran	50	NA	64		127	32-140
1,1,1-Trichloroethane	50	NA	47		95	76-138
1,1-Dichloropropene	50	NA	48		97	82-120
2-Butanone	50	NA	96	*	192	49-154
Benzene	50	NA	48		96	88-120
Ethyl Methacrylate	50	NA	52		104	60-140
Methyl Acrylate	50	NA	33		66	60-140
Tertiary-amyl methyl ether	50	NA	48		97	85-125
1,2-Dichloroethane	50	NA	46		93	78-138
Trichloroethene	50	NA	47		93	80-125

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/24/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4777-1
Client ID: WG4777-LCS
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4777
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dibromomethane	50	NA	51		102	88-130
1,2-Dichloropropane	50	NA	47		93	80-122
Bromodichloromethane	50	NA	45		91	83-133
cis-1,3-dichloropropene	50	NA	47		95	81-138
2-Chloroethylvinylether	50	NA	20	*	41	50-211
Toluene	50	NA	48		96	88-121
4-methyl-2-pentanone	50	NA	52		105	72-140
Tetrachloroethene	50	NA	45		89	77-129
trans-1,3-Dichloropropene	50	NA	49		99	81-149
1,1,2-Trichloroethane	50	NA	49		99	82-126
Dibromochloromethane	50	NA	50		100	80-133
1,3-Dichloropropane	50	NA	48		96	86-125
1,2-Dibromoethane	50	NA	50		99	88-127
2-Hexanone	50	NA	70		141	45-146
Chlorobenzene	50	NA	50		99	84-123
Ethylbenzene	50	NA	47		95	84-134
1,1,1,2-Tetrachloroethane	50	NA	49		99	83-130
Xylenes (total)	150	NA	145		97	88-123
m+p-Xylenes	100	NA	96		96	88-122
o-Xylene	50	NA	48		97	90-123
Styrene	50	NA	47		93	87-131
Bromoform	50	NA	48		97	77-138
Isopropylbenzene	50	NA	48		96	88-125
cis-1,4-Dichloro-2-Butene	50	NA	55		110	60-140
trans-1,4-Dichloro-2-Butene	50	NA	53		106	60-140
Bromobenzene	50	NA	48		97	84-133
N-Propylbenzene	50	NA	47		95	88-124
2-bromo-1-chloropropane		NA				60-140
1,1,2,2-Tetrachloroethane	50	NA	51		101	81-131
1,3,5-Trimethylbenzene	50	NA	45		90	89-124
2-Chlorotoluene	50	NA	46		93	84-128
1,2,3-Trichloropropane	50	NA	51		101	76-132
4-Chlorotoluene	50	NA	47		94	86-132
tert-Butylbenzene	50	NA	44		88	82-131
Pentachloroethane	50	NA	54		107	60-140
1,2,4-Trimethylbenzene	50	NA	45		90	88-121
P-Isopropyltoluene	50	NA	45		89	86-122
1,3-Dichlorobenzene	50	NA	48		97	86-124
1,4-Dichlorobenzene	50	NA	48		97	80-127
N-Butylbenzene	50	NA	46		91	81-133
sec-Butylbenzene	50	NA	44		87	85-122
1,2-Dichlorobenzene	50	NA	48		96	86-126
1,2-Dibromo-3-Chloropropane	50	NA	44		87	61-136
1,3,5-Trichlorobenzene	50	NA	43		86	67-128
Hexachlorobutadiene	50	NA	43		86	52-129

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date:
Analysis Date: 11/24/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4777-3 & WG4777-4
Client ID: FC-MW-22-1103MS & FC-MW-22-1103MSD
SDG: CTO318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4777
Units: ug/l

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Chloromethane	50	50	0.00	32	27	65	* 54	19	20	60-140
Vinyl chloride	50	50	0.00	60	56	119	113	6	20	60-140
Bromomethane	50	50	0.00	20	17	* 39	* 33	16	20	60-140
Chloroethane	50	50	0.00	54	52	107	103	4	20	60-140
1,1-Dichloroethene	50	50	0.00	64	67	128	135	5	20	44-167
Methylene Chloride	50	50	0.00	53	52	105	104	1	20	60-140
trans-1,2-Dichloroethene	50	50	0.00	57	57	113	114	0.2	20	60-140
Methyl tert-butyl ether	100	100	0.00	108	98	108	98	10	20	60-140
1,1-Dichloroethane	50	50	0.00	55	54	110	107	3	20	60-140
cis-1,2-Dichloroethene	50	50	0.00	52	51	104	102	2	20	60-140
Chloroform	50	50	0.35	48	48	96	95	1	20	60-140
Carbon Tetrachloride	50	50	0.00	55	56	111	111	0.4	20	60-140
1,1,1-Trichloroethane	50	50	0.00	55	54	110	108	[illegible]	[illegible]	[illegible]
Benzene	50	50	0.00	53	52	105	104	2	20	64 [illegible]
1,2-Dichloroethane	50	50	0.00	50	49	101	98	3	20	[illegible]
Trichloroethene	50	50	0.00	50	49	99	98	[illegible]	[illegible]	[illegible]
1,2-Dichloropropane	50	50	0.00	50	49	101	98	[illegible]	[illegible]	[illegible]
Bromodichloromethane	50	50	0.00	47	46	94	93	1	20	60-140
cis-1,3-dichloropropene	50	50	0.00	49	48	98	95	3	20	60-140
2-Chloroethylvinylether	50	50	0.00	0.0	0.0	* 0	* 0		20	60-140
Toluene	50	50	3.1	52	51	98	95	3	20	65-142
Tetrachloroethene	50	50	0.00	46	47	92	93	2	20	60-140
trans-1,3-Dichloropropene	50	50	0.00	50	48	101	96	5	20	60-140
1,1,2-Trichloroethane	50	50	0.00	124	117	* 248	* 234	6	20	60-140
Dibromochloromethane	50	50	0.00	49	49	97	97	0.0	20	60-140
Chlorobenzene	50	50	0.00	50	49	99	98	0.8	20	68-140
Ethylbenzene	50	50	0.52	91	90	* 181	* 178	2	20	60-140
Xylenes (total)	150	150	0.00	158	157	105	105	0.6	20	60-140
m+p-Xylenes	100	100	0.32	108	107	108	107	0.9	20	60-140
o-Xylene	50	50	0.00	50	50	100	101	[illegible]	[illegible]	[illegible]
Bromoform	50	50	0.00	48	46	95	91	4	20	60-140
1,1,2,2-Tetrachloroethane	50	50	0.00	56	53	113	105	7	20	60-140

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

GC Column: SPB 608 ID: 0.53 (mm) Init. Calib. Date(s): 11/25/03 11/25/03

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 11.72

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	RT	#
01	ICAL	ICAL 0.02PPM	11/25/03	0939	11.72			
02	ICAL	ICAL 0.05PPM	11/25/03	0957	11.72			
03	ICAL	ICAL 0.10PPM	11/25/03	1015	11.72			
04	ICAL	ICAL 0.25PPM	11/25/03	1034	11.72			
05	ICAL	ICAL 0.50PPM	11/25/03	1052	11.72			
06	ICAL	ICAL 1.0PPM	11/25/03	1110	11.71			
07	ICAL	ICAL 2.5PPM	11/25/03	1128	11.69			
08	WG4775-BLANK	WG4775-1	11/25/03	1147	11.69			
09	WG4775-LCS	WG4775-2	11/25/03	1205	11.71			
10	WG4775-LCSD	WG4775-3	11/25/03	1223	11.69			
11	CV	DBCM	11/25/03	1241	11.71			
12	CV	QC 0.25PPM	11/25/03	1300	11.69			
13	CV	MDL	11/25/03	1318	11.69			
14	FC-MW-06-110	WT2841-1	11/25/03	1336	11.69			
15	KWDUP-01-110	WT2841-2	11/25/03	1354	11.69			
16	FC-MW-05-110	WT2841-4	11/25/03	1413	11.69			
17	FC-MW-22-110	WT2841-6	11/25/03	1431	11.68			
18	FC-MW-22-110	WG4775-4	11/25/03	1449	11.68			
19	FC-MW-22-110	WG4775-5	11/25/03	1507	11.68			
20	CV	CV 0.5PPM	11/25/03	1544	11.72			

QC LIMITS
TCX = Tetrachloro-M-Xylene (+/- 0.24 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Katahdin Analytical Services 9000008

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

GC Column: RTX-CLP II ID: 0.53 (mm) Init. Calib. Date(s): 11/25/03 11/25/03

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 11.00

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	RT #
01	ICAL	ICAL 0.02PPM	11/25/03	0939	11.03	
02	ICAL	ICAL 0.05PPM	11/25/03	0957	11.04	
03	ICAL	ICAL 0.10PPM	11/25/03	1015	11.03	
04	ICAL	ICAL 0.25PPM	11/25/03	1034	11.04	
05	ICAL	ICAL 0.50PPM	11/25/03	1052	11.03	
06	ICAL	ICAL 1.0PPM	11/25/03	1110	11.00	
07	ICAL	ICAL 2.5PPM	11/25/03	1128	10.99	
08	WG4775-BLANK	WG4775-1	11/25/03	1147	11.00	
09	WG4775-LCS	WG4775-2	11/25/03	1205	11.00	
10	WG4775-LCSD	WG4775-3	11/25/03	1223	11.00	
11	CV	DBCM	11/25/03	1241	11.00	
12	CV	QC 0.25PPM	11/25/03	1300	11.00	
13	CV	MDL	11/25/03	1318	11.00	
14	FC-MW-06-110	WT2841-1	11/25/03	1336	11.00	
15	KWDUP-01-110	WT2841-2	11/25/03	1354	11.00	
16	FC-MW-05-110	WT2841-4	11/25/03	1413	11.00	
17	FC-MW-22-110	WT2841-6	11/25/03	1431	10.99	
18	FC-MW-22-110	WG4775-4	11/25/03	1449	10.99	
19	FC-MW-22-110	WG4775-5	11/25/03	1507	10.99	
20	CV	CV 0.5PPM	11/25/03	1544	11.03	

QC LIMITS
TCX = Tetrachloro-M-Xylene (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Katahdin Analytical Services 9000009

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

GC Column(1): SPB 608 ID: 0.53 (mm)GC Column(2): RTX-CLP IIID: 0.53 (mm)

	CLIENT SAMPLE ID	LAB SAMPLE ID	TCX1 REC#	TCX2 REC#	S2 1 REC#	S2 2 REC#	S3 1 REC#	S3 2 REC#	TOT OUT
01	WG4775-BLANK	WG4775-1	141*	152*					2
02	WG4775-LCS	WG4775-2	148*	152*					2
03	WG4775-LCSD	WG4775-3	151*	164*					2
04	FC-MW-06-1103	WT2841-1	152*	160*					2
05	KWDUP-01-1103	WT2841-2	160*	169*					2
06	FC-MW-05-1103	WT2841-4	132*	133*					2
07	FC-MW-22-1103	WT2841-6	162*	162*					2
08	FC-MW-22-1103MS	WG4775-4	182*	185*					2
09	FC-MW-22-1103MSD	WG4775-5	191*	197*					2
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									

ADVISORY
QC LIMITS
S1 (TCX) = Tetrachloro-M-Xylene (57-128)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

Katahdin Analytical Services 9000003

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/24/03
Analysis Date: 11/25/03
Report Date: 11/26/2003
Matrix: WATER

Lab ID: WG4775-2 & WG4775-3
Client ID: WG4775-LCS & WG4775-LCSD
SDG: CTO318-1
Extracted by: LRS
Extraction Method: 504.1
Analyst: LRS
Analysis Method: EPA 504.1
Lab Prep Batch: WG4775
Units: ug/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.		LCSD %REC.		%RPD	%RPD LIMIT	QC. LIMITS
1,2-Dibromoethane	0.25	0.25	NA	0.19	0.35	77	*	141	*	58	30	70-130

FORM III PEST-1

3tk1057.d & 3tk1058.d

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/24/03
Analysis Date: 11/25/03
Report Date: 12/05/2003
Matrix: WATER

Lab ID: WG4775-4 & WG4775-5
Client ID: FC-MW-22-1103MS & FC-MW-22-1103MSD
SDG: CTO318-1
Extracted by: LRS
Extraction Method: 504.1
Analyst: LRS
Analysis Method: EPA 504.1
Lab Prep Batch: WG4775
Units: ug/L

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
1,2-Dibromoethane	0.23	0.24	0.00	0.32	0.37	* 139	* 155	12	30	70-130

FORM III VOA-1

3tk1066.d & 3tk1067.d

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Lab File ID: UD528 DFTPP Injection Date: 11/12/03

Instrument ID: GCMS-U DFTPP Injection Time: 1145

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	31.9
68	Less than 2.0% of mass 69	0.9 (1.7)1
69	Less than 100.0% of mass 198	53.7
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	40.0 - 60.0% of mass 198	51.5
197	Less than 1.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.2
275	10.0 - 30.0% of mass 198	22.5
365	1.0 - 100.0% of mass 198	2.7
441	0.0 - 100.0% of mass 443	8.5 (54.6)2
442	40.0 - 100.0% of mass 198	77.8
443	17.0 - 23.0% of mass 442	15.5 (20.0)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050U1112	U5287	11/12/03	1204
02		SSTD200U1112	U5288	11/12/03	1255
03		SSTD010U1112	U5289	11/12/03	1340
04		SSTD020U1112	U5290	11/12/03	1425
05		SSTD120U1112	U5291	11/12/03	1511
06		SSTD160U1112	U5292	11/12/03	1555
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM V SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-U Calibration Date(s): 11/12/03 11/12/03

Column: RTX-5SILMS ID: 0.25 (mm) Calibration Time(s): 1204 1555

LAB FILE ID: RF10: U5289 RF20: U5290 RF50: U5287
RF120: U5291 RF160: U5292 RF200: U5288

COMPOUND	RF10	RF20	RF50	RF120	RF160	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2	
Phenol	1.385	1.574	1.609	1.449	1.575	1.440	AVRG		1.50539	6.114	15.000	
Bis(2-Chloroethyl)ether	1.081	1.239	1.209	1.125	1.177	1.097	AVRG		1.15459	5.507	15.000	
2-Chlorophenol	1.162	1.268	1.232	1.112	1.172	1.092	AVRG		1.17288	5.744	15.000	
1,3-Dichlorobenzene	1.345	1.425	1.353	1.247	1.298	1.182	AVRG		1.30835	6.550	15.000	
1,4-Dichlorobenzene	1.304	1.442	1.377	1.256	1.298	1.172	AVRG		1.30817	7.167	15.000	
1,2-Dichlorobenzene	1.242	1.338	1.278	1.154	1.187	1.065	AVRG		1.21069	7.990	15.000	
2-Methylphenol	1.030	1.122	1.130	1.018	1.117	1.082	AVRG		1.08305	4.516	15.000	
2,2'-Oxybis(1-Chloropropane)	1.060	1.107	1.042	0.945	1.011	0.951	AVRG		1.01928	6.217	15.000	
4-Methylphenol	1.027	1.178	1.164	1.040	1.148	1.105	AVRG		1.11022	5.826	15.000	
N-Nitroso-di-n-propylamine	0.958	1.066	1.020	0.924	0.986	0.867	AVRG		0.97012	7.250	15.000	
Hexachloroethane	0.537	0.592	0.545	0.514	0.530	0.467	AVRG		0.53083	7.665	15.000	
Nitrobenzene	0.347	0.391	0.374	0.369	0.411	0.380	AVRG		0.37887	5.716	15.000	
Isophorone	0.608	0.657	0.640	0.618	0.696	0.665	AVRG		0.64746	4.998	15.000	
2-Nitrophenol	0.133	0.164	0.170	0.165	0.178	0.171	AVRG		0.16372	9.650	15.000	
2,4-Dimethylphenol	0.282	0.320	0.327	0.304	0.337	0.327	AVRG		0.31634	6.3[illegible]	[illegible]	
Bis(2-Chloroethoxy)methane	0.351	0.385	0.378	0.364	0.401	0.372	AVRG		0.37524	[illegible]	[illegible]	
2,4-Dichlorophenol	0.212	0.252	0.253	0.243	0.258	0.239	AVRG		0.24265	6.[illegible]	15.[illegible]	
1,2,4-Trichlorobenzene	0.265	0.287	0.269	0.256	0.268	0.244	AVRG		0.26503	5.451	15.000	
Naphthalene	0.947	1.009	0.890	0.879	0.912	0.761	AVRG		0.89980	9.182	15.000	
4-Chloroaniline	0.276	0.331	0.336	0.294	0.294	0.317	AVRG		0.30819	7.658	15.000	
Hexachlorobutadiene	0.130	0.139	0.127	0.122	0.130	0.116	AVRG		0.12750	6.088	15.000	
4-Chloro-3-Methylphenol	0.218	0.254	0.264	0.218	0.245	0.242	AVRG		0.24038	7.777	15.000	
2-Methylnaphthalene	0.537	0.589	0.574	0.537	0.565	0.542	AVRG		0.55740	3.933	15.000	
Hexachlorocyclopentadiene	0.193	0.239	0.263	0.257	0.282	0.257	AVRG		0.24863	12.326	15.000	
2,4,6-Trichlorophenol	0.258	0.296	0.298	0.283	0.303	0.287	AVRG		0.28771	5.626	15.000	
2,4,5-Trichlorophenol	0.249	0.298	0.322	0.313	0.334	0.307	AVRG		0.30382	9.722	15.000	
2-Chloronaphthalene	0.928	0.986	0.897	0.819	0.811	0.721	AVRG		0.86050	11.075	15.000	
2-Nitroaniline	0.241	0.281	0.312	0.306	0.335	0.328	AVRG		0.30061	11.560	15.000	
Dimethyl Phthalate	1.006	1.089	1.017	0.996	1.028	0.973	AVRG		1.01817	3.80[illegible]	[illegible]	
Acenaphthylene	1.618	1.753	1.522	1.511	1.545	1.318	AVRG		1.54441	9.2[illegible]	[illegible]	
2,6-Dinitrotoluene	0.218	0.243	0.235	0.236	0.245	0.233	AVRG		0.23502	4.003	15.000	
3-Nitroaniline	0.173	0.213	0.234	0.226	0.222	0.235	AVRG		0.21713	10.696	15.000	
Acenaphthene	1.029	1.079	0.932	0.941	0.965	0.807	AVRG		0.95913	9.719	15.000	
2,4-Dinitrophenol	0.016	0.069	0.131	0.142	0.158	0.168	AVRG		0.11411	51.978	15.000	<-
4-Nitrophenol	25700	66368	223840	458210	683610	1036500	LINR	0.15084	6.38620	0.99855	0.99000	
Dibenzofuran	1.259	1.348	1.269	1.194	1.214	1.120	AVRG		1.23400	6.283	15.000	
2,4-Dinitrotoluene	0.280	0.322	0.323	0.328	0.325	0.323	AVRG		0.31682	5.668	15.000	
Diethylphthalate	3.816	2.220	1.708	1.159	1.062	1.194	AVRG		1.85952	56.660	15.000	<-
4-Chlorophenyl-phenylether	0.445	0.478	0.444	0.440	0.444	0.405	AVRG		0.44272	5.216	15.000	
Fluorene	1.121	1.200	1.052	1.089	1.077	0.919	AVRG		1.07623	8.600	15.000	
4-Nitroaniline	41046	95856	362590	703290	964380	1558200	LINR	0.12691	4.32641	0.99423	0.99000	
4,6-Dinitro-2-Methylphenol	25933	72263	303730	602980	881310	1324500	LINR	0.17137	7.51406	0.99842	0.99000	
N-Nitrosodiphenylamine	0.449	0.490	0.468	0.441	0.473	0.423	AVRG		0.45729	5.302	15.000	
4-Bromophenyl-phenylether	0.146	0.160	0.151	0.146	0.157	0.140	AVRG		0.15009	5.141	15.000	

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-U Calibration Date(s): 11/12/03 11/12/03

Column: RTX-5SILMS ID: 0.25 (mm) Calibration Time(s): 1204 1555

LAB FILE ID: RF10: U5289 RF20: U5290 RF50: U5287
RF120: U5291 RF160: U5292 RF200: U5288

COMPOUND	RF10	RF20	RF50	RF120	RF160	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
Hexachlorobenzene	0.165	0.173	0.159	0.150	0.161	0.146	AVRG		0.15908	6.071	15.000
Pentachlorophenol	27092	76487	271480	527790	732140	1068100	LINR	7e-002	9.33988	0.99891	0.99000
Phenanthrene	1.008	1.076	0.925	0.923	0.955	0.800	AVRG		0.94785	9.801	15.000
Anthracene	0.973	1.025	0.922	0.913	0.953	0.804	AVRG		0.93180	7.967	15.000
Carbazole	0.756	0.802	0.787	0.755	0.773	0.721	AVRG		0.76573	3.718	15.000
Di-n-butylphthalate	1.046	1.125	1.041	1.012	0.988	0.891	AVRG		1.01718	7.593	15.000
Fluoranthene	0.970	0.999	0.873	0.904	0.889	0.768	AVRG		0.90052	9.033	15.000
Pyrene	1.603	1.563	1.289	1.352	1.368	1.220	AVRG		1.39946	10.875	15.000
Butylbenzylphthalate	0.730	0.719	0.641	0.656	0.672	0.637	AVRG		0.67587	5.861	15.000
3,3'-Dichlorobenzidine	0.209	0.225	0.236	0.206	0.230	0.221	AVRG		0.22129	5.398	15.000
Benzo(a)anthracene	1.122	1.148	0.990	1.055	1.122	0.997	AVRG		1.07226	6.362	15.000
Chrysene	1.076	1.110	0.915	0.958	1.015	0.884	AVRG		0.99310	9.044	15.000
bis(2-Ethylhexyl)phthalate	0.948	0.983	0.900	0.908	0.910	0.851	AVRG		0.91668	4.898	15.000
Di-n-octylphthalate	1.736	1.953	1.822	2.024	1.829	1.790	AVRG		1.85893	5.7[illegible]	15.[illegible]
Benzo(b)fluoranthene	1.137	1.307	1.129	1.243	1.279	1.199	AVRG		1.21570	6.08[illegible]	[illegible]
Benzo(k)fluoranthene	1.325	1.396	1.160	1.262	1.249	1.092	AVRG		1.24738	8.[illegible]	[illegible]
Benzo(a)pyrene	0.924	1.030	0.975	1.048	1.110	0.988	AVRG		1.01269	6.3[illegible]	[illegible]
Indeno(1,2,3-cd)pyrene	0.586	0.673	0.750	0.768	0.898	0.789	AVRG		0.74387	14.274	15.000
Dibenzo(a,h)anthracene	0.598	0.653	0.730	0.746	0.865	0.760	AVRG		0.72519	12.715	15.000
Benzo(g,h,i)perylene	0.845	0.943	0.895	0.867	0.940	0.814	AVRG		0.88402	5.868	15.000
2-Fluorophenol	0.905	1.076	1.051	1.047	1.138	1.030	AVRG		1.04127	7.371	15.000
Phenol-D6	1.318	1.517	1.426	1.345	1.466	1.329	AVRG		1.40014	5.836	15.000
Nitrobenzene-D5	0.349	0.384	0.376	0.370	0.412	0.383	AVRG		0.37919	5.474	15.000
2-Fluorobiphenyl	1.069	1.166	1.036	1.000	1.029	0.896	AVRG		1.03268	8.528	15.000
2,4,6-Tribromophenol	0.100	0.118	0.116	0.122	0.119	0.110	AVRG		0.11411	6.742	15.000
Terphenyl-D14	0.928	0.894	0.764	0.785	0.804	0.746	AVRG		0.82018	9.004	15.000

Average %RSD test result.

Calculate Average %RSD: 9.487401009
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM VI SV

FORM 2
WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 2FP#	S2 PHL#	S3 NBZ#	S4 FBP#	S5 TBP#	S6 TPH#	S7 #	S8 #	TOT OUT
01	WG4553-BLANK	WG4553-1	78	90	84	88	96	126			0
02	WG4553-LCS	WG4553-2	76	88	79	85	99	110			0
03	WG4553-LCSD	WG4553-3	58	72	86	89	92	98			0
04	KW-RINS-01-1103	WT2841-5	7*	39	0*	83	31	126			2
05	KW-RINS-01-1103	WT2841-5RE	1*	14	18*	93	38	104			2
06	WG4766-LCS	WG4766-2	77	83	88	91	98	98			0
07	WG4766-LCSD	WG4766-3	82	86	80	85	94	90			0
08	WG4766-BLANK	WG4766-1	25	26	68	76	26	98			0
09											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

	QC LIMITS
S1 (2FP) = 2-Fluorophenol	(20- 95)
S2 (PHL) = Phenol-D6	(10-115)
S3 (NBZ) = Nitrobenzene-D5	(36-117)
S4 (FBP) = 2-Fluorobiphenyl	(47-114)
S5 (TBP) = 2,4,6-Tribromophenol	(20-137)
S6 (TPH) = Terphenyl-D14	(35-126)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Lab File ID: UD535 DFTPP Injection Date: 11/20/03

Instrument ID: GCMS-U DFTPP Injection Time: 1319

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.0
68	Less than 2.0% of mass 69	0.3 (0.5)1
69	Less than 100.0% of mass 198	58.5
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	40.0 - 60.0% of mass 198	53.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	20.9
365	1.0 - 100.0% of mass 198	2.6
441	0.0 - 100.0% of mass 443	11.2 (77.8)2
442	40.0 - 100.0% of mass 198	71.9
443	17.0 - 23.0% of mass 442	14.4 (20.0)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS.

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050U1120	U5386	11/20/03	1402
02	WG4553-BLANK	WG4553-1	U5392	11/20/03	1833
03	WG4553-LCS	WG4553-2	U5393	11/20/03	1917
04	WG4553-LCSD	WG4553-3	U5394	11/20/03	2002
05	KW-RINS-01-1103	WT2841-5	U5395	11/20/03	2047
06					
07					
08					
09					
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15					
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18					
19					
20					

FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-U Calibration Date: 11/20/03 Time: 1402

Lab File ID: U5386 Init. Calib. Date(s): 11/12/03 11/12/03

Init. Calib. Times: 1204 1555

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Phenol	1.5050000	1.5147000	1.5147000	0.01	0.64	20.00	AVRG
Bis(2-Chloroethyl)ether	1.1550000	1.1781000	1.1781000	0.01	2.00	100.00	AVRG
2-Chlorophenol	1.1730000	1.1888000	1.1888000	0.01	1.35	100.00	AVRG
1,3-Dichlorobenzene	1.3080000	1.3183000	1.3183000	0.01	0.79	100.00	AVRG
1,4-Dichlorobenzene	1.3080000	1.3351000	1.3351000	0.01	2.07	20.00	AVRG
1,2-Dichlorobenzene	1.2110000	1.2390000	1.2390000	0.01	2.31	100.00	AVRG
2-Methylphenol	1.0830000	1.0792000	1.0792000	0.01	-0.35	100.00	AVRG
2,2'-Oxybis(1-Chloropropane)	1.0190000	0.9845700	0.9845700	0.01	-3.38	100.00	AVRG
4-Methylphenol	1.1100000	1.1151000	1.1151000	0.01	0.46	100.00	AVRG
N-Nitroso-di-n-propylamine	0.9700000	0.9800200	0.9800200	0.05	1.03	100.00	AVRG
Hexachloroethane	0.5310000	0.5489500	0.5489500	0.01	3.38	100.00	AVRG
Nitrobenzene	0.3790000	0.3775500	0.3775500	0.01	-0.38	100.00	AVRG
Isophorone	0.6470000	0.6464500	0.6464500	0.01	-0.08	100.00	AVRG
2-Nitrophenol	0.1640000	0.1726700	0.1726700	0.01	5.29	20.00	AVRG
2,4-Dimethylphenol	0.3160000	0.3257100	0.3257100	0.01	3.07	100.00	AVRG
Bis(2-Chloroethoxy)methane	0.3750000	0.3792900	0.3792900	0.01	1.14	100.00	AVRG
2,4-Dichlorophenol	0.2430000	0.2523400	0.2523400	0.01	3.84	20.00	AVRG
1,2,4-Trichlorobenzene	0.2650000	0.2763600	0.2763600	0.01	4.29	100.00	AVRG
Naphthalene	0.9000000	0.9006200	0.9006200	0.01	0.07	100.00	AVRG
4-Chloroaniline	0.3080000	0.3117100	0.3117100	0.01	1.20	100.00	AVRG
Hexachlorobutadiene	0.1270000	0.1315000	0.1315000	0.01	3.54	20.00	AVRG
4-Chloro-3-Methylphenol	0.2400000	0.2647200	0.2647200	0.01	10.30	20.00	AVRG
2-Methylnaphthalene	0.5570000	0.5736800	0.5736800	0.01	2.99	100.00	AVRG
Hexachlorocyclopentadiene	0.2480000	0.2609400	0.2609400	0.05	5.22	100.00	AVRG
2,4,6-Trichlorophenol	0.2880000	0.2925500	0.2925500	0.01	1.58	20.00	AVRG
2,4,5-Trichlorophenol	0.3040000	0.3075600	0.3075600	0.01	1.17	100.00	AVRG
2-Chloronaphthalene	0.8600000	0.8769900	0.8769900	0.01	1.98	100.00	AVRG
2-Nitroaniline	0.3000000	0.2867100	0.2867100	0.01	-4.43	100.00	AVRG
Dimethyl Phthalate	1.0180000	0.9882000	0.9882000	0.01	-2.93	100.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-U Calibration Date: 11/20/03 Time: 1402

Lab File ID: U5386 Init. Calib. Date(s): 11/12/03 11/12/03

Init. Calib. Times: 1204 1555

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Acenaphthylene	1.5440000	1.4943000	1.4943000	0.01	-3.22	100.00	AVRG
2,6-Dinitrotoluene	0.2350000	0.2296100	0.2296100	0.01	-2.29	100.00	AVRG
3-Nitroaniline	0.2170000	0.1980700	0.1980700	0.01	-8.72	100.00	AVRG
Acenaphthene	0.9590000	0.9204000	0.9204000	0.01	-4.02	20.00	AVRG
2,4-Dinitrophenol	0.1140000	0.1204300	0.1204300	0.05	5.64	100.00	AVRG
4-Nitrophenol	43.205000	50.000000	0.1164100	0.05	-13.59	100.00	LINR
Dibenzofuran	1.2340000	1.2228000	1.2228000	0.01	-0.91	100.00	AVRG
2,4-Dinitrotoluene	0.3170000	0.3002600	0.3002600	0.01	-5.28	100.00	AVRG
Diethylphthalate	1.8600000	0.9880300	0.9880300	0.01	-46.88	100.00	AVRG
4-Chlorophenyl-phenylether	0.4430000	0.4365000	0.4365000	0.01	-1.47	100.00	AVRG
Fluorene	1.0760000	1.0298000	1.0298000	0.01	-4.29	100.00	AVRG
4-Nitroaniline	43.273000	50.000000	0.1765800	0.01	-13.45	100.00	LINR
4,6-Dinitro-2-Methylphenol	50.014000	50.000000	0.1148800	0.01	0.03	100.00	LINR
N-Nitrosodiphenylamine	0.4570000	0.4650600	0.4650600	0.01	1.76	20.00	AVRG
4-Bromophenyl-phenylether	0.1500000	0.1522500	0.1522500	0.01	1.50	100.00	AVRG
Hexachlorobenzene	0.1590000	0.1617000	0.1617000	0.01	1.70	100.00	AVRG
Pentachlorophenol	50.652000	50.000000	0.1028200	0.01	1.30	20.00	LINR
Phenanthrene	0.9480000	0.9040400	0.9040400	0.01	-4.64	100.00	AVRG
Anthracene	0.9320000	0.9038100	0.9038100	0.01	-3.02	100.00	AVRG
Carbazole	0.7660000	0.7274400	0.7274400	0.01	-5.03	100.00	AVRG
Di-n-butylphthalate	1.0170000	1.0416000	1.0416000	0.01	2.42	100.00	AVRG
Fluoranthene	0.9000000	0.8189900	0.8189900	0.01	-9.00	20.00	AVRG
Pyrene	1.3990000	1.3093000	1.3093000	0.01	-6.41	100.00	AVRG
Butylbenzylphthalate	0.6760000	0.6567700	0.6567700	0.01	-2.84	100.00	AVRG
3,3'-Dichlorobenzidine	0.2210000	0.1972300	0.1972300	0.01	-10.76	100.00	AVRG
Benzo(a)anthracene	1.0720000	0.9802900	0.9802900	0.01	-8.56	100.00	AVRG
Chrysene	0.9930000	0.9083900	0.9083900	0.01	-8.52	100.00	AVRG
bis(2-Ethylhexyl)phthalate	0.9170000	0.9474000	0.9474000	0.01	3.32	100.00	AVRG
Di-n-octylphthalate	1.8590000	1.7753000	1.7753000	0.01	-4.50	20.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-U Calibration Date: 11/20/03 Time: 1402

Lab File ID: U5386 Init. Calib. Date(s): 11/12/03 11/12/03

Init. Calib. Times: 1204 1555

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Benzo(b)fluoranthene	1.2160000	1.0965000	1.0965000	0.01	-9.83	100.00	AVRG
Benzo(k)fluoranthene	1.2470000	1.1350000	1.1350000	0.01	-8.98	100.00	AVRG
Benzo(a)pyrene	1.0120000	0.9551000	0.9551000	0.01	-5.62	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.7440000	0.7510700	0.7510700	0.01	0.95	100.00	AVRG
Dibenzo(a,h)anthracene	0.7250000	0.7116800	0.7116800	0.01	-1.84	100.00	AVRG
Benzo(g,h,i)perylene	0.8840000	0.8802700	0.8802700	0.01	-0.42	100.00	AVRG
2-Fluorophenol	1.0410000	1.0402000	1.0402000	0.01	-0.08	100.00	AVRG
Phenol-D6	1.4000000	1.3490000	1.3490000	0.01	-3.64	100.00	AVRG
Nitrobenzene-D5	0.3790000	0.3768200	0.3768200	0.01	-0.58	100.00	AVRG
2-Fluorobiphenyl	1.0330000	1.0284000	1.0284000	0.01	-0.44	100.00	AVRG
2,4,6-Tribromophenol	0.1140000	0.1085900	0.1085900	0.01	-4.74	100.00	AVRG
Terphenyl-D14	0.8200000	0.7792300	0.7792300	0.01	-4.97	100.00	AVRG

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/15/03
Analysis Date: 11/20/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4553-2 & WG4553-3
Client ID: WG4553-LCS & WG4553-LCSD
SDG: CTO318-1
Extracted by: NB
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG4553
Units: ug/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.		LCSD %REC.		%RPD	%RPD LIMIT	QC. LIMITS
Phenol	100	100	NA	72	61	72		61		18	30	12-126
Bis(2-Chloroethyl)ether	50	50	NA	40	40	79		80		2	30	52-115
2-Chlorophenol	100	100	NA	70	60	70		60		14	30	46-114
1,3-Dichlorobenzene	50	50	NA	26	30	52		60		14	30	40- 99
1,4-Dichlorobenzene	50	50	NA	27	31	55		62		12	30	40- 99
1,2-Dichlorobenzene	50	50	NA	30	33	59		66		10	30	44-101
2-Methylphenol	100	100	NA	76	75	76		75		1	30	50-110
2,2'-Oxybis(1-Chloropropane)	50	50	NA	37	35	74		70		5	30	54-114
4-Methylphenol	100	100	NA	82	76	82		76		6	30	46-119
N-Nitroso-di-n-propylamine	50	50	NA	37	38	75		75		0.8	30	52-108
Hexachloroethane	50	50	NA	22	26	43		52		20	30	30- 99
Nitrobenzene	50	50	NA	34	36	68		73		8	30	49-11?
Isophorone	50	50	NA	36	37	71		74		4	30	41-106
2-Nitrophenol	100	100	NA	70	34	70	*	34	*	69	30	47-121
2,4-Dimethylphenol	100	100	NA	70	73	70		73		[illegible]	[illegible]	45-[illegible]
Bis(2-Chloroethoxy)methane	50	50	NA	36	39	72		78		[illegible]	[illegible]	[illegible]
2,4-Dichlorophenol	100	100	NA	73	67	73		67		[illegible]	30	48-115
1,2,4-Trichlorobenzene	50	50	NA	28	33	57		66		15	30	39-105
Naphthalene	50	50	NA	33	36	66		72		9	30	46-110
4-Chloroaniline	50	50	NA	44	49	87		97		11	30	19-125
Hexachlorobutadiene	50	50	NA	24	29	47		58		21	30	28-109
4-Chloro-3-Methylphenol	100	100	NA	85	73	85		73		16	30	52-121
2-Methylnaphthalene	50	50	NA	40	44	80		88		9	30	51-108
Hexachlorocyclopentadiene	50	50	NA	16	17	31		33		7	30	0- 90
2,4,6-Trichlorophenol	100	100	NA	74	68	74		68		9	30	51-120
2,4,5-Trichlorophenol	100	100	NA	75	65	75		65		15	30	53-120
2-Chloronaphthalene	50	50	NA	41	46	82		91		11	30	44-156
2-Nitroaniline	50	50	NA	44	46	87		91		4	30	53-127
Dimethyl Phthalate	50	50	NA	42	42	83		84		[illegible]	[illegible]	[illegible]
Acenaphthylene	50	50	NA	35	37	70		74		[illegible]	[illegible]	51-10[illegible]
2,6-Dinitrotoluene	50	50	NA	41	42	83		84		2	30	51-120
3-Nitroaniline	50	50	NA	48	50	96		101		5	30	48-124
Acenaphthene	50	50	NA	36	38	72		75		5	30	52-113
2,4-Dinitrophenol	100		NA	80		80					30	22-155
4-Nitrophenol	100		NA	65		65					30	6-132
Dibenzofuran	50	50	NA	44	45	87		91		4	30	54-111
2,4-Dinitrotoluene	50	50	NA	40	40	80		79		0.8	30	50-119
Diethylphthalate	50	50	NA	23	23	46		46		0.9	30	31-129
4-Chlorophenyl-phenylether	50	50	NA	40	41	80		82		3	30	56-115
Fluorene	50	50	NA	38	40	77		79		3	30	56-115
4-Nitroaniline	50	50	NA	43	46	86		92		7	30	50-137
4,6-Dinitro-2-Methylphenol	100	100	NA	82	10	82	*	10	*	160	30	43-151
N-Nitrosodiphenylamine	100	100	NA	86	86	86		86		0.7	30	67-131
4-Bromophenyl-phenylether	50	50	NA	44	44	87		88		0.2	30	59-118
Hexachlorobenzene	50	50	NA	42	41	84		83		2	30	55-116

Katahdin Analytical Services 2000010

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/15/03
Analysis Date: 11/20/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4553-2 & WG4553-3
Client ID: WG4553-LCS & WG4553-LCSD
SDG: CTO318-1
Extracted by: NB
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG4553
Units: ug/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.		LCSD %REC.		%RPD	%RPD LIMIT	QC. LIMITS
Pentachlorophenol	100	100	NA	78	21	78	*	21	*	120	30	38-148
Phenanthrene	50	50	NA	40	41	81		82		1	30	56-117
Anthracene	50	50	NA	40	41	81		82		0.7	30	56-117
Carbazole	50	50	NA	45	48	91		96		6	30	63-133
Di-n-butylphthalate	50	50	NA	46	46	92		92		0.2	30	43-136
Fluoranthene	50	50	NA	37	40	75		79		6	30	51-129
Pyrene	50	50	NA	43	39	85		79		8	30	46-133
Butylbenzylphthalate	50	50	NA	45	42	91		85		7	30	31-156
3,3'-Dichlorobenzidine	50	50	NA	88	97	176	*	195	*	10	30	30-128
Benzo(a)anthracene	50	50	NA	37	38	73		76		3	30	54-118
Chrysene	50	50	NA	33	34	66		68		4	30	57-119
bis(2-Ethylhexyl)phthalate	50	50	NA	104	47	208	*	93	*	76	30	43-151
Di-n-octylphthalate	50	50	NA	49	45	98		90		8	30	42-166
Benzo(b)fluoranthene	50	50	NA	39	39	78		77		0.2	30	48-129
Benzo(k)fluoranthene	50	50	NA	38	39	77		78		[illegible]	[illegible]	[illegible]
Benzo(a)pyrene	50	50	NA	39	40	78		80		[illegible]	[illegible]	[illegible]
Indeno(1,2,3-cd)pyrene	50	50	NA	38	38	77		75		[illegible]	[illegible]	[illegible]
Dibenzo(a,h)anthracene	50	50	NA	38	38	76		75		0.8	30	45-118
Benzo(g,h,i)perylene	50	50	NA	37	36	74		71		4	30	46-121

Katahdin Analytical Services 2000011

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Lab File ID: UD540 DFTPP Injection Date: 11/26/03

Instrument ID: GCMS-U DFTPP Injection Time: 0948

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.5
68	Less than 2.0% of mass 69	0.8 (1.3)1
69	Less than 100.0% of mass 198	61.0
70	Less than 2.0% of mass 69	0.5 (0.8)1
127	40.0 - 60.0% of mass 198	55.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	21.4
365	1.0 - 100.0% of mass 198	2.9
441	0.0 - 100.0% of mass 443	11.5 (75.6)2
442	40.0 - 100.0% of mass 198	75.5
443	17.0 - 23.0% of mass 442	15.2 (20.1)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS.

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050U1126	U5466	11/26/03	1006
02	KW-RINS-01-1103	WT2841-5RE	U5478	11/26/03	1905
03	WG4766-LCS	WG4766-2	U5479	11/26/03	1950
04	WG4766-LCSD	WG4766-3	U5480	11/26/03	2034
05	WG4766-BLANK	WG4766-1	U5481	11/26/03	2119
06					
07					
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19					
20					

FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-U Calibration Date: 11/26/03 Time: 1006

Lab File ID: U5466 Init. Calib. Date(s): 11/12/03 11/12/03

Init. Calib. Times: 1204 1555

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Phenol	1.5050000	1.4835000	1.4835000	0.01	-1.43	20.00	AVRG
Bis(2-Chloroethyl)ether	1.1550000	1.2185000	1.2185000	0.01	5.50	100.00	AVRG
2-Chlorophenol	1.1730000	1.2194000	1.2194000	0.01	3.96	100.00	AVRG
1,3-Dichlorobenzene	1.3080000	1.3482000	1.3482000	0.01	3.07	100.00	AVRG
1,4-Dichlorobenzene	1.3080000	1.3776000	1.3776000	0.01	5.32	20.00	AVRG
1,2-Dichlorobenzene	1.2110000	1.2615000	1.2615000	0.01	4.17	100.00	AVRG
2-Methylphenol	1.0830000	1.1144000	1.1144000	0.01	2.90	100.00	AVRG
2,2'-Oxybis(1-Chloropropane)	1.0190000	1.0911000	1.0911000	0.01	7.08	100.00	AVRG
4-Methylphenol	1.1100000	1.1524000	1.1524000	0.01	3.82	100.00	AVRG
N-Nitroso-di-n-propylamine	0.9700000	1.0575000	1.0575000	0.05	9.02	100.00	AVRG
Hexachloroethane	0.5310000	0.5630500	0.5630500	0.01	6.04	100.00	AVRG
Nitrobenzene	0.3790000	0.4047200	0.4047200	0.01	6.79	100.00	AVRG
Isophorone	0.6470000	0.6949700	0.6949700	0.01	7.41	100.00	AVRG
2-Nitrophenol	0.1640000	0.1782700	0.1782700	0.01	8.70	20.00	AVRG
2,4-Dimethylphenol	0.3160000	0.3404900	0.3404900	0.01	7.75	100.00	AVRG
Bis(2-Chloroethoxy)methane	0.3750000	0.4061000	0.4061000	0.01	8.29	100.00	AVRG
2,4-Dichlorophenol	0.2430000	0.2709000	0.2709000	0.01	11.48	20.00	AVRG
1,2,4-Trichlorobenzene	0.2650000	0.2785900	0.2785900	0.01	5.13	100.00	AVRG
Naphthalene	0.9000000	0.9280900	0.9280900	0.01	3.12	100.00	AVRG
4-Chloroaniline	0.3080000	0.3677800	0.3677800	0.01	19.41	100.00	AVRG
Hexachlorobutadiene	0.1270000	0.1359300	0.1359300	0.01	7.03	20.00	AVRG
4-Chloro-3-Methylphenol	0.2400000	0.2826500	0.2826500	0.01	17.77	20.00	AVRG
2-Methylnaphthalene	0.5570000	0.6118100	0.6118100	0.01	9.84	100.00	AVRG
Hexachlorocyclopentadiene	0.2480000	0.2101900	0.2101900	0.05	-15.25	100.00	AVRG
2,4,6-Trichlorophenol	0.2880000	0.2960800	0.2960800	0.01	2.80	20.00	AVRG
2,4,5-Trichlorophenol	0.3040000	0.3197900	0.3197900	0.01	5.19	100.00	AVRG
2-Chloronaphthalene	0.8600000	0.8785300	0.8785300	0.01	2.15	100.00	AVRG
2-Nitroaniline	0.3000000	0.3218200	0.3218200	0.01	7.27	100.00	AVRG
Dimethyl Phthalate	1.0180000	1.0733000	1.0733000	0.01	5.43	100.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-U Calibration Date: 11/26/03 Time: 1006

Lab File ID: U5466 Init. Calib. Date(s): 11/12/03 11/12/03

Init. Calib. Times: 1204 1555

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Acenaphthylene	1.5440000	1.5553000	1.5553000	0.01	0.73	100.00	AVRG
2,6-Dinitrotoluene	0.2350000	0.2558500	0.2558500	0.01	8.87	100.00	AVRG
3-Nitroaniline	0.2170000	0.2402200	0.2402200	0.01	10.70	100.00	AVRG
Acenaphthene	0.9590000	0.9459400	0.9459400	0.01	-1.36	20.00	AVRG
2,4-Dinitrophenol	0.1140000	0.1089000	0.1089000	0.05	-4.47	100.00	AVRG
4-Nitrophenol	43.003000	50.000000	0.1157800	0.05	-13.99	100.00	LINR
Dibenzofuran	1.2340000	1.2891000	1.2891000	0.01	4.46	100.00	AVRG
2,4-Dinitrotoluene	0.3170000	0.3436800	0.3436800	0.01	8.42	100.00	AVRG
Diethylphthalate	1.8600000	1.0786000	1.0786000	0.01	-42.01	100.00	AVRG
4-Chlorophenyl-phenylether	0.4430000	0.4640300	0.4640300	0.01	4.75	100.00	AVRG
Fluorene	1.0760000	1.0883000	1.0883000	0.01	1.14	100.00	AVRG
4-Nitroaniline	53.382000	50.000000	0.2233000	0.01	6.76	100.00	LINR
4,6-Dinitro-2-Methylphenol	49.257000	50.000000	0.1128600	0.01	-1.49	100.00	LINR
N-Nitrosodiphenylamine	0.4570000	0.4770600	0.4770600	0.01	4.39	20.00	AVRG
4-Bromophenyl-phenylether	0.1500000	0.1591700	0.1591700	0.01	6.11	100.00	AVRG
Hexachlorobenzene	0.1590000	0.1677000	0.1677000	0.01	5.47	100.00	AVRG
Pentachlorophenol	49.647000	50.000000	0.1006700	0.01	-0.71	20.00	LINR
Phenanthrene	0.9480000	0.9428300	0.9428300	0.01	-0.54	100.00	AVRG
Anthracene	0.9320000	0.9375000	0.9375000	0.01	0.59	100.00	AVRG
Carbazole	0.7660000	0.8101300	0.8101300	0.01	5.76	100.00	AVRG
Di-n-butylphthalate	1.0170000	1.1430000	1.1430000	0.01	12.39	100.00	AVRG
Fluoranthene	0.9000000	0.8872700	0.8872700	0.01	-1.41	20.00	AVRG
Pyrene	1.3990000	1.2979000	1.2979000	0.01	-7.23	100.00	AVRG
Butylbenzylphthalate	0.6760000	0.6907000	0.6907000	0.01	2.17	100.00	AVRG
3,3'-Dichlorobenzidine	0.2210000	0.2475500	0.2475500	0.01	12.01	100.00	AVRG
Benzo(a)anthracene	1.0720000	0.9820300	0.9820300	0.01	-8.39	100.00	AVRG
Chrysene	0.9930000	0.9685900	0.9685900	0.01	-2.46	100.00	AVRG
bis(2-Ethylhexyl)phthalate	0.9170000	0.9751000	0.9751000	0.01	6.34	100.00	AVRG
Di-n-octylphthalate	1.8590000	2.0717000	2.0717000	0.01	11.44	20.00	AVRG

Katahdin Analytical Services 2000034

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GCMS-U Calibration Date: 11/26/03 Time: 1006

Lab File ID: U5466 Init. Calib. Date(s): 11/12/03 11/12/03

Init. Calib. Times: 1204 1555

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Benzo(b)fluoranthene	1.2160000	1.1471000	1.1471000	0.01	-5.67	100.00	AVRG
Benzo(k)fluoranthene	1.2470000	1.3311000	1.3311000	0.01	6.74	100.00	AVRG
Benzo(a)pyrene	1.0120000	1.0663000	1.0663000	0.01	5.36	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.7440000	0.6027200	0.6027200	0.01	-18.99	100.00	AVRG
Dibenzo(a,h)anthracene	0.7250000	0.6970500	0.6970500	0.01	-3.86	100.00	AVRG
Benzo(g,h,i)perylene	0.8840000	0.6978500	0.6978500	0.01	-21.06	100.00	AVRG
2-Fluorophenol	1.0410000	1.0234000	1.0234000	0.01	-1.69	100.00	AVRG
Phenol-D6	1.4000000	1.3563000	1.3563000	0.01	-3.12	100.00	AVRG
Nitrobenzene-D5	0.3790000	0.3945500	0.3945500	0.01	4.10	100.00	AVRG
2-Fluorobiphenyl	1.0330000	1.0615000	1.0615000	0.01	2.76	100.00	AVRG
2,4,6-Tribromophenol	0.1140000	0.1190000	0.1190000	0.01	4.39	100.00	AVRG
Terphenyl-D14	0.8200000	0.7994600	0.7994600	0.01	-2.50	100.00	AVRG

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/24/03
Analysis Date: 11/26/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4766-2 & WG4766-3
Client ID: WG4766-LCS & WG4766-LCSD
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG4766
Units: ug/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Phenol	100	100	NA	71	78	71	78	10	30	12-126
Bis(2-Chloroethyl)ether	50	50	NA	47	42	93	83	12	30	52-115
2-Chlorophenol	100	100	NA	77	74	77	74	3	30	46-114
1,3-Dichlorobenzene	50	50	NA	38	35	77	71	8	30	40- 99
1,4-Dichlorobenzene	50	50	NA	39	36	79	72	9	30	40- 99
1,2-Dichlorobenzene	50	50	NA	40	37	80	75	7	30	44-101
2-Methylphenol	100	100	NA	80	77	80	77	3	30	50-110
2,2'-Oxybis(1-Chloropropane)	50	50	NA	43	40	86	80	8	30	54-114
4-Methylphenol	100	100	NA	82	80	82	80	2	30	46-119
N-Nitroso-di-n-propylamine	50	50	NA	40	37	81	74	8	30	52-108
Hexachloroethane	50	50	NA	37	34	74	68	8	30	30- 99
Nitrobenzene	50	50	NA	41	38	81	77	6	30	49-113
Isophorone	50	50	NA	39	36	78	73	7	30	49-106
2-Nitrophenol	100	100	NA	57	75	57	75	28	[illegible]	[illegible]
2,4-Dimethylphenol	100	100	NA	78	73	78	73	[illegible]	[illegible]	[illegible]
Bis(2-Chloroethoxy)methane	50	50	NA	41	38	82	77	[illegible]	[illegible]	[illegible]
2,4-Dichlorophenol	100	100	NA	77	76	77	76	1	[illegible]	[illegible]
1,2,4-Trichlorobenzene	50	50	NA	37	35	74	70	6	30	39-105
Naphthalene	50	50	NA	39	37	79	73	7	30	46-110
4-Chloroaniline	50	50	NA	51	44	102	87	16	30	19-125
Hexachlorobutadiene	50	50	NA	38	34	75	69	8	30	28-109
4-Chloro-3-Methylphenol	100	100	NA	85	82	85	82	3	30	52-121
2-Methylnaphthalene	50	50	NA	48	45	96	90	6	30	51-108
Hexachlorocyclopentadiene	50	50	NA	10	10	20	20	1.0	30	0- 90
2,4,6-Trichlorophenol	100	100	NA	76	73	76	73	3	30	51-120
2,4,5-Trichlorophenol	100	100	NA	79	75	79	75	5	30	53-120
2-Chloronaphthalene	50	50	NA	47	42	94	85	10	30	44-156
2-Nitroaniline	50	50	NA	49	45	97	90	7	30	53-127
Dimethyl Phthalate	50	50	NA	45	41	89	82	[illegible]	[illegible]	[illegible]
Acenaphthylene	50	50	NA	39	37	78	74	[illegible]	[illegible]	[illegible]
2,6-Dinitrotoluene	50	50	NA	45	41	90	82	8	30	51-120
3-Nitroaniline	50	50	NA	54	45	108	90	18	30	48-124
Acenaphthene	50	50	NA	40	38	80	75	6	30	52-113
2,4-Dinitrophenol	100	100	NA	13	68 *	13	68 *	140	30	22-155
4-Nitrophenol	100	100	NA	42	62	42	62 *	38	30	6-132
Dibenzofuran	50	50	NA	49	46	97	91	6	30	54-111
2,4-Dinitrotoluene	50	50	NA	43	40	86	80	7	30	50-119
Diethylphthalate	50	50	NA	24	22	49	45	8	30	31-129
4-Chlorophenyl-phenylether	50	50	NA	43	40	87	80	8	30	56-115
Fluorene	50	50	NA	42	39	84	78	8	30	56-115
4-Nitroaniline	50	50	NA	49	45	97	90	8	30	50-137
4,6-Dinitro-2-Methylphenol	100	100	NA	48	74	48	74 *	42	30	43-151
N-Nitrosodiphenylamine	100	100	NA	90	83	90	83	8	30	67-131
4-Bromophenyl-phenylether	50	50	NA	48	42	97	84	14	30	59-118
Hexachlorobenzene	50	50	NA	44	40	89	79	11	30	55-116

Katahdin Analytical Services 2000012

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/24/03
Analysis Date: 11/26/03
Report Date: 12/01/2003
Matrix: WATER

Lab ID: WG4766-2 & WG4766-3
Client ID: WG4766-LCS & WG4766-LCSD
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG4766
Units: ug/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.		LCSD %REC.		%RPD	%RPD LIMIT	QC. LIMITS
Pentachlorophenol	100	100	NA	63	66	63		66		4	30	38-148
Phenanthrene	50	50	NA	44	40	88		79		10	30	56-117
Anthracene	50	50	NA	44	40	87		79		9	30	56-117
Carbazole	50	50	NA	52	47	104		95		10	30	63-133
Di-n-butylphthalate	50	50	NA	50	46	100		93		7	30	43-136
Fluoranthene	50	50	NA	41	37	82		74		10	30	51-129
Pyrene	50	50	NA	40	37	80		74		8	30	46-133
Butylbenzylphthalate	50	50	NA	44	42	88		83		5	30	31-156
3,3'-Dichlorobenzidine	50	50	NA	94	86	188	*	172	*	9	30	30-128
Benzo(a)anthracene	50	50	NA	38	35	76		69		9	30	54-118
Chrysene	50	50	NA	37	33	73		66		11	30	57-119
bis(2-Ethylhexyl)phthalate	50	50	NA	46	49	93		98		6	30	43-151
Di-n-octylphthalate	50	50	NA	47	43	94		86		8	30	42-166
Benzo(b)fluoranthene	50	50	NA	40	35	80		69		14	30	[illegible]
Benzo(k)fluoranthene	50	50	NA	44	40	87		80		8	[illegible]	[illegible]
Benzo(a)pyrene	50	50	NA	43	39	87		78		[illegible]	[illegible]	[illegible]
Indeno(1,2,3-cd)pyrene	50	50	NA	50	32	100		63	*	45	30	[illegible]
Dibenzo(a,h)anthracene	50	50	NA	40	38	80		76		5	30	45-118
Benzo(g,h,i)perylene	50	50	NA	33	32	66		64		4	30	46-121

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS WEST SDG No.: CTO318-1

Lab File ID: KD211 DFTPP Injection Date: 11/13/03

Instrument ID: GCMS-K DFTPP Injection Time: 0806

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	42.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	53.4
70	Less than 2.0% of mass 69	0.4 (0.8)1
127	40.0 - 60.0% of mass 198	42.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.5
275	10.0 - 30.0% of mass 198	19.4
365	1.0 - 100.0% of mass 198	2.7
441	0.0 - 100.0% of mass 443	1.9 (16.9)2
442	40.0 - 100.0% of mass 198	53.0
443	17.0 - 23.0% of mass 442	11.4 (21.4)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.25K1113	K5601	11/13/03	0845
02		SSTD3.00K1113	K5602	11/13/03	0939
03		SSTD2.50K1113	K5603	11/13/03	1028
04		SSTD2.00K1113	K5604	11/13/03	1118
05		SSTD0.625K1113	K5605	11/13/03	1208
06		SSTD0.125K1113	K5606	11/13/03	1257
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM 2
WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS WEST SDG No.: CTO318-1

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	WG4498-BLANK	WG4498-1	92	78	116						0
02	WG4498-LCS	WG4498-2	63	75	113						0
03	FC-MW-22-1103MS	WG4498-3	83	57	66						0
04	FC-MW-22-1103MSD	WG4498-4	74	55	65						0
05	FC-MW-06-1103	WT2841-1	66	57	88						0
06	KWDUP-01-1103	WT2841-2	80	69	72						0
07	B01-MW-03-1103	WT2841-3	68	52	75						0
08	FC-MW-05-1103	WT2841-4	70	55	75						0
09	B01-MW-01-1103	WT2841-7	70	66	74						0
10	FC-MW-22-1103	WT2841-6DL	D	D	D						0
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

		QC LIMITS
S1	= 2-Methylnaphthalene-d1	(30-150)
S2	= Fluorene-d10	(30-150)
S3	= Pyrene-d10	(30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS WEST SDG No.: CTO318-1

Lab File ID: KD214 DFTPP Injection Date: 11/17/03

Instrument ID: GCMS-K DFTPP Injection Time: 1130

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	53.6
68	Less than 2.0% of mass 69	0.7 (1.2)1
69	Less than 100.0% of mass 198	60.6
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	47.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	18.8
365	1.0 - 100.0% of mass 198	2.2
441	0.0 - 100.0% of mass 443	6.2 (63.6)2
442	40.0 - 100.0% of mass 198	50.5
443	17.0 - 23.0% of mass 442	9.8 (19.4)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.25K1117	K5632	11/17/03	1158
02	WG4498-BLANK	WG4498-1	K5634	11/17/03	1349
03	WG4498-LCS	WG4498-2	K5636	11/17/03	1528
04	FC-MW-22-1103MS	WG4498-3	K5637	11/17/03	1619
05	FC-MW-22-1103MSD	WG4498-4	K5638	11/17/03	1708
06	FC-MW-06-1103	WT2841-1	K5639	11/17/03	1759
07	KWDUP-01-1103	WT2841-2	K5640	11/17/03	1849
08	B01-MW-03-1103	WT2841-3	K5641	11/17/03	1940
09	FC-MW-05-1103	WT2841-4	K5642	11/17/03	2029
10	B01-MW-01-1103	WT2841-7	K5644	11/17/03	2208
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS WEST SDG No.: CTO318-1

Instrument ID: GCMS-K Calibration Date: 11/17/03 Time: 1158

Lab File ID: K5632 Init. Calib. Date(s): 11/13/03 11/13/03

Init. Calib. Times: 0845 1257

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF OR AMOUNT	RRF1.2500 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	0.9920000	0.9369000	0.01	-5.55		AVRG
2-Methylnaphthalene	0.5300000	0.5319500	0.01	0.37		AVRG
Acenaphthylene	1.7380000	1.5239000	0.01	-12.32		AVRG
Acenaphthene	1.1740000	1.1189000	0.01	-4.69	20.00	AVRG
Fluorene	1.1950000	1.0951000	0.01	-8.36		AVRG
Phenanthrene	0.8820000	0.8547800	0.01	-3.09		AVRG
Anthracene	0.9980000	0.8816800	0.01	-11.66		AVRG
Fluoranthene	0.8730000	0.8655100	0.01	-0.86	20.00	AVRG
Pyrene	1.6260000	2.0516000	0.01	26.18		AVRG
Benzo(a)anthracene	1.2150000	1.2723000	0.01	4.72		AVRG
Chrysene	1.3540000	1.6051000	0.01	18.54		AVRG
Benzo(b)fluoranthene	1.3780000	1.2019000	0.01	-12.78		AVRG
Benzo(k)fluoranthene	1.5710000	1.6612000	0.01	5.74		AVRG
Benzo(a)pyrene	1.2380000	1.1545000	0.01	-6.74	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.9480000	0.8579900	0.01	-9.49		AVRG
Dibenzo(a,h)anthracene	0.8860000	0.9669900	0.01	9.14		AVRG
Benzo(g,h,i)perylene	1.0330000	1.1788000	0.01	14.11		AVRG
1-Methylnaphthalene	0.5130000	0.4666800	0.01	-9.03		AVRG
2-Methylnaphthalene-d10	0.3770000	0.3421200	0.01	-9.25		AVRG
Fluorene-d10	1.0310000	1.1200000	0.01	8.63		AVRG
Pyrene-d10	1.2220000	1.3255000	0.01	8.47		AVRG

FORM VII PEST

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/17/03
Report Date: 11/19/2003
Matrix: WATER

Lab ID: WG4498-3 & WG4498-4
Client ID: FC-MW-22-1103MS & FC-MW-22-1103MSD
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4498
Units: ug/L

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Naphthalene	1.9	1.9	191	178	143	NC	NC	22	30	30-150
2-Methylnaphthalene	1.9	1.9	59	58	48	NC	NC	18	30	30-150
Acenaphthylene	1.9	1.9	0.00	1.1	1.0	57	54	8	30	30-150
Acenaphthene	1.9	1.9	0.00	1.0	1.0	52	54	2	30	30-150
Fluorene	1.9	1.9	0.00	1.0	0.93	53	50	9	30	30-150
Phenanthrene	1.9	1.9	0.00	1.3	1.2	68	62	10	30	30-150
Anthracene	1.9	1.9	0.00	1.3	1.1	68	57	19	30	30-150
Fluoranthene	1.9	1.9	0.00	1.0	0.79	52	42	24	30	30-150
Pyrene	1.9	1.9	0.00	0.99	1.0	52	55	5	30	30-150
Benzo(a)anthracene	1.9	1.9	0.00	0.85	0.75	44	40	12	30	30-150
Chrysene	1.9	1.9	0.00	0.86	0.76	44	40	12	30	30-150
Benzo(b)fluoranthene	1.9	1.9	0.00	0.77	0.63	40	34	19	30	30-150
Benzo(k)fluoranthene	1.9	1.9	0.00	0.87	0.64	45	34 *	31	30	30-150
Benzo(a)pyrene	1.9	1.9	0.00	0.70	0.55	36 *	29	24	30	30-150
Indeno(1,2,3-cd)pyrene	1.9	1.9	0.00	0.50	0.38 *	26	20	26	30	30-150
Dibenzo(a,h)anthracene	1.9	1.9	0.00	0.58	0.44	30 *	23	29	30	30-150
Benzo(g,h,i)perylene	1.9	1.9	0.00	0.63	0.45	33 *	24 *	29	30	30-150

FORM III SV-1

K5637.D & K5638.D

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS WEST SDG No.: CTO318-1

Lab File ID: KD215 DFTPP Injection Date: 11/19/03

Instrument ID: GCMS-K DFTPP Injection Time: 1244

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	55.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	56.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	45.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	20.6
365	1.0 - 100.0% of mass 198	4.2
441	0.0 - 100.0% of mass 443	11.3 (92.1)2
442	40.0 - 100.0% of mass 198	58.5
443	17.0 - 23.0% of mass 442	12.3 (21.1)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.25K1119	K5665	11/19/03	1309
02	FC-MW-22-1103	WT2841-6DL	K5666	11/19/03	1358
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GC08 Calibration Date: 12/03/03 Time: 0846

Lab File ID: 8TL1078 Init. Calib. Date(s): 12/02/03 12/02/03

Init. Calib. Times: 1628 2154

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	4.36e-002	5.e-002	4766700.0	0.01	-12.80	15.00	2RDR	
gamma BHC	4.21e-002	5.e-002	4320600.0	0.01	-15.80	15.00	2RDR	<-
Heptachlor	4.37e-002	5.e-002	4539100.0	0.01	-12.60	15.00	2RDR	
beta-BHC	4.43e-002	5.e-002	2193000.0	0.01	-11.40	15.00	2RDR	
Aldrin	4.31e-002	5.e-002	3983500.0	0.01	-13.80	15.00	2RDR	
delta-BHC	4.5e-002	5.e-002	4324600.0	0.01	-10.00	15.00	2RDR	
Heptachlor Epoxide	4.37e-002	5.e-002	3787600.0	0.01	-12.60	15.00	2RDR	
Endosulfan I	4.31e-002	5.e-002	3794500.0	0.01	-13.80	15.00	2RDR	
4,4'-DDE	4.45e-002	5.e-002	3631500.0	0.01	-11.00	15.00	2RDR	
Dieldrin	4.43e-002	5.e-002	3651600.0	0.01	-11.40	15.00	2RDR	
Endrin	4.41e-002	5.e-002	3302200.0	0.01	-11.80	15.00	2RDR	
4,4'-DDD	4.48e-002	5.e-002	2571500.0	0.01	-10.40	15.00	2RDR	
Endosulfan II	4.51e-002	5.e-002	2873500.0	0.01	-9.80	15.00	2RDR	
4,4'-DDT	4.37e-002	5.e-002	2770900.0	0.01	-12.60	15.00	2RDR	
Endrin Aldehyde	4.41e-002	5.e-002	2145700.0	0.01	-11.80	15.00	2RDR	
Endosulfan sulfate	4.69e-002	5.e-002	1349100.0	0.01	-6.20	15.00	2RDR	
Methoxychlor	4.63e-002	5.e-002	2067500.0	0.01	-7.40	15.00	2RDR	
alpha-Chlordane	4.43e-002	5.e-002	3757000.0	0.01	-11.40	15.00	2RDR	
gamma-Chlordane	4.48e-002	5.e-002	3733500.0	0.01	-10.40	15.00	2RDR	
Endrin Ketone	4.52e-002	5.e-002	2372400.0	0.01	-9.60	15.00	2RDR	
Tetrachloro-m-Xylene	4.67e-002	5.e-002	3239800.0	0.01	-6.60	15.00	2RDR	
Decachlorobiphenyl	4.53e-002	5.e-002	2259700.0	0.01	-9.40	15.00	2RDR	

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GC08 Calibration Date: 12/03/03 Time: 0846

Lab File ID: 8TL2078 Init. Calib. Date(s): 12/02/03 12/02/03

Init. Calib. Times: 1628 2154

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	4.8e-002	5.e-002	3844000.0	0.01	-4.00	15.00	2RDR
gamma BHC	4.95e-002	5.e-002	3357800.0	0.01	-1.00	15.00	2RDR
Heptachlor	5.04e-002	5.e-002	3269600.0	0.01	0.80	15.00	2RDR
beta-BHC	4.83e-002	5.e-002	1690700.0	0.01	-3.40	15.00	2RDR
Aldrin	4.82e-002	5.e-002	3111800.0	0.01	-3.60	15.00	2RDR
delta-BHC	4.97e-002	5.e-002	3470000.0	0.01	-0.60	15.00	2RDR
Heptachlor Epoxide	4.9e-002	5.e-002	2792900.0	0.01	-2.00	15.00	2RDR
Endosulfan I	4.93e-002	5.e-002	2411700.0	0.01	-1.40	15.00	2RDR
4,4'-DDE	4.94e-002	5.e-002	2459900.0	0.01	-1.20	15.00	2RDR
Dieldrin	4.92e-002	5.e-002	2328500.0	0.01	-1.60	15.00	2RDR
Endrin	4.92e-002	5.e-002	1871300.0	0.01	-1.60	15.00	2RDR
4,4'-DDD	5.04e-002	5.e-002	1536200.0	0.01	0.80	15.00	2RDR
Endosulfan II	4.98e-002	5.e-002	1763000.0	0.01	-0.40	15.00	2RDR
4,4'-DDT	4.85e-002	5.e-002	1483900.0	0.01	-3.00	15.00	2RDR
Endrin Aldehyde	4.96e-002	5.e-002	1260800.0	0.01	-0.80	15.00	2RDR
Endosulfan sulfate	5.13e-002	5.e-002	1262200.0	0.01	2.60	15.00	2RDR
Methoxychlor	5.07e-002	5.e-002	811260.00	0.01	1.40	15.00	2RDR
alpha-Chlordane	4.93e-002	5.e-002	2603900.0	0.01	-1.40	15.00	2RDR
gamma-Chlordane	4.87e-002	5.e-002	2723100.0	0.01	-2.60	15.00	2RDR
Endrin Ketone	4.98e-002	5.e-002	1706800.0	0.01	-0.40	15.00	2RDR
Tetrachloro-m-Xylene	5.2e-002	5.e-002	2489900.0	0.01	4.00	15.00	2RDR
Decachlorobiphenyl	4.97e-002	5.e-002	1847300.0	0.01	-0.60	15.00	2RDR

FORM 2
WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

GC Column(1): RTX-5 ID: 0.53 (mm)GC Column(2): RTX-35 ID: 0.53 (mm)

	CLIENT SAMPLE ID	LAB SAMPLE ID	TCX1 REC#	TCX2 REC#	DCB1 REC#	DCB2 REC#	OTHR (1)	OTHR (2)	TOT OUT
01	WG4487-BLANK	WG4487-1	90	92	85	85			0
02	WG4487-LCS	WG4487-2	86	88	88	88			0
03	WG4487-LCSD	WG4487-3	69	70	63	64			0
04	KW-RINS-01-1103	WT2841-5	75	77	36*	37*			2
05									
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
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20									
21									
22									
23									
24									
25									
26									
27									
28									

ADVISORY
QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene (46-100)
S2 (DCB) = Decachlorobiphenyl (54-114)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/12/03
Analysis Date: 12/03/03
Report Date: 12/04/2003
Matrix: WATER

Lab ID: WG4477-2
Client ID: WG4477-LCS
SDG: CTO318-1
Extracted by: NB
Extraction Method: SW846 3520
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG4477
Units: ug/L

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
alpha-BHC	0.50	NA	0.40		81	52-118
gamma BHC	0.50	NA	0.43		87	57-123
Heptachlor	0.50	NA	0.43		86	40-139
beta-BHC	0.50	NA	0.53		106	59-136
Aldrin	0.50	NA	0.43		86	54-116
delta-BHC	0.50	NA	0.45		90	77-127
Heptachlor Epoxide	0.50	NA	0.45		90	70-126
Endosulfan I	0.50	NA	0.29	*	58	65-127
4,4'-DDE	0.50	NA	0.47		93	69-124
Dieldrin	0.50	NA	0.47		94	76-127
Endrin	0.50	NA	0.49		99	84-132
4,4'-DDD	0.50	NA	0.48		95	83-123
Endosulfan II	0.50	NA	0.36	*	72	79-129
4,4'-DDT	0.50	NA	0.48		97	86-124
Endrin Aldehyde	0.50	NA	0.48		96	88-136
Endosulfan sulfate	0.50	NA	0.50		100	90-129
Methoxychlor	0.50	NA	0.51		103	76-168
alpha-Chlordane	0.50	NA	0.45		90	64-128
gamma-Chlordane	0.50	NA	0.45		90	64-125
Endrin Ketone	0.50	NA	0.52		104	87-132

Katahdin Analytical Services 3000006

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date(s): 12/01/03 12/01/03

Instrument ID: GC06

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.21 DCB: 20.67

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
01	ICAL	AR1660 1.0PP	12/01/03	1018	7.21		20.67	
02	ICAL	AR1660 0.05P	12/01/03	1046	7.21		20.67	
03	ICAL	AR1660 0.10P	12/01/03	1115	7.21		20.67	
04	ICAL	AR1660 0.25P	12/01/03	1143	7.21		20.67	
05	ICAL	AR1660 2.5PP	12/01/03	1212	7.21		20.67	
06	ICAL	AR1660 10PPM	12/01/03	1240	7.21		20.67	
07	INDSOURCE	AR1016 1.0PP	12/01/03	1309				
08	INDSOURCE	AR1260 1.0PP	12/01/03	1337				
09	ICAL	AR1242 1.0PP	12/01/03	1406				
10	ICAL	AR1248 1.0	12/01/03	1657				
11	ICAL	AR1254 1.0PP	12/01/03	1947				
12	ICAL	AR1221 1.0PP	12/01/03	2238				
13	ICAL	AR1232 1.0 P	12/01/03	2306				
14	WG4487-BLANK	WG4487-1	12/02/03	0100	7.22		20.67	
15	WG4487-LCS	WG4487-2	12/02/03	0128	7.22		20.67	
16	WG4487-LCSD	WG4487-3	12/02/03	0156	7.22		20.67	
17	KW-RINS-01-1	WT2841-5	12/02/03	0447	7.22		20.67	
18	CV	AR1660 1.0PP	12/02/03	0902	7.22		20.67	
19								
20								

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.07 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Katahdin Analytical Services 6000007

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

GC Column: ZB-35 ID: 0.53 (mm) Init. Calib. Date(s): 12/01/03 12/01/03

Instrument ID: GC06

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.02 DCB: 21.08

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	ICAL	AR1660 1.0PP	12/01/03	1018	7.02	21.08
02	ICAL	AR1660 0.05P	12/01/03	1046	7.02	
03	ICAL	AR1660 0.10P	12/01/03	1115	7.02	21.08
04	ICAL	AR1660 0.25P	12/01/03	1143	7.02	21.08
05	ICAL	AR1660 2.5PP	12/01/03	1212	7.02	21.08
06	ICAL	AR1660 10PPM	12/01/03	1240	7.02	21.08
07	INDSOURCE	AR1016 1.0PP	12/01/03	1309		
08	INDSOURCE	AR1260 1.0PP	12/01/03	1337		
09	ICAL	AR1242 1.0PP	12/01/03	1406		
10	ICAL	AR1248 1.0	12/01/03	1657		
11	ICAL	AR1254 1.0PP	12/01/03	1947		
12	ICAL	AR1221 1.0PP	12/01/03	2238		
13	ICAL	AR1232 1.0 P	12/01/03	2306		
14	WG4487-BLANK	WG4487-1	12/02/03	0100	7.03	21.08
15	WG4487-LCS	WG4487-2	12/02/03	0128	7.03	21.08
16	WG4487-LCSD	WG4487-3	12/02/03	0156	7.03	21.08
17	KW-RINS-01-1	WT2841-5	12/02/03	0447	7.03	21.08
18	CV	AR1660 1.0PP	12/02/03	0902	7.03	21.08
19						
20						

QC LIMITS

TCX = Tetrachloro-m-xylene (+/- 0.07 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GC06 Calibration Date: 12/01/03 Time: 1337

Lab File ID: 6TL1012 Init. Calib. Date(s): 12/01/03 12/01/03

Init. Calib. Times: 1018 2209

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Aroclor-1260	1.2560000	1.0000000	33267.000	0.01	25.60	15.00	2RDR	<-
(2)	1.2088000	1.0000000	32575.000	0.01	20.88	15.00	2RDR	<-
(3)	1.1998000	1.0000000	71591.000	0.01	19.98	15.00	2RDR	<-
(4)	1.1062000	1.0000000	34930.000	0.01	10.62	15.00	2RDR	
(5)	1.2687000	1.0000000	20548.000	0.01	26.87	15.00	2RDR	<-
Average %D: 20.790								

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

Instrument ID: GC06 Calibration Date: 12/01/03 Time: 1337

Lab File ID: 6TL2012 Init. Calib. Date(s): 12/01/03 12/01/03

Init. Calib. Times: 1018 2209

GC Column: RTX-35 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Aroclor-1260	0.9192800	1.0000000	48616.000	0.01	-8.07	15.00	2RDR	
(2)	1.1684000	1.0000000	46518.000	0.01	16.84	15.00	2RDR	<-
(3)	1.1985000	1.0000000	99208.000	0.01	19.85	15.00	2RDR	<-
(4)	1.1554000	1.0000000	55207.000	0.01	15.54	15.00	2RDR	<-
(5)	1.2776000	1.0000000	28048.000	0.01	27.76	15.00	2RDR	<-
Average %D: 14.380								

FORM 8
FL-PRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

GC Column: ZB-1 ID: 0.53 (mm) Init. Calib. Date(s): 01/17/03 01/17/03

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.34 S2 : 24.66

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ICAL	FL PRO 5 UG/	01/17/03	1201	18.34	24.65
02	ICAL	FL PRO 20 UG	01/17/03	1311	18.34	24.66
03	ICAL	FL PRO 50 UG	01/17/03	1422	18.34	24.65
04	ICAL	FL PRO 100UG	01/17/03	1532	18.34	24.65
05	ICAL	FL PRO 200UG	01/17/03	1643	18.34	24.66
06	INDSOURCE	FL PRO IND	01/17/03	1753	18.34	24.65
07	CV	FLPRO 50 UG/	11/18/03	1515	18.24	24.47
08	WG4497-BLANK	WG4497-1	11/18/03	1857	18.23	24.46
09	WG4497-LCS	WG4497-2	11/18/03	2007	18.23	24.46
10	FC-MW-06-110	WT2841-1	11/19/03	0417	18.23	24.46
11	KWDUP-01-110	WT2841-2	11/19/03	0527	18.23	24.46
12	CV	FLPRO 50 UG/	11/19/03	0856	18.23	24.4[illegible]
13	FC-MW-05-110	WT2841-4	11/19/03	1007	18.23	24.4[illegible]
14	FC-MW-22-110	WT2841-6	11/19/03	1117	18.23	24.[illegible]
15	FC-MW-22-110	WG4497-3	11/19/03	1927	18.23	24.46
16	FC-MW-22-110	WG4497-4	11/19/03	2037	18.23	24.46
17	CV	FLPRO 50 UG/	11/20/03	0007	18.22	24.46
18						
19						
20						

QC LIMITS
S1 = O-Terphenyl (+/- 0.37 MINUTES)
S2 = n-Triacontane-D62 (+/- 0.49 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Katahdin Analytical Services 8000008

FORM 2
WATER FL-PRO SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-1

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 OTP#	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	WG4497-BLANK	WG4497-1	168	132							0
02	WG4497-LCS	WG4497-2	170	139							0
03	FC-MW-06-1103	WT2841-1	88	72*							1
04	KWDUP-01-1103	WT2841-2	87	70*							1
05	FC-MW-05-1103	WT2841-4	116	94							0
06	FC-MW-22-1103	WT2841-6	158	121							0
07	FC-MW-22-1103MS	WG4497-3	95	73*							1
08	FC-MW-22-1103MSD	WG4497-4	94	72*							1
09											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

		QC LIMITS
S1	= n-Triacontane-D62	(42-193)
S2 (OTP)	= O-Terphenyl	(82-142)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/13/03
Analysis Date: 11/18/03
Report Date: 11/26/2003
Matrix: WATER

Lab ID: WG4497-2
Client ID: WG4497-LCS
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4497
Units: ug/L

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Petroleum Range Organics	850	NA	1200	*	141	55-118

FORM III SV-1

CTK2033.d

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/11/03
Received Date: 11/12/03
Extraction Date: 11/13/03
Analysis Date: 11/19/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4497-3 & WG4497-4
Client ID: FC-MW-22-1103MS & FC-MW-22-1103MSD
SDG: CTO318-1
Extracted by: LS
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4497
Units: ug/L

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Petroleum Range Organics	825	810	3100	4900	4900	* 218	* 222	0.0	30	41-101

FORM III SV-1

CTK2053.d & CTK2054.d

Sequence Name: D:\HPCHEM\2\SEQUENCE\111703.S
Comment: Linked Data Acquisition.
Operator: IE
Data Path: D:\HPCHEM\2\DATA\111703\
Pre-Seq Cmd:
Post-Seq Cmd:

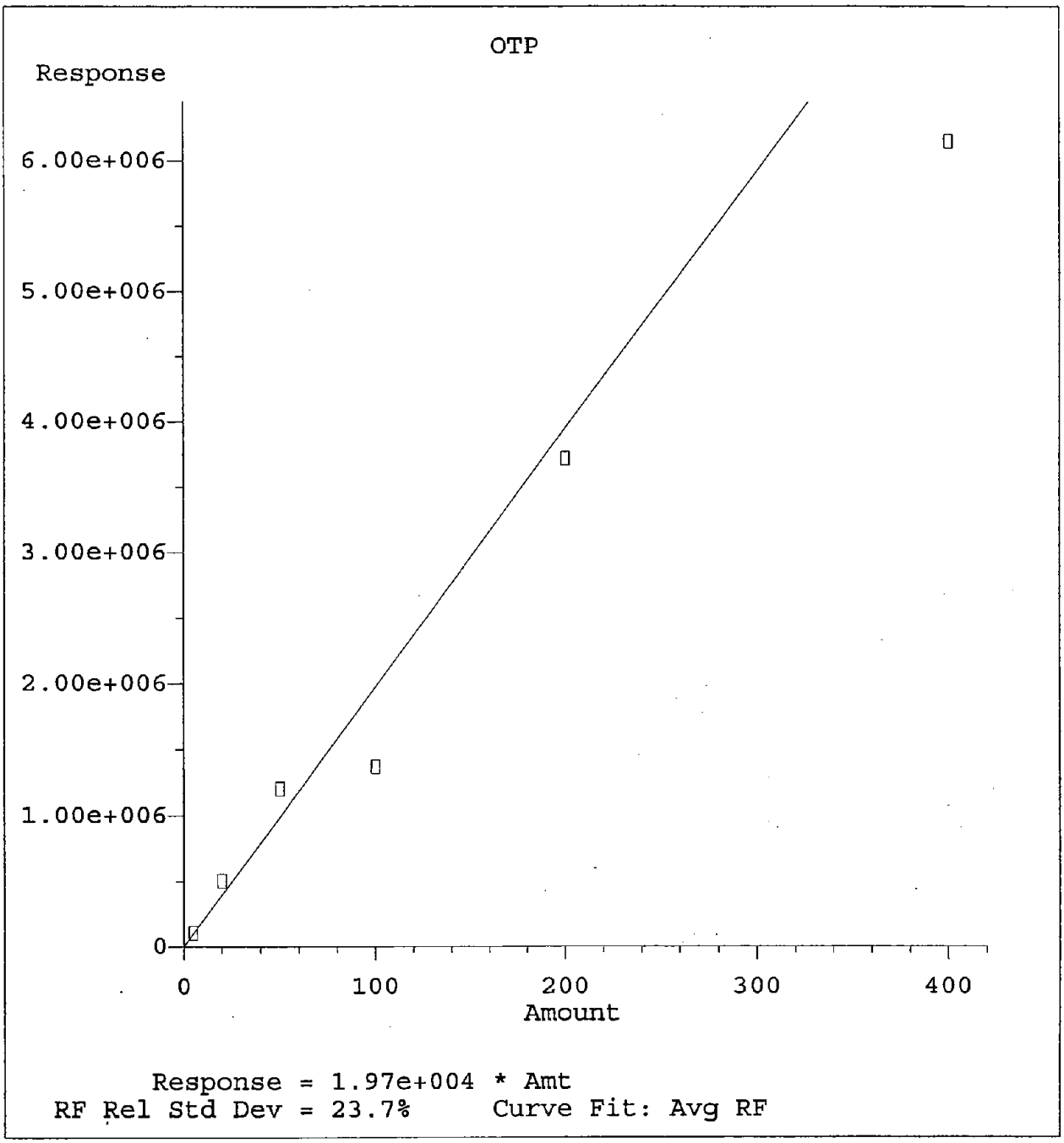
Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

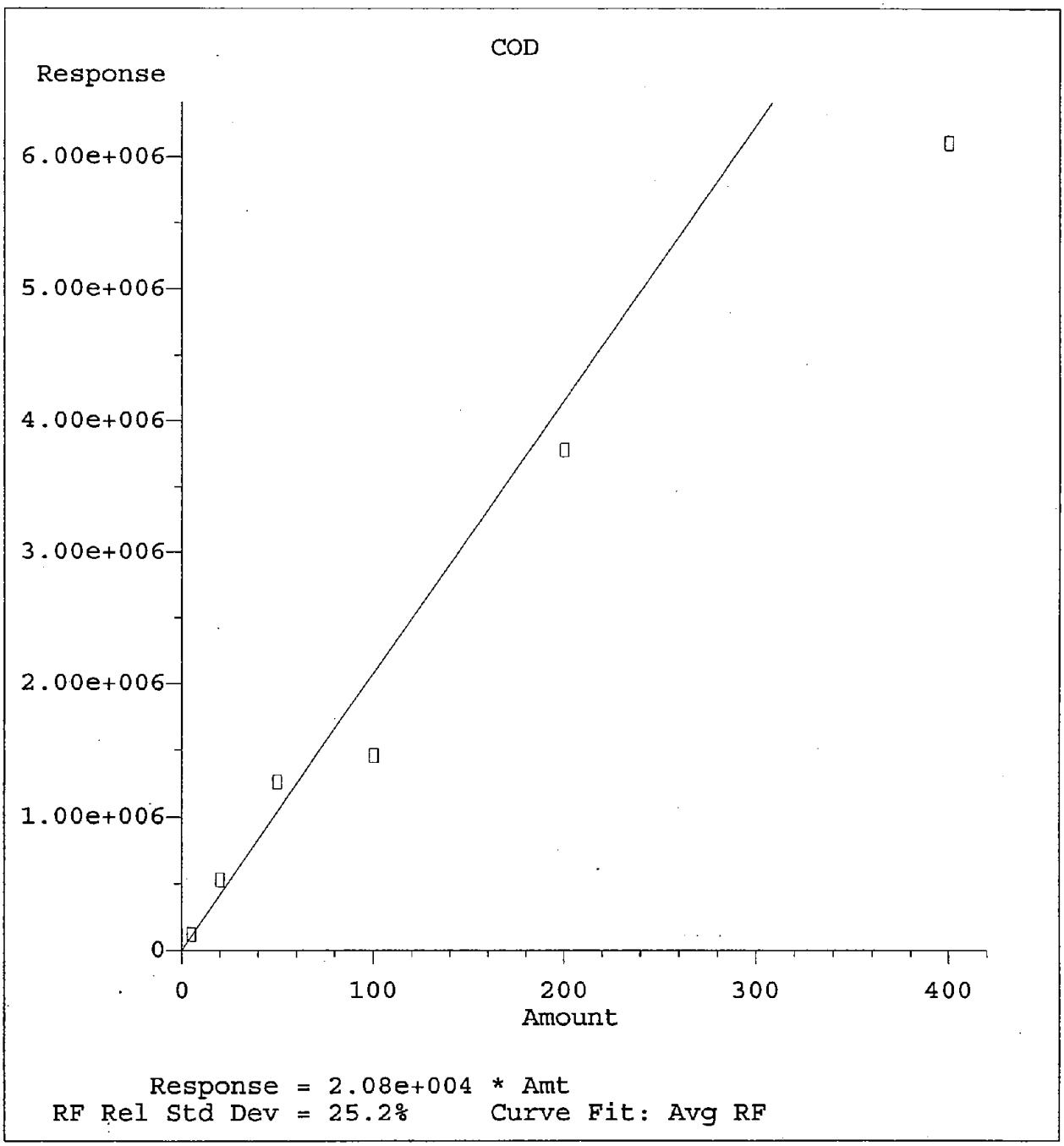
Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	--------	8015FRNT	HEXANE
2	Sample	1	CCTPH001	8015FRNT	100 PPM TPH CC
3	Sample	2	--------	8015FRNT	FRAC BLK 11/17/03 p
4	Sample	3	--------	8015FRNT	BLK GES 031 p
5	Sample	4	--------	8015FRNT	LCS GES 031 p
6	Sample	5	--------	8015FRNT	C311091-19
7	Sample	6	--------	8015FRNT	C311091-24
8	Sample	7	--------	8015FRNT	C311207-1
9	Sample	8	--------	8015FRNT	C311281-1
10	Sample	9	--------	8015FRNT	FRAC BLK GES 031 M
11	Sample	10	--------	8015FRNT	BLK GES 031 M
12	Sample	11	--------	8015FRNT	LCS GES 031 M
13	Sample	12	CCTPH002	8015FRNT	100 PPM TPH CC
14	Sample	13	--------	8015FRNT	C311091-19 M
15	Sample	14	--------	8015FRNT	C311091-24 M
16	Sample	15	--------	8015FRNT	C311207-1 M
17	Sample	16	--------	8015FRNT	C311281-1 M
18	Sample	17	--------	8015FRNT	BLK GEW 042
19	Sample	18	--------	8015FRNT	LCS GEW 042
20	Sample	19	--------	8015FRNT	C311437-4 MS
21	Sample	20	--------	8015FRNT	C311437-4 MSD
22	Sample	21	--------	8015FRNT	C311437-1
23	Sample	22	--------	8015FRNT	C311437-2
24	Sample	23	CCTPH003	8015FRNT	100 PPM TPH CC
25	Sample	24	--------	8015FRNT	C311437-3
26	Sample	25	--------	8015FRNT	C311437-4
27	Sample	26	--------	8015FRNT	BLK GES 041
28	Sample	27	--------	8015FRNT	LCS GES 041
29	Sample	28	--------	8015FRNT	C311452-1 MS
30	Sample	29	--------	8015FRNT	C311452-1 MSD
31	Sample	30	--------	8015FRNT	C311452-1
32	Sample	31	--------	8015FRNT	C311452-2
33	Sample	32	--------	8015FRNT	C311452-3
34	Sample	33	--------	8015FRNT	C311452-4
35	Sample	34	CCTPH004	8015FRNT	100 PPM TPH CC
36	Sample	35	--------	8015FRNT	C311452-5
37	Sample	36	--------	8015FRNT	C311452-6
38	Sample	37	--------	8015FRNT	C311472-1
39	Sample	38	--------	8015FRNT	C311472-2
40	Sample	39	--------	8015FRNT	C311472-3
41	Sample	40	--------	8015FRNT	C311472-4
42	Sample	41	--------	8015FRNT	C311472-5
43	Sample	42	--------	8015FRNT	C311472-6

Sequence Name: D:\HPCHEM\2\SEQUENCE\111703.S

Line	Type	Vial	DataFile	Method	Sample Name
44	Sample	43	--------	8015FRNT	C311416-1
45	Sample	44	--------	8015FRNT	C311213-1
46	Sample	45	CCTPH005	8015FRNT	100 PPM TPH CC
47	Sample	46	--------	8015FRNT	C311213-2
48	Sample	47	--------	8015FRNT	C311213-3
49	Sample	48	--------	8015FRNT	C311213-6
50	Sample	45	CCTPH006	8015FRNT	100 PPM TPH CC



Method Name: T:\METHODS\PROCESS\WG-FL6.M
Calibration Table Last Updated: Mon Jul 28 12:56:12 2003



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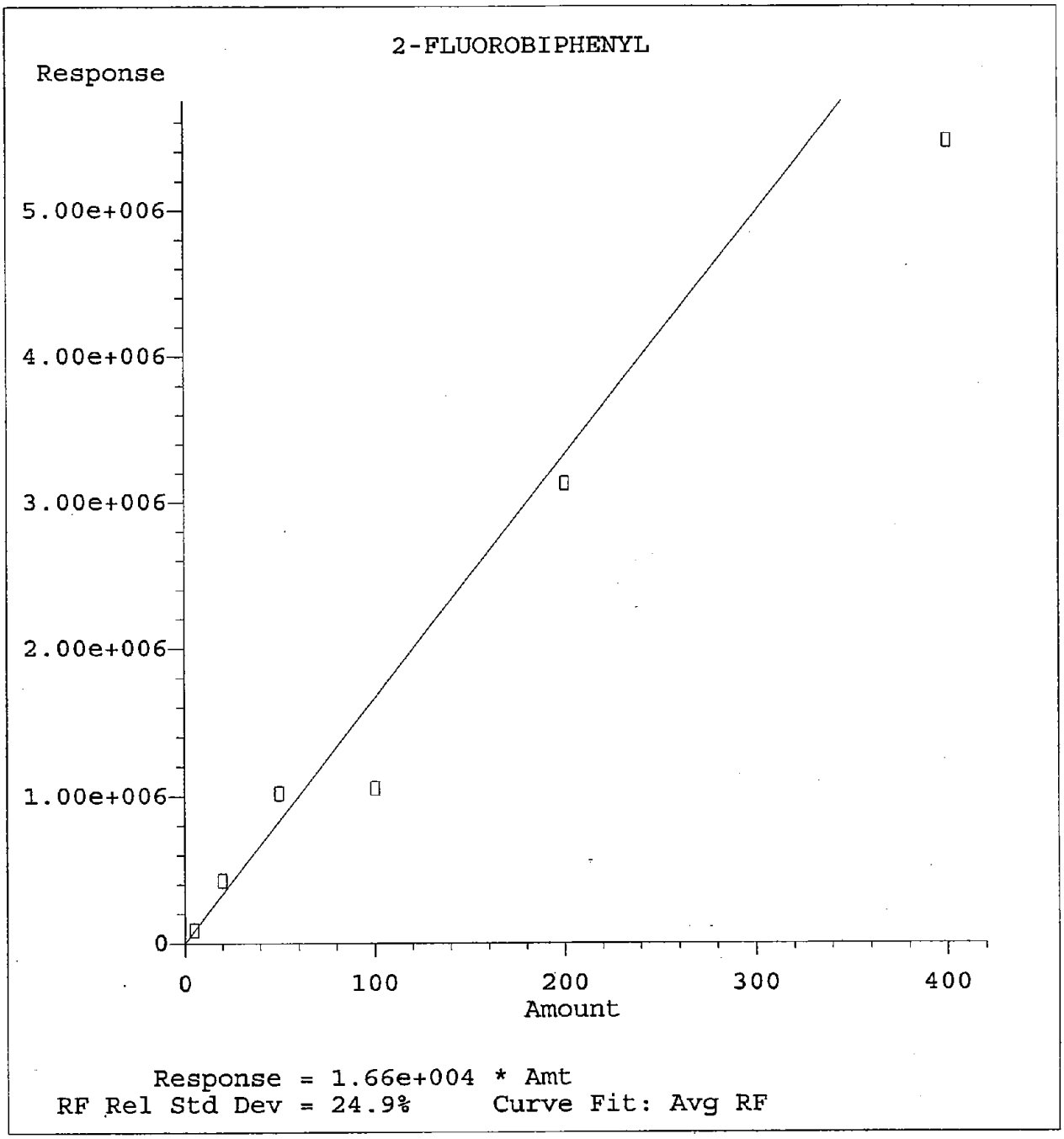
Calibration Table Last Updated: Mon Jul 28 12:56:12 2003



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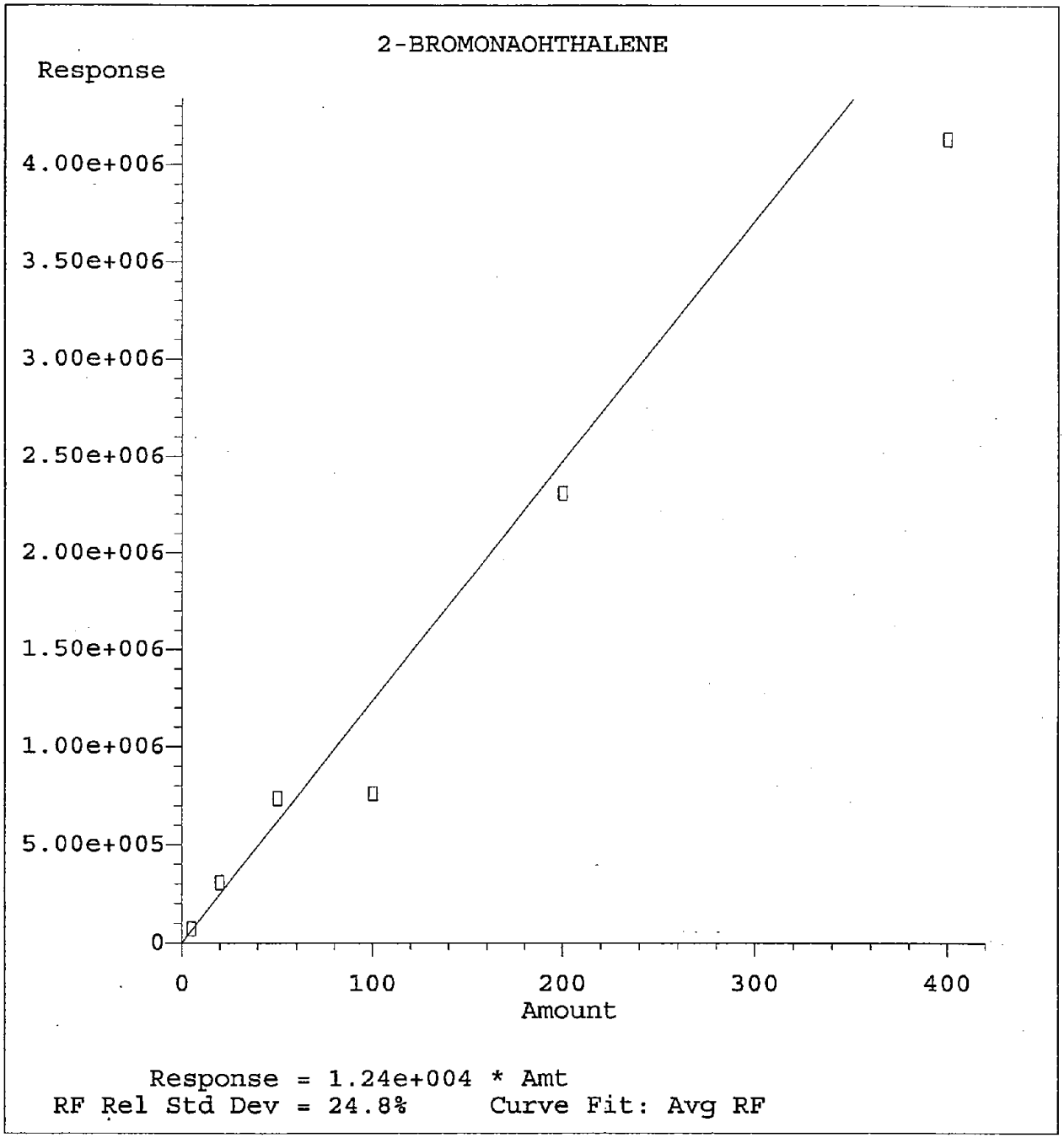
Calibration Table Last Updated: Mon Jul 28 12:56:12 2003



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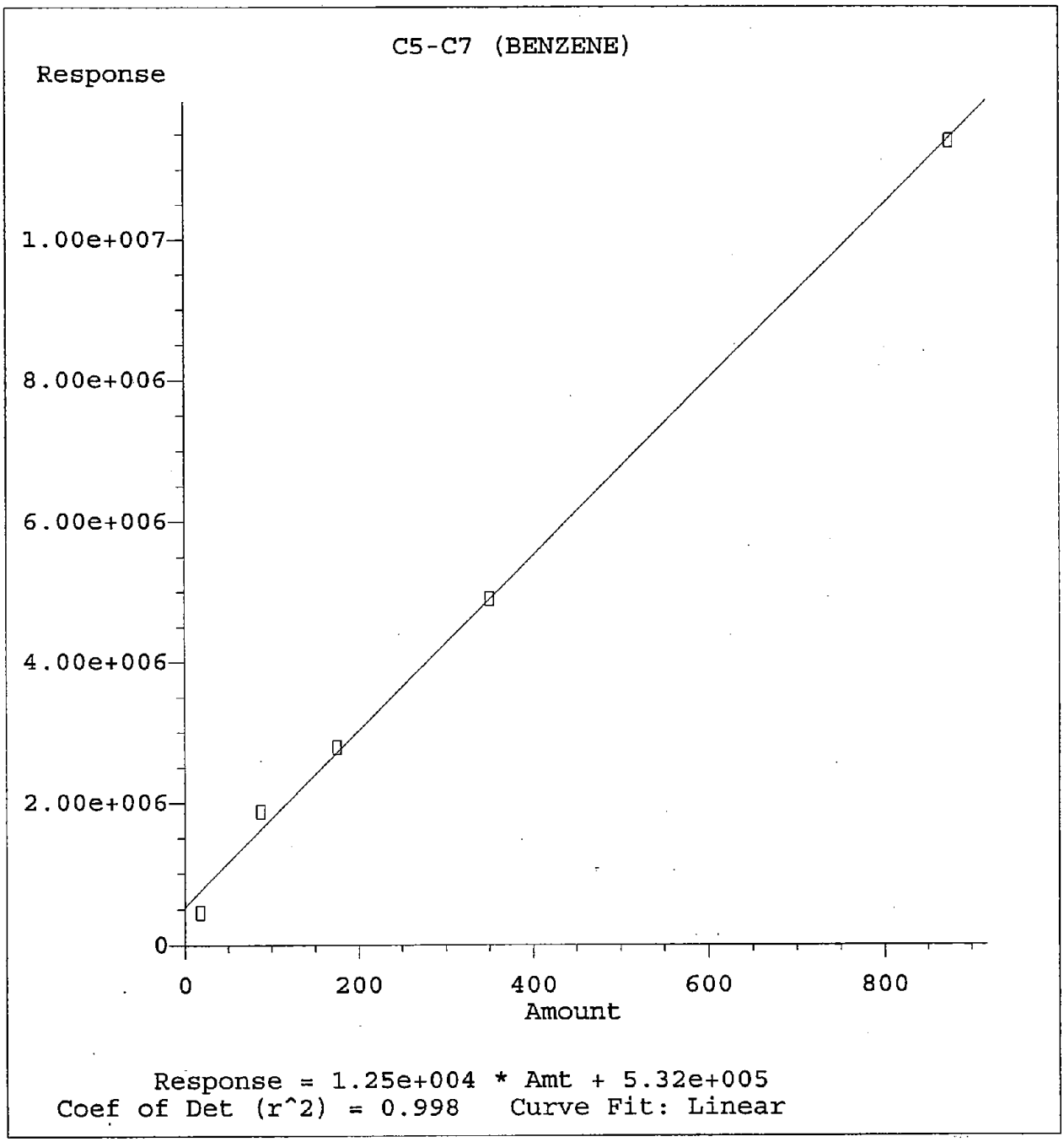
Calibration Table Last Updated: Mon Jul 28 12:56:12 2003



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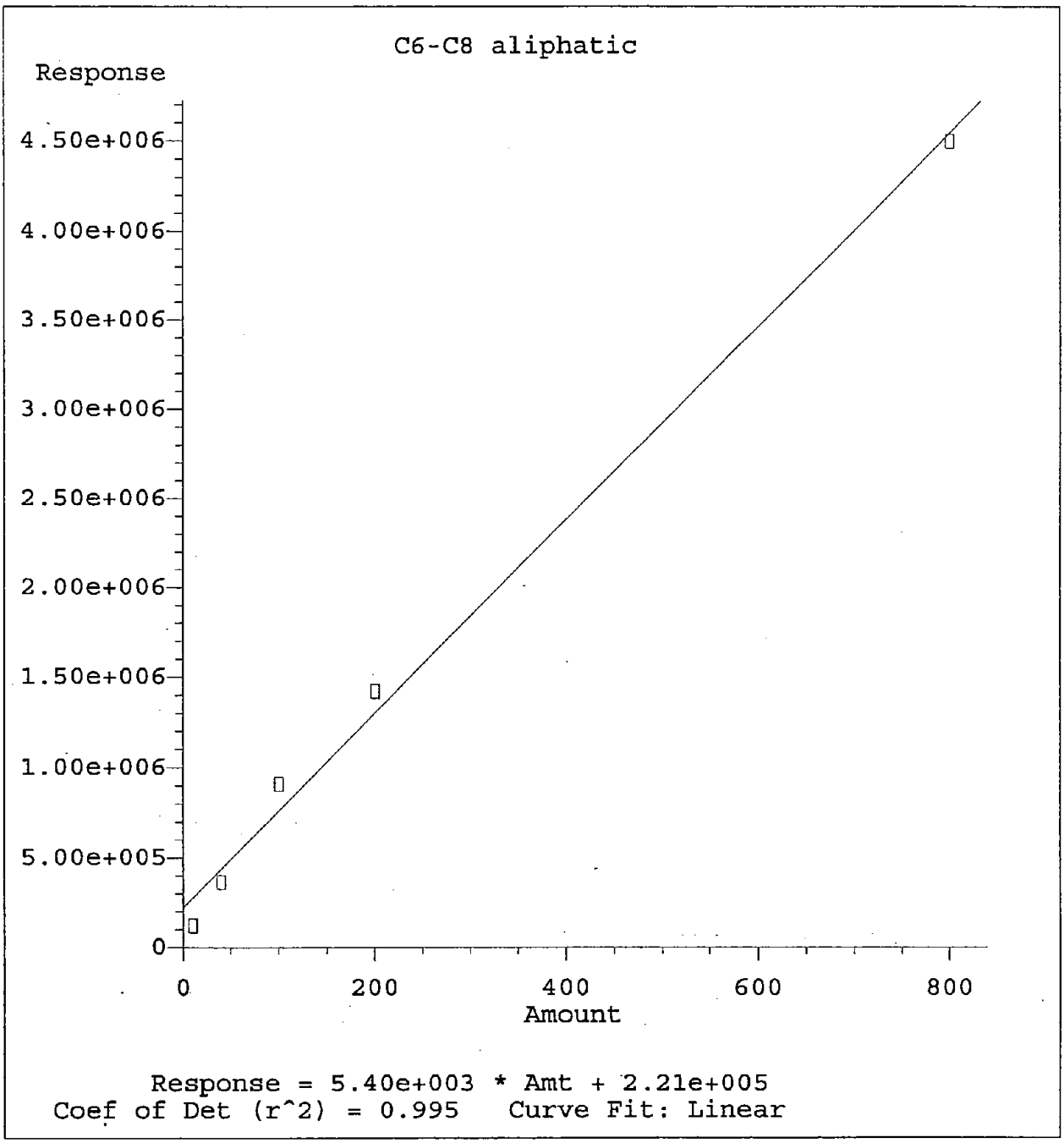
Calibration Table Last Updated: Mon Jul 28 12:56:12 2003



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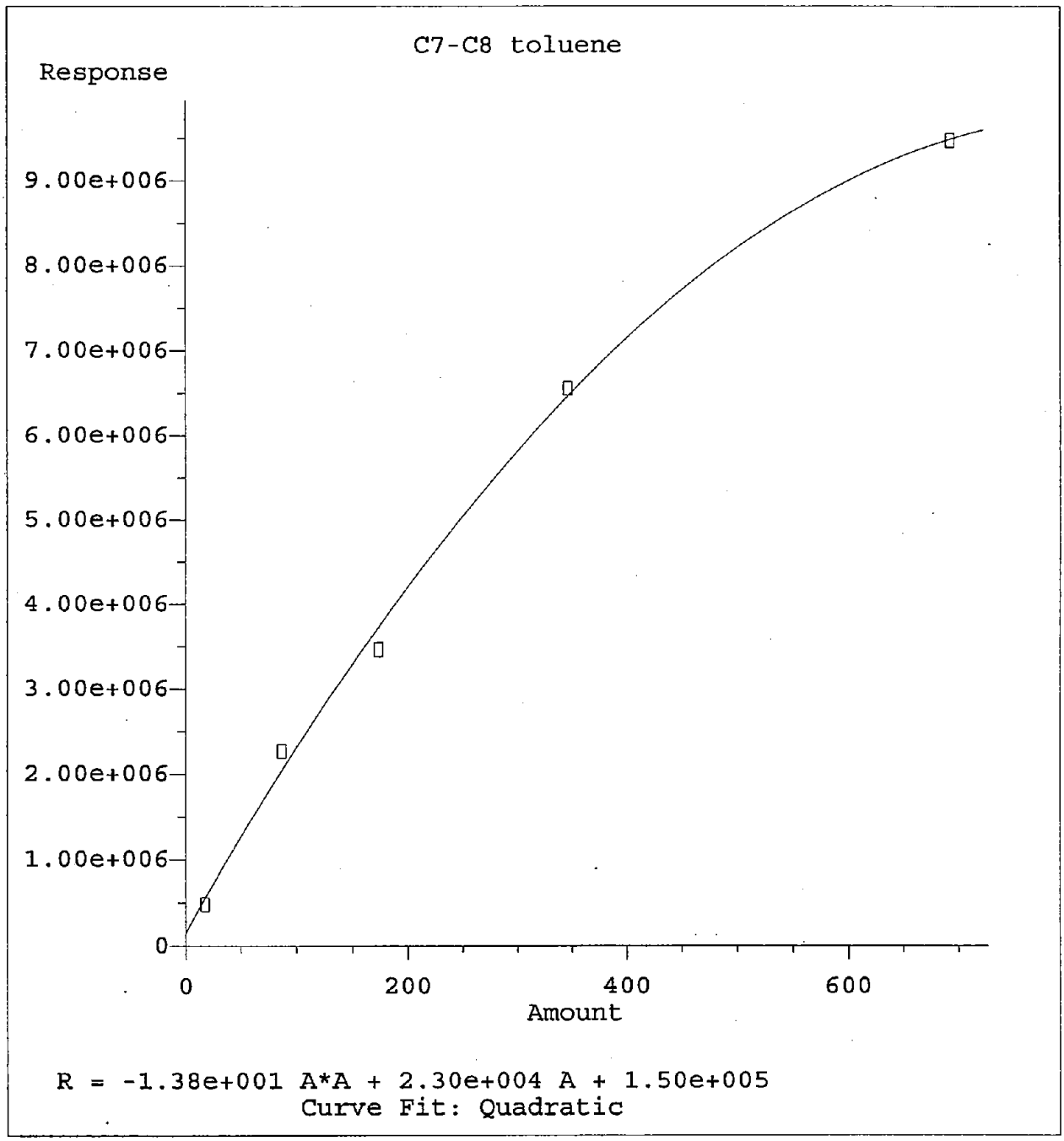
Calibration Table Last Updated: Mon Jul 28 12:56:12 2003



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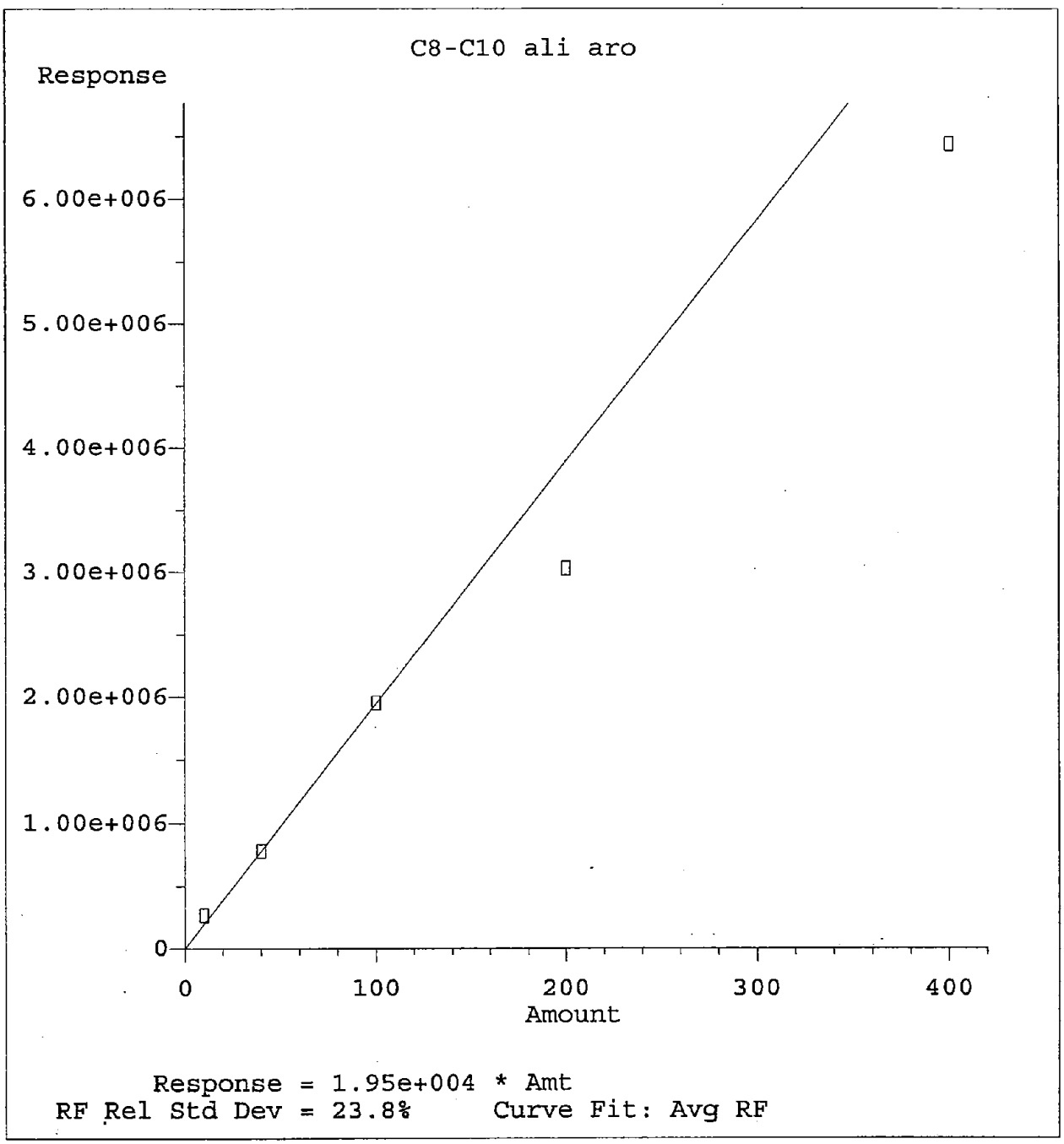

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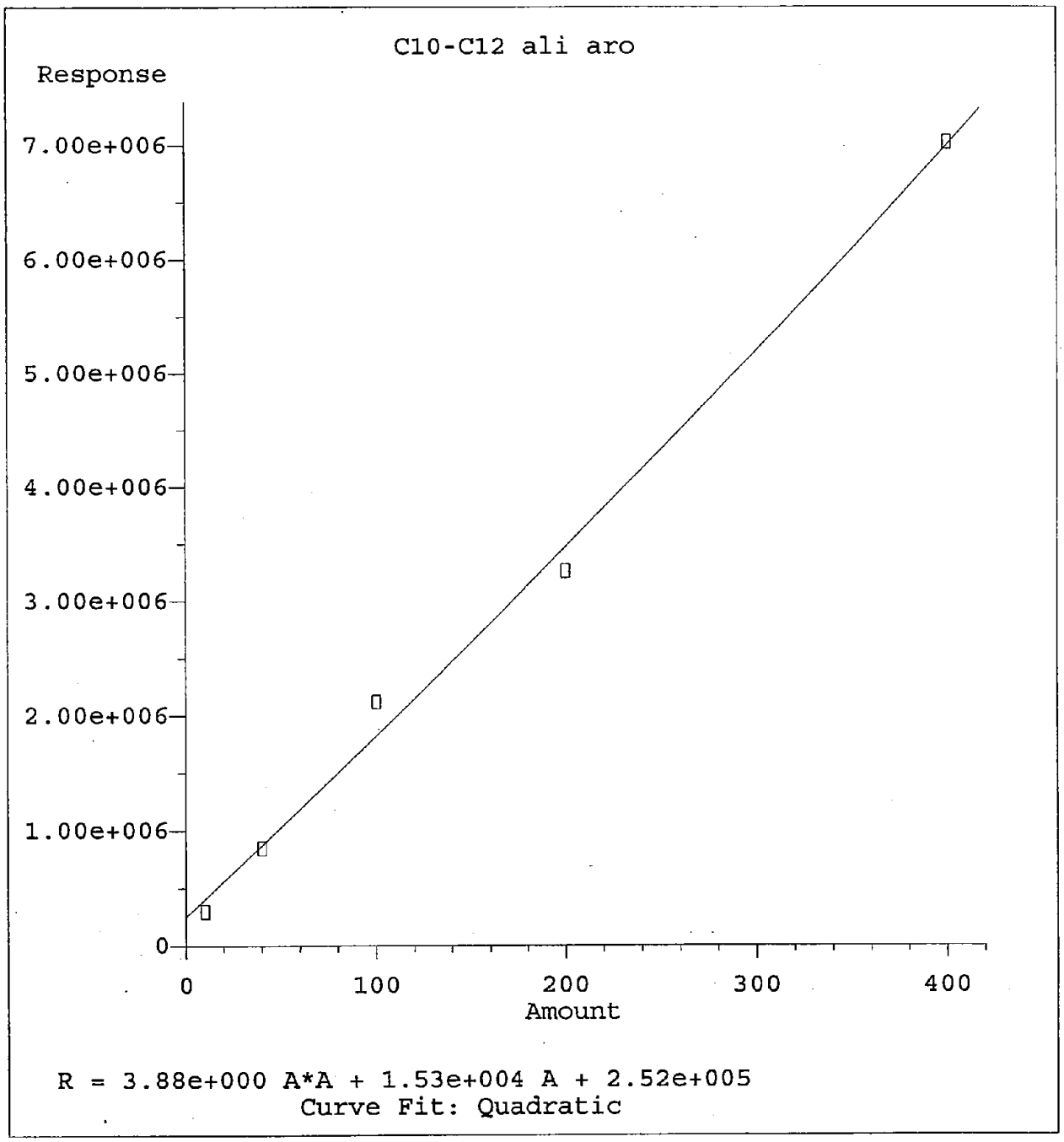

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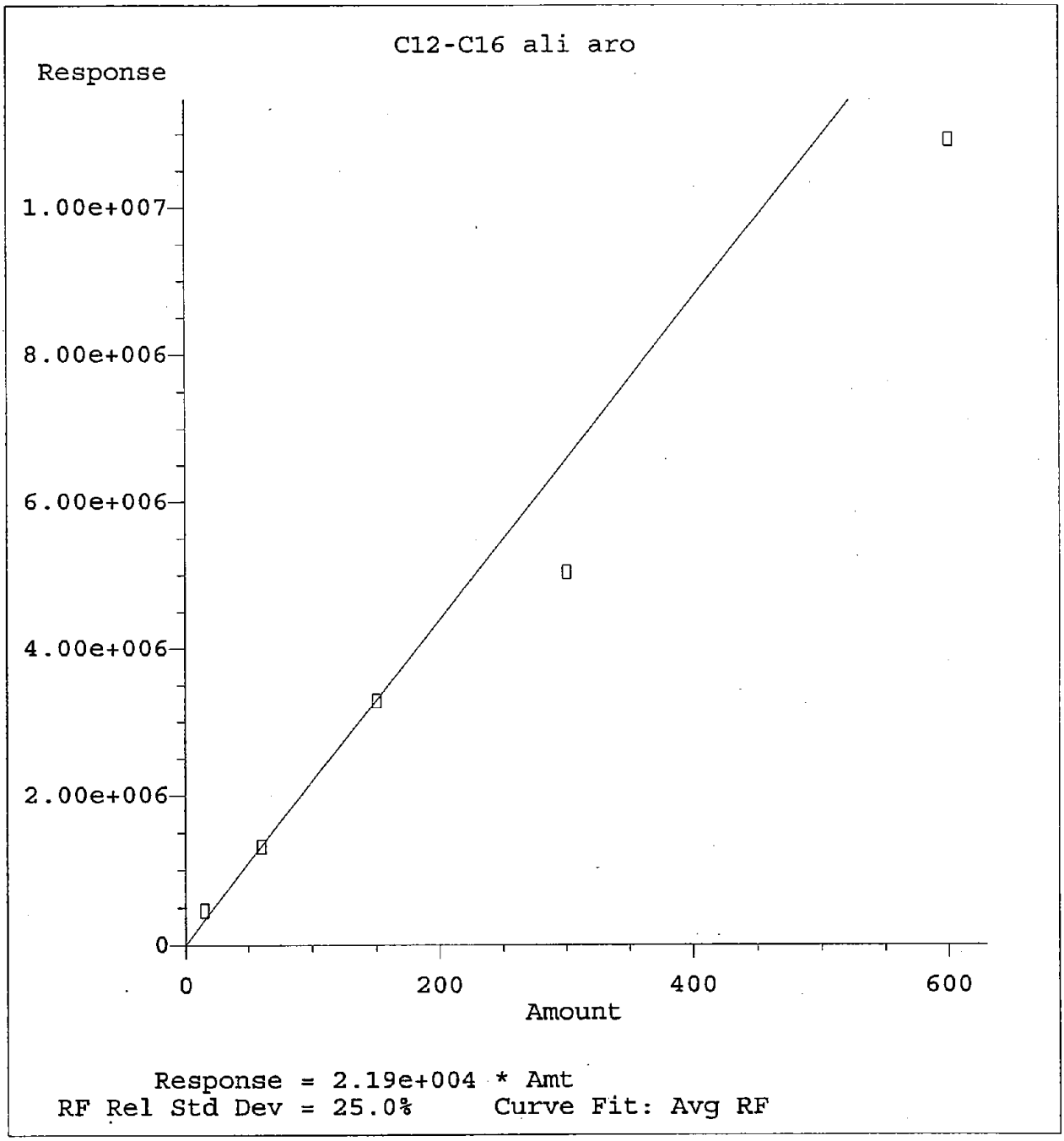

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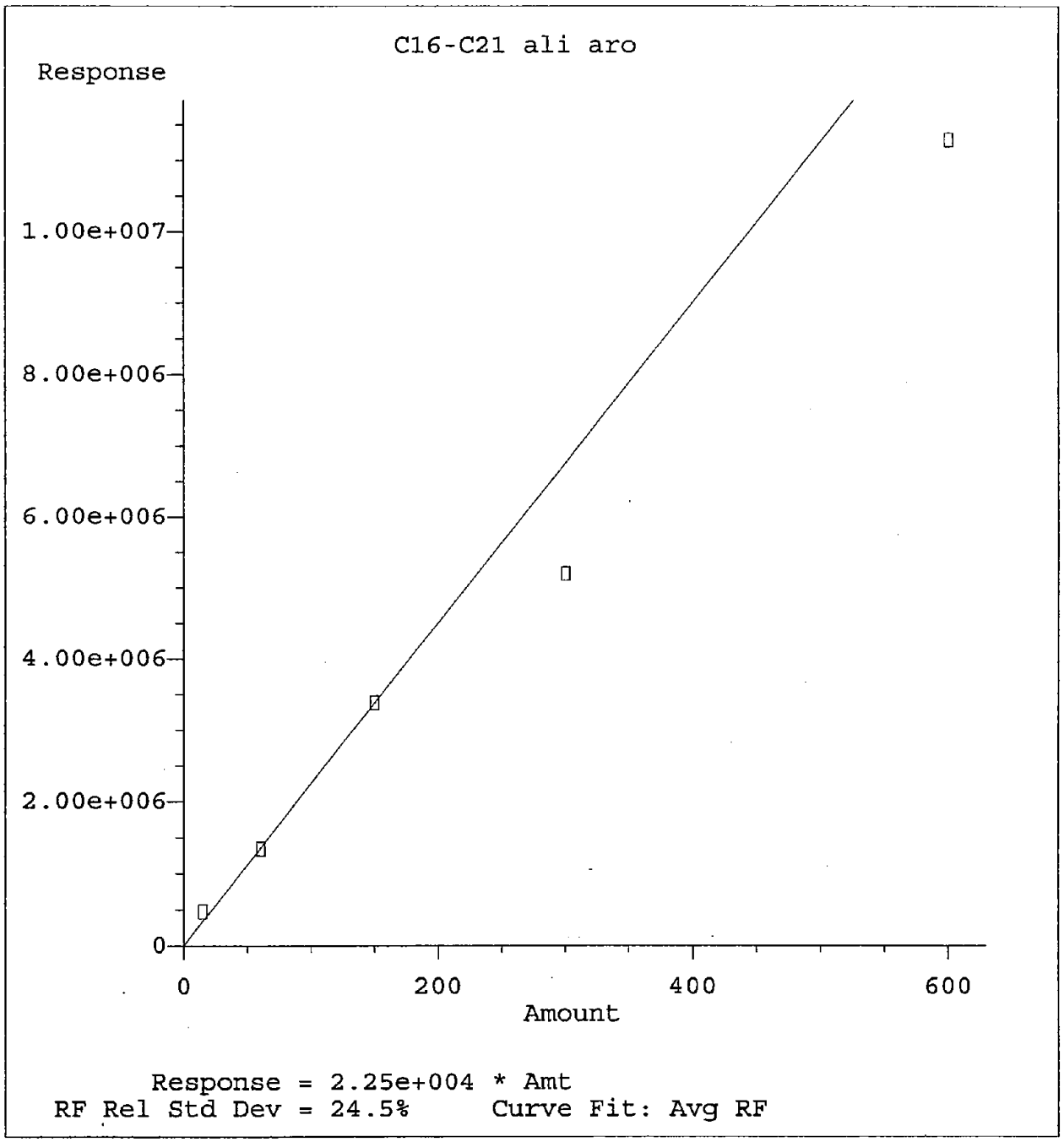

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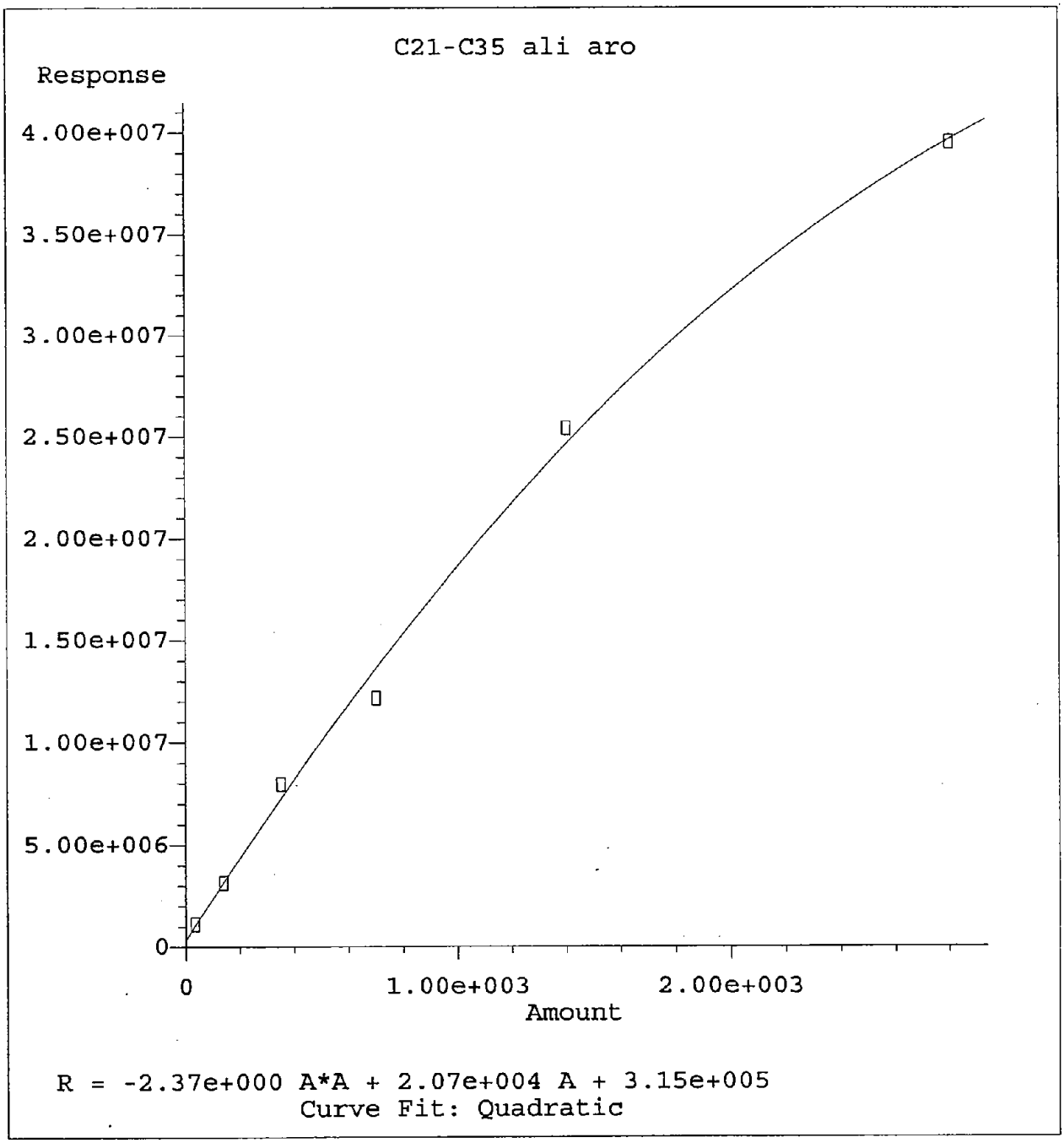

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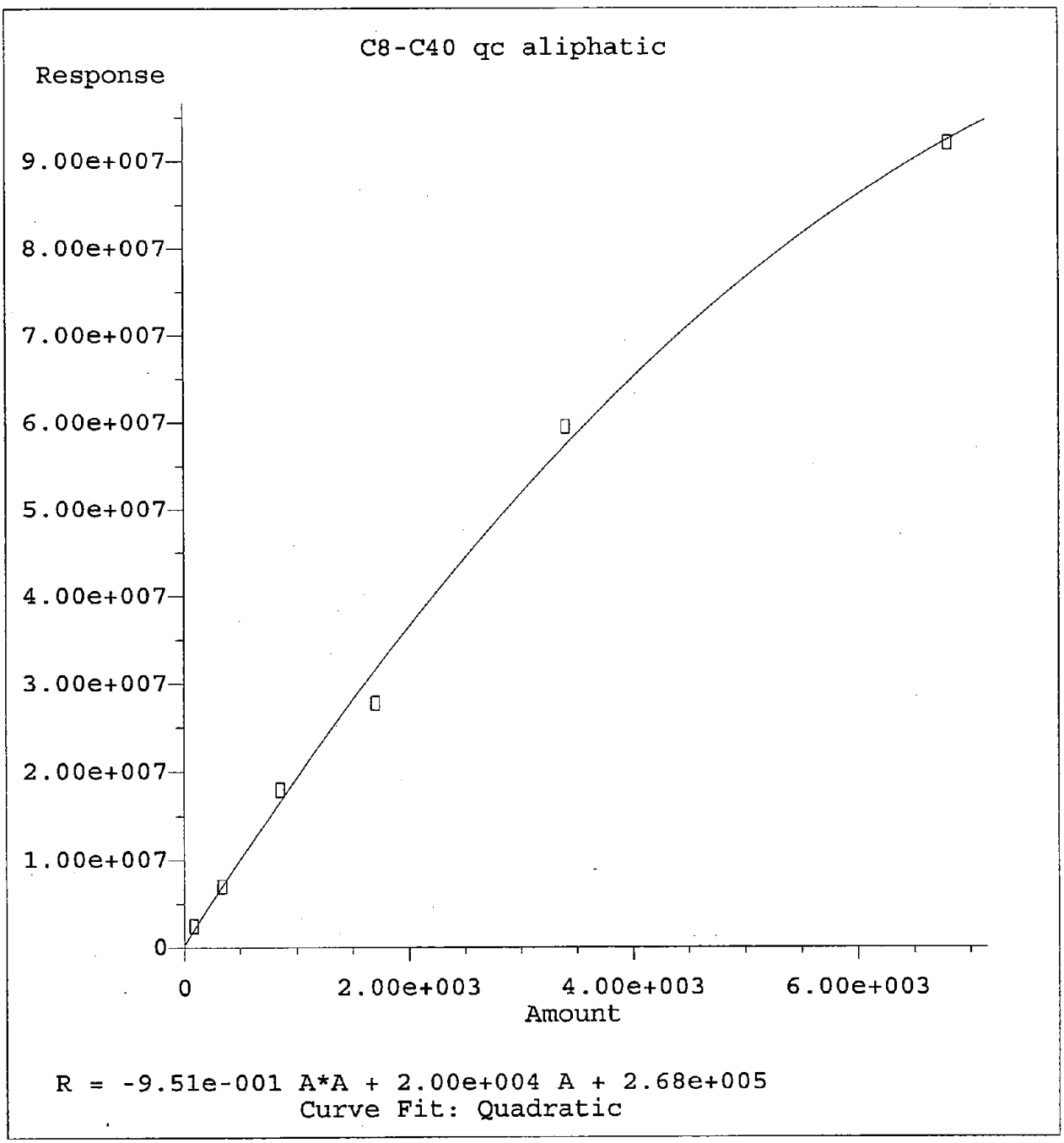

Method Name: T:\METHODS\PROCESS\WG-FL6.M
Calibration Table Last Updated: Mon Jul 28 12:56:12 2003

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **C. BRYAN** **DATE:** **DECEMBER 16, 2003**

FROM: **EDWARD SEDLMYER** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOA/SVOA/PAH/PEST/PCB/TPH**
CTO 318, NAS KEY WEST
SDG 3182

SAMPLES: 1/Aqueous

KW-TB-111203

8/Solid

IR1-CSS-01-1103	IR1-CSS-02-1103	G01-SB-01-1103L
G01-SB-05-1103M	G01-SB-19-1103H	IR1-DSB-01-1103
IR1-DSB-05-1103	KW-DUP-05-1103	

OVERVIEW

The sample set for CTO 318 NAS Key West, SDG 3182 consists of one (1) trip blank and eight (8) solid environmental samples. Samples IR1-DSB-01-1103, IR1-DSB-05-1103 and KW-TB-111203 were analyzed for target compound list (TCL) volatile organic compounds (VOCs). Samples G01-SB-01-1103L, G01-SB-05-1103M, G01-SB-19-1103H, and KW-DUP-05-1103 were analyzed for BTEX + MTBE, total petroleum hydrocarbons, and polynuclear aromatic hydrocarbons (PAHs). Samples IR1-CSS-01-1103 and IR1-CSS-02-1103 were analyzed for TCL semivolatiles organic compounds (SVOA), pesticides, and PCBs. One field duplicate was associated with this SDG: KW-DUP-05-1103 / G01-SB-19-1103H.

The samples were collected by TetraTech NUS on November 12, 13, and 17, 2003 and analyzed by Katahdin Analytical Services. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8260B, 8270C, 8270C selective ion monitoring (SIM), 8081A, 8082, and Florida-PRO analysis and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
• Holding times
* • Initial/continuing calibrations
• Laboratory method blank results
• Surrogate Recoveries
• Field Duplicates
* • Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

Volatiles

A surrogate recovery for sample IR1-DSB-01-1103 was less than the quality control criteria for surrogate p-

bromofluorobenzene. The sample was re-analyzed and had similar recoveries. Because only one surrogate was out of criteria and no compounds were detected, the data validator used the original analysis results as the valid results and no qualification of the data was deemed necessary.

The laboratory control samples (LCSs) analyzed 11/14/03 and 11/18/03 on instrument GCMS-F had recoveries above the quality control limit for acetone and 2-butanone. No qualification of the data was necessary because acetone and 2-butanone were not detected in any associated samples.

The LCS analyzed 11/18/03 on instrument GCMS-S had a recovery above the quality control limit for 2-butanone. No qualification of the data was necessary because 2-butanone was not detected in the associated sample.

The following compound was detected in the method blanks:

Compound	Maximum Concentration	Blank Action Level
Chloroform	0.4 ug/kg	2.0 ug/kg

- Value < Reporting Limit (RL); report RL followed by a U.
- Value > RL and < Action level; report value followed by a U.

Sample aliquot, percent solids, and dilution factors were taken into consideration when applying the blank action levels. Because chloroform was not detected in any associated samples, no qualification of the data was necessary. Field quality control blanks were not qualified based on laboratory method blank contamination.

The internal standard 1,4-dichlorobenzene-d4 was recovered below the 50% quality control criteria for sample IR1-DSB-01-1103. The sample was re-analyzed with similar results. No action was taken on this basis.

Semivolatiles

A surrogate recovery for the preparation blank was greater than the quality control criteria for surrogate terphenyl-d14. No action was taken on this basis.

The following compound was detected in the preparation blank:

Compound	Maximum Concentration	Blank Action Level
Bis(2-ethylhexyl)phthalate	36 ug/kg	360 ug/kg

- Value < Reporting Limit (RL); report RL followed by a U.
- Value > RL and < Action level; report value followed by a U.

Sample aliquot, percent solids, and dilution factors were taken into consideration when applying the blank action levels. The positive bis(2-ethylhexyl)phthalate result for sample IR1-CSS-01-1103 below the blank action level was qualified as non-detected, U. Field quality control blanks were not qualified based on laboratory method blank contamination.

PAHs

A surrogate recovery for sample G01-SB-01-1103L was greater than the quality control criteria for surrogate terphenyl-d14. No action was taken on this basis because only one surrogate was out in the fraction and no PAHs were detected in the sample.

Pesticides

The percent difference (%D) between analytical columns for the pesticide analyses exceeded 25% for positive results reported for several compounds in the following samples:

Sample Number	Compound	% Difference	Qualification
IR1-CSS-01-1103	4,4'-DDT	51.1%	J
IR1-CSS-02-1103	Dieldrin	47.3%	J
	4,4'-DDT	49.3%	J

The positive results have been qualified as estimated, "J".

A surrogate recovery for the laboratory control sample (LCSD) was greater than the quality control criteria for surrogate tetrachloro-m-xylene. No action was taken on this basis.

The LCS had recoveries below the quality control limit for endosulfan I and endosulfan II. The aforementioned compounds have been qualified as estimated, J in samples IR1-CSS-01-1103 and IR1-CSS-02-1103.

PCBs

The surrogate recoveries for sample IR1-CSS-02-1103 were less than the lower quality control criteria for surrogate decachlorobiphenyl on both columns. The positive PCB results for sample IR1-CSS-02-1103 have been qualified as estimated, J.

TPH

Samples G01-SB-19-1103H and KW-DUP-05-1103 were re-extracted three days outside of the hold time. The samples were re-extracted because of the high concentration of TPH in the original extraction blank. The re-extracted results for the aforementioned samples were used for validation because of the excessive contamination in the 11/20/03 preparation blank and the results have been qualified as estimated, J.

TPH was detected in the method blanks:

Compound	Maximum Concentration	Blank Action Level
TPH(1)	3.5 ug/kg	17.5 ug/kg
TPH(2)	4.2 ug/kg	21 ug/kg

(1) TPH concentration is from the original preparation blank (11/18/03).
(2) TPH concentration is from the re-extracted preparation blank (12/4/03).

- Value < Reporting Limit (RL); report RL followed by a U.
- Value > RL and < Action level; report value followed by a U.

Sample aliquot, percent solids, and dilution factors were taken into consideration when applying the blank action levels. The positive TPH result for sample G01-SB-05-1103M and associated with the preparation blank from 11/18/03 has been qualified as non-detected, U.

Surrogate recoveries were outside of the quality control criteria for a preparation blank, LCS, and LCSD for surrogate n-triacontane-d62 and/or o-terphenyl. No action was taken on this basis.

A surrogate recovery for sample G01-SB-19-1103H was less than the quality control criteria for surrogate o-

terphenyl. No action was taken on this basis because the sample was re-extracted due to blank contamination and the re-extract had acceptable surrogate recoveries.

Additional Comments:

Positive results less than the reporting limit (RL) were qualified as estimated "J", due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Several target compounds were detected in the method blanks. Several LCS recoveries were outside of criteria.

Other Factors Affecting Data Quality: Percent difference between columns exceeded criteria for several compounds. One VOA sample had a internal standard recovery below criteria. Two TPH samples were extracted outside of the holding time.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99), and the NFESC guidelines IRCDQM (Sept., 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Edward Sedlmyer
Tetra Tech NUS

Edward Sedlmyer
Chemist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: OV

nsample	KWTB-111203
samp_date	11/6/2003
lab_id	WT2857-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-HEXANONE	5	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
STYRENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	

nsample	KWTB-111203
samp_date	11/6/2003
lab_id	WT2857-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: SOIL DATA FRACTION: OV

nsample	G01-SB-01-1103L
samp_date	11/13/2003
lab_id	WT2880-1
qc_type	NM
units	UG/KG
Pct_Solids	88.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	6	U	
ETHYLBENZENE	6	U	
M+P-XYLENES	12	U	
METHYL TERT-BUTYL ETHER	12	U	
O-XYLENE	6	U	
TOLUENE	6	U	
TOTAL XYLENES	18	U	

nsample	G01-SB-05-1103M
samp_date	11/13/2003
lab_id	WT2880-2
qc_type	NM
units	UG/KG
Pct_Solids	86.4
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	6	U	
ETHYLBENZENE	6	U	
M+P-XYLENES	11	U	
METHYL TERT-BUTYL ETHER	11	U	
O-XYLENE	6	U	
TOLUENE	6	U	
TOTAL XYLENES	17	U	

nsample	G01-SB-19-1103H
samp_date	11/17/2003
lab_id	WT2913-1
qc_type	NM
units	UG/KG
Pct_Solids	87.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	6	U	
ETHYLBENZENE	6	U	
M+P-XYLENES	13	U	
METHYL TERT-BUTYL ETHER	13	U	
O-XYLENE	6	U	
TOLUENE	6	U	
TOTAL XYLENES	19	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: SOIL DATA FRACTION: OV

nsample	IR1-DSB-01-1103
samp_date	11/12/2003
lab_id	WT2857-4
qc_type	NM
units	UG/KG
Pct_Solids	90.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	7	U	
1,1,2,2-TETRACHLOROETHANE	7	U	
1,1,2-TRICHLOROETHANE	7	U	
1,1-DICHLOROETHANE	7	U	
1,1-DICHLOROETHENE	7	U	
1,2-DICHLOROETHANE	7	U	
1,2-DICHLOROPROPANE	7	U	
2-BUTANONE	35	U	
2-HEXANONE	35	U	
4-METHYL-2-PENTANONE	35	U	
ACETONE	35	U	
BENZENE	7	U	
BROMODICHLOROMETHANE	7	U	
BROMOFORM	7	U	
BROMOMETHANE	14	U	
CARBON DISULFIDE	7	U	
CARBON TETRACHLORIDE	7	U	
CHLOROBENZENE	7	U	
CHLORODIBROMOMETHANE	7	U	
CHLOROETHANE	14	U	
CHLOROFORM	7	U	
CHLOROMETHANE	14	U	
CIS-1,2-DICHLOROETHENE	7	U	
CIS-1,3-DICHLOROPROPENE	7	U	
ETHYLBENZENE	7	U	
M+P-XYLENES	14	U	
METHYLENE CHLORIDE	7	U	
O-XYLENE	7	U	
STYRENE	7	U	
TETRACHLOROETHENE	7	U	
TOLUENE	7	U	
TOTAL 1,2-DICHLOROETHENE	14	U	

nsample	IR1-DSB-01-1103
samp_date	11/12/2003
lab_id	WT2857-4
qc_type	NM
units	UG/KG
Pct_Solids	90.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL XYLENES	21	U	
TRANS-1,2-DICHLOROETHENE	7	U	
TRANS-1,3-DICHLOROPROPENE	7	U	
TRICHLOROETHENE	7	U	
VINYL CHLORIDE	14	U	

nsample	IR1-DSB-05-1103
samp_date	11/12/2003
lab_id	WT2857-3RA
qc_type	NM
units	UG/KG
Pct_Solids	92.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	5	U	
1,1,2,2-TETRACHLOROETHANE	5	U	
1,1,2-TRICHLOROETHANE	5	U	
1,1-DICHLOROETHANE	5	U	
1,1-DICHLOROETHENE	5	U	
1,2-DICHLOROETHANE	5	U	
1,2-DICHLOROPROPANE	5	U	
2-BUTANONE	27	U	
2-HEXANONE	27	U	
4-METHYL-2-PENTANONE	27	U	
ACETONE	27	U	
BENZENE	5	U	
BROMODICHLOROMETHANE	5	U	
BROMOFORM	5	U	
BROMOMETHANE	11	U	
CARBON DISULFIDE	5	U	
CARBON TETRACHLORIDE	5	U	
CHLOROBENZENE	5	U	
CHLORODIBROMOMETHANE	5	U	
CHLOROETHANE	11	U	
CHLOROFORM	5	U	
CHLOROMETHANE	11	U	
CIS-1,2-DICHLOROETHENE	5	U	
CIS-1,3-DICHLOROPROPENE	5	U	
ETHYLBENZENE	5	U	
M+P-XYLENES	11	U	
METHYLENE CHLORIDE	5	U	
O-XYLENE	5	U	
STYRENE	5	U	
TETRACHLOROETHENE	5	U	
TOLUENE	5	U	
TOTAL 1,2-DICHLOROETHENE	11	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: SOIL DATA FRACTION: OV

nsample	IR1-DSB-05-1103
samp_date	11/12/2003
lab_id	WT2857-3RA
qc_type	NM
units	UG/KG
Pct_Solids	92.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL XYLENES	16	U	
TRANS-1,2-DICHLOROETHENE	5	U	
TRANS-1,3-DICHLOROPROPENE	5	U	
TRICHLOROETHENE	5	U	
VINYL CHLORIDE	11	U	

nsample	KW-DUP-05-1103
samp_date	11/17/2003
lab_id	WT2913-2RA
qc_type	NM
units	UG/KG
Pct_Solids	89.4
DUP_OF:	G01-SB-19-1103H

Parameter	Result	Val Qual	Qual Code
BENZENE	6	U	
ETHYLBENZENE	6	U	
M+P-XYLENES	12	U	
METHYL TERT-BUTYL ETHER	12	U	
O-XYLENE	6	U	
TOLUENE	6	U	
TOTAL XYLENES	17	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: SOIL DATA FRACTION: OS

nsample	IR1-CSS-01-1103	nsample	IR1-CSS-01-1103	nsample	IR1-CSS-02-1103
samp_date	11/12/2003	samp_date	11/12/2003	samp_date	11/12/2003
lab_id	WT2857-1	lab_id	WT2857-1	lab_id	WT2857-2
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	92.4	Pct_Solids	92.4	Pct_Solids	90.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	360	U	
1,2-DICHLOROBENZENE	360	U	
1,3-DICHLOROBENZENE	360	U	
1,4-DICHLOROBENZENE	360	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	360	U	
2,4,5-TRICHLOROPHENOL	890	U	
2,4,6-TRICHLOROPHENOL	360	U	
2,4-DICHLOROPHENOL	360	U	
2,4-DIMETHYLPHENOL	360	U	
2,4-DINITROPHENOL	890	U	
2,4-DINITROTOLUENE	360	U	
2,6-DINITROTOLUENE	360	U	
2-CHLORONAPHTHALENE	360	U	
2-CHLOROPHENOL	360	U	
2-METHYLNAPHTHALENE	360	U	
2-METHYLPHENOL	360	U	
2-NITROANILINE	890	U	
2-NITROPHENOL	360	U	
3,3'-DICHLOROBENZIDINE	360	U	
3-NITROANILINE	890	U	
4,6-DINITRO-2-METHYLPHENOL	890	U	
4-BROMOPHENYL PHENYL ETHER	360	U	
4-CHLORO-3-METHYLPHENOL	360	U	
4-CHLOROANILINE	360	U	
4-CHLOROPHENYL PHENYL ETHER	360	U	
4-METHYLPHENOL	360	U	
4-NITROANILINE	890	U	
4-NITROPHENOL	890	U	
ACENAPHTHENE	360	U	
ACENAPHTHYLENE	360	U	
ANTHRACENE	360	U	
BENZO(A)ANTHRACENE	65	J	P

Parameter	Result	Val Qual	Qual Code
BENZO(A)PYRENE	75	J	P
BENZO(B)FLUORANTHENE	110	J	P
BENZO(G,H,I)PERYLENE	55	J	P
BENZO(K)FLUORANTHENE	58	J	P
BIS(2-CHLOROETHOXY)METHANE	360	U	
BIS(2-CHLOROETHYL)ETHER	360	U	
BIS(2-ETHYLHEXYL)PHTHALATE	360	U	A
BUTYL BENZYL PHTHALATE	360	U	
CARBAZOLE	360	U	
CHRYSENE	87	J	P
DIBENZO(A,H)ANTHRACENE	360	U	
DIBENZOFURAN	360	U	
DIETHYL PHTHALATE	360	U	
DIMETHYL PHTHALATE	360	U	
DI-N-BUTYL PHTHALATE	360	U	
DI-N-OCTYL PHTHALATE	360	U	
FLUORANTHENE	110	J	P
FLUORENE	360	U	
HEXACHLOROBENZENE	360	U	
HEXACHLOROBUTADIENE	360	U	
HEXACHLOROCYCLOPENTADIENE	360	U	
HEXACHLOROETHANE	360	U	
INDENO(1,2,3-CD)PYRENE	61	J	P
ISOPHORONE	360	U	
NAPHTHALENE	360	U	
NITROBENZENE	360	U	
N-NITROSO-DI-N-PROPYLAMINE	360	U	
N-NITROSODIPHENYLAMINE	360	U	
PENTACHLOROPHENOL	890	U	
PHENANTHRENE	46	J	P
PHENOL	360	U	
PYRENE	100	J	P

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	370	U	
1,2-DICHLOROBENZENE	370	U	
1,3-DICHLOROBENZENE	370	U	
1,4-DICHLOROBENZENE	370	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	370	U	
2,4,5-TRICHLOROPHENOL	910	U	
2,4,6-TRICHLOROPHENOL	370	U	
2,4-DICHLOROPHENOL	370	U	
2,4-DIMETHYLPHENOL	370	U	
2,4-DINITROPHENOL	910	U	
2,4-DINITROTOLUENE	370	U	
2,6-DINITROTOLUENE	370	U	
2-CHLORONAPHTHALENE	370	U	
2-CHLOROPHENOL	370	U	
2-METHYLNAPHTHALENE	370	U	
2-METHYLPHENOL	370	U	
2-NITROANILINE	910	U	
2-NITROPHENOL	370	U	
3,3'-DICHLOROBENZIDINE	370	U	
3-NITROANILINE	910	U	
4,6-DINITRO-2-METHYLPHENOL	910	U	
4-BROMOPHENYL PHENYL ETHER	370	U	
4-CHLORO-3-METHYLPHENOL	370	U	
4-CHLOROANILINE	370	U	
4-CHLOROPHENYL PHENYL ETHER	370	U	
4-METHYLPHENOL	370	U	
4-NITROANILINE	910	U	
4-NITROPHENOL	910	U	
ACENAPHTHENE	370	U	
ACENAPHTHYLENE	370	U	
ANTHRACENE	34	J	P
BENZO(A)ANTHRACENE	170	J	P

PROJ_NO: 4779

SDG: 3182 MEDIA: SOIL DATA FRACTION: OS

nsample	IR1-CSS-02-1103
samp_date	11/12/2003
lab_id	WT2857-2
qc_type	NM
units	UG/KG
Pct_Solids	90.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)PYRENE	180	J	P
BENZO(B)FLUORANTHENE	280	J	P
BENZO(G,H,I)PERYLENE	160	J	P
BENZO(K)FLUORANTHENE	140	J	P
BIS(2-CHLOROETHOXY)METHANE	370	U	
BIS(2-CHLOROETHYL)ETHER	370	U	
BIS(2-ETHYLHEXYL)PHTHALATE	910		
BUTYL BENZYL PHTHALATE	6000		
CARBAZOLE	25	J	P
CHRYSENE	200	J	P
DIBENZO(A,H)ANTHRACENE	38	J	P
DIBENZOFURAN	370	U	
DIETHYL PHTHALATE	370	U	
DIMETHYL PHTHALATE	370	U	
DI-N-BUTYL PHTHALATE	370	U	
DI-N-OCTYL PHTHALATE	370	U	
FLUORANTHENE	290	J	P
FLUORENE	370	U	
HEXACHLOROBENZENE	370	U	
HEXACHLOROBUTADIENE	370	U	
HEXACHLOROCYCLOPENTADIENE	370	U	
HEXACHLOROETHANE	370	U	
INDENO(1,2,3-CD)PYRENE	160	J	P
ISOPHORONE	370	U	
NAPHTHALENE	370	U	
NITROBENZENE	370	U	
N-NITROSO-DI-N-PROPYLAMINE	370	U	
N-NITROSODIPHENYLAMINE	370	U	
PENTACHLOROPHENOL	910	U	
PHENANTHRENE	160	J	P
PHENOL	370	U	
PYRENE	270	J	P

PROJ_NO: 4779

SDG: 3182 MEDIA: SOIL DATA FRACTION: PAH

nsample	G01-SB-01-1103L
samp_date	11/13/2003
lab_id	WT2880-1
qc_type	NM
units	UG/KG
Pct_Solids	88.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	370	U	
2-METHYLNAPHTHALENE	370	U	
ACENAPHTHENE	370	U	
ACENAPHTHYLENE	370	U	
ANTHRACENE	370	U	
BENZO(A)ANTHRACENE	370	U	
BENZO(A)PYRENE	370	U	
BENZO(B)FLUORANTHENE	370	U	
BENZO(G,H,I)PERYLENE	370	U	
BENZO(K)FLUORANTHENE	370	U	
CHRYSENE	370	U	
DIBENZO(A,H)ANTHRACENE	370	U	
FLUORANTHENE	370	U	
FLUORENE	370	U	
INDENO(1,2,3-CD)PYRENE	370	U	
NAPHTHALENE	370	U	
PHENANTHRENE	370	U	
PYRENE	370	U	

nsample	G01-SB-05-1103M
samp_date	11/13/2003
lab_id	WT2880-2
qc_type	NM
units	UG/KG
Pct_Solids	86.4
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	380	U	
2-METHYLNAPHTHALENE	380	U	
ACENAPHTHENE	380	U	
ACENAPHTHYLENE	380	U	
ANTHRACENE	380	U	
BENZO(A)ANTHRACENE	380	U	
BENZO(A)PYRENE	380	U	
BENZO(B)FLUORANTHENE	380	U	
BENZO(G,H,I)PERYLENE	380	U	
BENZO(K)FLUORANTHENE	380	U	
CHRYSENE	380	U	
DIBENZO(A,H)ANTHRACENE	380	U	
FLUORANTHENE	380	U	
FLUORENE	380	U	
INDENO(1,2,3-CD)PYRENE	380	U	
NAPHTHALENE	380	U	
PHENANTHRENE	380	U	
PYRENE	380	U	

nsample	G01-SB-19-1103H
samp_date	11/17/2003
lab_id	WT2913-1
qc_type	NM
units	UG/KG
Pct_Solids	87.6
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	380	U	
2-METHYLNAPHTHALENE	380	U	
ACENAPHTHENE	380	U	
ACENAPHTHYLENE	380	U	
ANTHRACENE	380	U	
BENZO(A)ANTHRACENE	380	U	
BENZO(A)PYRENE	380	U	
BENZO(B)FLUORANTHENE	380	U	
BENZO(G,H,I)PERYLENE	380	U	
BENZO(K)FLUORANTHENE	380	U	
CHRYSENE	380	U	
DIBENZO(A,H)ANTHRACENE	380	U	
FLUORANTHENE	380	U	
FLUORENE	380	U	
INDENO(1,2,3-CD)PYRENE	380	U	
NAPHTHALENE	380	U	
PHENANTHRENE	380	U	
PYRENE	380	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: SOIL DATA FRACTION: PAH

nsample	KW-DUP-05-1103
samp_date	11/17/2003
lab_id	WT2913-2
qc_type	NM
units	UG/KG
Pct_Solids	89.4
DUP_OF:	G01-SB-19-1103H

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	370	U	
2-METHYLNAPHTHALENE	370	U	
ACENAPHTHENE	370	U	
ACENAPHTHYLENE	370	U	
ANTHRACENE	370	U	
BENZO(A)ANTHRACENE	370	U	
BENZO(A)PYRENE	370	U	
BENZO(B)FLUORANTHENE	370	U	
BENZO(G,H,I)PERYLENE	370	U	
BENZO(K)FLUORANTHENE	370	U	
CHRYSENE	370	U	
DIBENZO(A,H)ANTHRACENE	370	U	
FLUORANTHENE	370	U	
FLUORENE	370	U	
INDENO(1,2,3-CD)PYRENE	370	U	
NAPHTHALENE	370	U	
PHENANTHRENE	370	U	
PYRENE	370	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	IR1-CSS-01-1103	nsample	IR1-CSS-02-1103
samp_date	11/12/2003	samp_date	11/12/2003
lab_id	WT2857-1	lab_id	WT2857-2
qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG
Pct_Solids	92.4	Pct_Solids	90.0
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	3.6	U	
4,4'-DDE	8.2		
4,4'-DDT	8.9	J	U
ALDRIN	1.8	U	
ALPHA-BHC	1.8	U	
ALPHA-CHLORDANE	1.8	U	
AROCLOR-1016	18	U	
AROCLOR-1221	18	U	
AROCLOR-1232	18	U	
AROCLOR-1242	18	U	
AROCLOR-1248	18	U	
AROCLOR-1254	18	U	
AROCLOR-1260	26		
BETA-BHC	1.8	U	
DELTA-BHC	1.8	U	
DIELDRIN	3.6	U	
ENDOSULFAN I	1.8	UJ	E
ENDOSULFAN II	3.6	UJ	E
ENDOSULFAN SULFATE	3.6	U	
ENDRIN	3.6	U	
ENDRIN ALDEHYDE	3.6	U	
ENDRIN KETONE	3.6	U	
GAMMA-BHC (LINDANE)	1.8	U	
GAMMA-CHLORDANE	1.8	U	
HEPTACHLOR	1.8	U	
HEPTACHLOR EPOXIDE	1.8	U	
METHOXYCHLOR	18	U	
TOXAPHENE	36	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	3.7	U	
4,4'-DDE	57		
4,4'-DDT	35	J	U
ALDRIN	1.9	U	
ALPHA-BHC	1.9	U	
ALPHA-CHLORDANE	1.9	U	
AROCLOR-1016	19	U	
AROCLOR-1221	19	U	
AROCLOR-1232	19	U	
AROCLOR-1242	19	U	
AROCLOR-1248	19	U	
AROCLOR-1254	38	J	R
AROCLOR-1260	170	J	R
BETA-BHC	1.9	U	
DELTA-BHC	1.9	U	
DIELDRIN	9.5	J	U
ENDOSULFAN I	1.9	UJ	E
ENDOSULFAN II	3.7	UJ	E
ENDOSULFAN SULFATE	3.7	U	
ENDRIN	3.7	U	
ENDRIN ALDEHYDE	3.7	U	
ENDRIN KETONE	3.7	U	
GAMMA-BHC (LINDANE)	1.9	U	
GAMMA-CHLORDANE	1.9	U	
HEPTACHLOR	1.9	U	
HEPTACHLOR EPOXIDE	1.9	U	
METHOXYCHLOR	19	U	
TOXAPHENE	37	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: SOIL DATA FRACTION: PET

nsample	G01-SB-01-1103L	nsample	G01-SB-05-1103M	nsample	G01-SB-19-1103H
samp_date	11/13/2003	samp_date	11/13/2003	samp_date	11/17/2003
lab_id	WT2880-1	lab_id	WT2880-2	lab_id	WT2913-1RE
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	88.6	Pct_Solids	86.4	Pct_Solids	87.6
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	83		

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	4.2	U	A

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	93	J	H

PROJ_NO: 4779

SDG: 3182 MEDIA: SOIL DATA FRACTION: PET

nsample	KW-DUP-05-1103
samp_date	11/17/2003
lab_id	WT2913-2RE
qc_type	NM
units	MG/KG
Pct_Solids	89.4
DUP_OF:	G01-SB-19-1103H

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	71	J	H

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/06/03
Received Date: 11/13/03
Extraction Date:
Analysis Date: 11/18/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2857-5
Client ID: KWTB-111203
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4630
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
67-64-1	Acetone	U	5	1.0	5	5	3
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
67-66-3	Chloroform	U	1	1.0	1	1	0.2
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
75-25-2	Bromoform	U	1	1.0	1	1	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	1
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
100-42-5	Styrene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
1868-53-7	Dibromofluoromethane		97%				
17060-07-0	1,2-Dichloroethane-D4		104%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		89%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/18/03
Report Date: 12/08/2003
Matrix: SOIL
% Solids: 89.4

Lab ID: WT2913-2RA
Client ID: KW-DUP-05-1103
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5035
Analyst: JLP
Analysis Method: SW846 8260B
Lab Prep Batch: WG4629
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	6	1.0	5	6	3
71-43-2	Benzene	U	6	1.0	5	6	1
100-41-4	Ethylbenzene	U	6	1.0	5	6	1
	m+p-Xylenes	U	12	1.0	10	12	2
1330-20-7	Xylenes (total)	U	17	1.0	15	17	3
1634-04-4	Methyl tert-butyl ether	U	12	1.0	10	12	2
95-47-6	o-Xylene	U	6	1.0	5	6	1
1868-53-7	Dibromofluoromethane		83%				
17060-07-0	1,2-Dichloroethane-D4		96%				
2037-26-5	Toluene-D8		85%				
460-00-4	P-Bromofluorobenzene		80%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/18/03
Report Date: 12/08/2003
Matrix: SOIL
% Solids: 88.6

Lab ID: WT2880-1
Client ID: G01-SB-01-1103L
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5035
Analyst: JLP
Analysis Method: SW846 8260B
Lab Prep Batch: WG4629
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	6	1.0	5	6	3
71-43-2	Benzene	U	6	1.0	5	6	1
100-41-4	Ethylbenzene	U	6	1.0	5	6	1
	m+p-Xylenes	U	12	1.0	10	12	2
1330-20-7	Xylenes (total)	U	18	1.0	15	18	4
1634-04-4	Methyl tert-butyl ether	U	12	1.0	10	12	2
95-47-6	o-Xylene	U	6	1.0	5	6	1
1868-53-7	Dibromofluoromethane		82%				
17060-07-0	1,2-Dichloroethane-D4		102%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		88%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date:
Analysis Date: 11/18/03
Report Date: 12/08/2003
Matrix: SOIL
% Solids: 86.4

Lab ID: WT2880-2
Client ID: G01-SB-05-1103M
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5035
Analyst: JLP
Analysis Method: SW846 8260B
Lab Prep Batch: WG4629
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	6	1.0	5	6	3
71-43-2	Benzene	U	6	1.0	5	6	1
100-41-4	Ethylbenzene	U	6	1.0	5	6	1
	m+p-Xylenes	U	11	1.0	10	11	2
1330-20-7	Xylenes (total)	U	17	1.0	15	17	3
1634-04-4	Methyl tert-butyl ether	U	11	1.0	10	11	2
95-47-6	o-Xylene	U	6	1.0	5	6	1
1868-53-7	Dibromofluoromethane		80%				
17060-07-0	1,2-Dichloroethane-D4		93%				
2037-26-5	Toluene-D8		85%				
460-00-4	P-Bromofluorobenzene		85%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/18/03
Report Date: 12/08/2003
Matrix: SOIL
% Solids: 87.6

Lab ID: WT2913-1
Client ID: G01-SB-19-1103H
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5035
Analyst: JLP
Analysis Method: SW846 8260B
Lab Prep Batch: WG4629
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-88-3	Toluene	U	6	1.0	5	6	3
71-43-2	Benzene	U	6	1.0	5	6	2
100-41-4	Ethylbenzene	U	6	1.0	5	6	2
	m+p-Xylenes	U	13	1.0	10	13	3
1330-20-7	Xylenes (total)	U	19	1.0	15	19	4
1634-04-4	Methyl tert-butyl ether	U	13	1.0	10	13	2
95-47-6	o-Xylene	U	6	1.0	5	6	1
1868-53-7	Dibromofluoromethane		84%				
17060-07-0	1,2-Dichloroethane-D4		96%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/12/03
Received Date: 11/13/03
Extraction Date:
Analysis Date: 11/14/03
Report Date: 12/03/2003
Matrix: SOIL
% Solids: 90.6

Lab ID: WT2857-4
Client ID: IR1-DSB-01-1103
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5035
Analyst: JLP
Analysis Method: SW846 8260B
Lab Prep Batch: WG4544
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	14	1.0	10	14	4
74-83-9	Bromomethane	U	14	1.0	10	14	3
75-01-4	Vinyl chloride	U	14	1.0	10	14	2
75-00-3	Chloroethane	U	14	1.0	10	14	4
75-09-2	Methylene Chloride	U	7	1.0	5	7	6
67-64-1	Acetone	U	35	1.0	25	35	13
75-15-0	Carbon Disulfide	U	7	1.0	5	7	2
75-35-4	1,1-Dichloroethene	U	7	1.0	5	7	2
75-34-3	1,1-Dichloroethane	U	7	1.0	5	7	2
156-59-2	cis-1,2-Dichloroethene	U	7	1.0	5	7	2
156-60-5	trans-1,2-Dichloroethene	U	7	1.0	5	7	2
67-66-3	Chloroform	U	7	1.0	5	7	1
107-06-2	1,2-Dichloroethane	U	7	1.0	5	7	2
78-93-3	2-Butanone	U	35	1.0	25	35	10
71-55-6	1,1,1-Trichloroethane	U	7	1.0	5	7	2
56-23-5	Carbon Tetrachloride	U	7	1.0	5	7	2
75-27-4	Bromodichloromethane	U	7	1.0	5	7	1
78-87-5	1,2-Dichloropropane	U	7	1.0	5	7	3
10061-01-5	cis-1,3-dichloropropene	U	7	1.0	5	7	3
79-01-6	Trichloroethene	U	7	1.0	5	7	3
124-48-1	Dibromochloromethane	U	7	1.0	5	7	2
79-00-5	1,1,2-Trichloroethane	U	7	1.0	5	7	2
71-43-2	Benzene	U	7	1.0	5	7	2
10061-02-6	trans-1,3-Dichloropropene	U	7	1.0	5	7	3
75-25-2	Bromoform	U	7	1.0	5	7	2
108-10-1	4-methyl-2-pentanone	U	35	1.0	25	35	17
591-78-6	2-Hexanone	U	35	1.0	25	35	12
127-18-4	Tetrachloroethene	U	7	1.0	5	7	2
79-34-5	1,1,2,2-Tetrachloroethane	U	7	1.0	5	7	3
108-88-3	Toluene	U	7	1.0	5	7	4
540-59-0	1,2-Dichloroethylene (total)	U	14	1.0	10	14	4
108-90-7	Chlorobenzene	U	7	1.0	5	7	2
100-41-4	Ethylbenzene	U	7	1.0	5	7	2
100-42-5	Styrene	U	7	1.0	5	7	1
	m+p-Xylenes	U	14	1.0	10	14	3
95-47-6	o-Xylene	U	7	1.0	5	7	1
1330-20-7	Xylenes (total)	U	21	1.0	15	21	4
1868-53-7	Dibromofluoromethane		73%				
17060-07-0	1,2-Dichloroethane-D4		73%				
2037-26-5	Toluene-D8		80%				
460-00-4	P-Bromofluorobenzene		* 49%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/12/03
Received Date: 11/13/03
Extraction Date:
Analysis Date: 11/18/03
Report Date: 12/03/2003
Matrix: SOIL
% Solids: 90.6

Lab ID: WT2857-4RA
Client ID: IR1-DSB-01-1103
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5035
Analyst: JLP
Analysis Method: SW846 8260B
Lab Prep Batch: WG4629
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	13	1.0	10	13	4
74-83-9	Bromomethane	U	13	1.0	10	13	3
75-01-4	Vinyl chloride	U	13	1.0	10	13	2
75-00-3	Chloroethane	U	13	1.0	10	13	3
75-09-2	Methylene Chloride	U	6	1.0	5	6	5
67-64-1	Acetone	U	32	1.0	25	32	12
75-15-0	Carbon Disulfide	U	6	1.0	5	6	2
75-35-4	1,1-Dichloroethene	U	6	1.0	5	6	2
75-34-3	1,1-Dichloroethane	U	6	1.0	5	6	2
156-59-2	cis-1,2-Dichloroethene	U	6	1.0	5	6	2
156-60-5	trans-1,2-Dichloroethene	U	6	1.0	5	6	2
67-66-3	Chloroform	U	6	1.0	5	6	1
107-06-2	1,2-Dichloroethane	U	6	1.0	5	6	2
78-93-3	2-Butanone	U	32	1.0	25	32	10
71-55-6	1,1,1-Trichloroethane	U	6	1.0	5	6	2
56-23-5	Carbon Tetrachloride	U	6	1.0	5	6	2
75-27-4	Bromodichloromethane	U	6	1.0	5	6	1
78-87-5	1,2-Dichloropropane	U	6	1.0	5	6	3
10061-01-5	cis-1,3-dichloropropene	U	6	1.0	5	6	3
79-01-6	Trichloroethene	U	6	1.0	5	6	3
124-48-1	Dibromochloromethane	U	6	1.0	5	6	2
79-00-5	1,1,2-Trichloroethane	U	6	1.0	5	6	2
71-43-2	Benzene	U	6	1.0	5	6	2
10061-02-6	trans-1,3-Dichloropropene	U	6	1.0	5	6	2
75-25-2	Bromoform	U	6	1.0	5	6	2
108-10-1	4-methyl-2-pentanone	U	32	1.0	25	32	16
591-78-6	2-Hexanone	U	32	1.0	25	32	11
127-18-4	Tetrachloroethene	U	6	1.0	5	6	2
79-34-5	1,1,2,2-Tetrachloroethane	U	6	1.0	5	6	3
108-88-3	Toluene	U	6	1.0	5	6	3
540-59-0	1,2-Dichloroethylene (total)	U	13	1.0	10	13	4
108-90-7	Chlorobenzene	U	6	1.0	5	6	1
100-41-4	Ethylbenzene	U	6	1.0	5	6	2
100-42-5	Styrene	U	6	1.0	5	6	1
	m+p-Xylenes	U	13	1.0	10	13	3
95-47-6	o-Xylene	U	6	1.0	5	6	1
1330-20-7	Xylenes (total)	U	19	1.0	15	19	4
1868-53-7	Dibromofluoromethane		71%				
17060-07-0	1,2-Dichloroethane-D4		81%				
2037-26-5	Toluene-D8		* 57%				
460-00-4	P-Bromofluorobenzene		* 18%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/12/03
Received Date: 11/13/03
Extraction Date:
Analysis Date: 11/18/03
Report Date: 12/03/2003
Matrix: SOIL
% Solids: 92.6

Lab ID: WT2857-3RA
Client ID: IR1-DSB-05-1103
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5035
Analyst: JLP
Analysis Method: SW846 8260B
Lab Prep Batch: WG4629
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	11	1.0	10	11	3
74-83-9	Bromomethane	U	11	1.0	10	11	2
75-01-4	Vinyl chloride	U	11	1.0	10	11	1
75-00-3	Chloroethane	U	11	1.0	10	11	3
75-09-2	Methylene Chloride	U	5	1.0	5	5	4
67-64-1	Acetone	U	27	1.0	25	27	10
75-15-0	Carbon Disulfide	U	5	1.0	5	5	2
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	2
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	1
156-59-2	cis-1,2-Dichloroethene	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	2
67-66-3	Chloroform	U	5	1.0	5	5	1
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	1
78-93-3	2-Butanone	U	27	1.0	25	27	8
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	2
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	1
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	2
79-01-6	Trichloroethene	U	5	1.0	5	5	2
124-48-1	Dibromochloromethane	U	5	1.0	5	5	2
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	1
71-43-2	Benzene	U	5	1.0	5	5	1
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	2
75-25-2	Bromoform	U	5	1.0	5	5	1
108-10-1	4-methyl-2-pentanone	U	27	1.0	25	27	13
591-78-6	2-Hexanone	U	27	1.0	25	27	9
127-18-4	Tetrachloroethene	U	5	1.0	5	5	2
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	3
108-88-3	Toluene	U	5	1.0	5	5	3
540-59-0	1,2-Dichloroethylene (total)	U	11	1.0	10	11	3
108-90-7	Chlorobenzene	U	5	1.0	5	5	1
100-41-4	Ethylbenzene	U	5	1.0	5	5	1
100-42-5	Styrene	U	5	1.0	5	5	1
	m+p-Xylenes	U	11	1.0	10	11	2
95-47-6	o-Xylene	U	5	1.0	5	5	1.0
1330-20-7	Xylenes (total)	U	16	1.0	15	16	3
1868-53-7	Dibromofluoromethane		91%				
17060-07-0	1,2-Dichloroethane-D4		106%				
2037-26-5	Toluene-D8		90%				
460-00-4	P-Bromofluorobenzene		65%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297-318 NAS KEY WEST
PO No:
Sample Date: 11/12/03
Received Date: 11/13/03
Extraction Date: 11/17/03
Analysis Date: 11/24/03
Report Date: 11/25/2003
Matrix: SOIL
% Solids: 92.4

Lab ID: WT2857-1
Client ID: IR1-CSS-01-1103
SDG: CTO318-2
Extracted by: LS
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG4541
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	360	1.0	330	360	25
111-44-4	Bis(2-Chloroethyl)ether	U	360	1.0	330	360	19
95-57-8	2-Chlorophenol	U	360	1.0	330	360	24
541-73-1	1,3-Dichlorobenzene	U	360	1.0	330	360	13
106-46-7	1,4-Dichlorobenzene	U	360	1.0	330	360	12
95-50-1	1,2-Dichlorobenzene	U	360	1.0	330	360	14
95-48-7	2-Methylphenol	U	360	1.0	330	360	22
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	360	1.0	330	360	18
106-44-5	4-Methylphenol	U	360	1.0	330	360	21
621-64-7	N-Nitroso-di-n-propylamine	U	360	1.0	330	360	16
67-72-1	Hexachloroethane	U	360	1.0	330	360	12
98-95-3	Nitrobenzene	U	360	1.0	330	360	18
78-59-1	Isophorone	U	360	1.0	330	360	10
88-75-5	2-Nitrophenol	U	360	1.0	330	360	29
105-67-9	2,4-Dimethylphenol	U	360	1.0	330	360	43
111-91-1	Bis(2-Chloroethoxy)methane	U	360	1.0	330	360	17
120-83-2	2,4-Dichlorophenol	U	360	1.0	330	360	24
120-82-1	1,2,4-Trichlorobenzene	U	360	1.0	330	360	13
91-20-3	Naphthalene	U	360	1.0	330	360	12
106-47-8	4-Chloroaniline	U	360	1.0	330	360	12
87-68-3	Hexachlorobutadiene	U	360	1.0	330	360	13
59-50-7	4-Chloro-3-Methylphenol	U	360	1.0	330	360	33
91-57-6	2-Methylnaphthalene	U	360	1.0	330	360	15
77-47-4	Hexachlorocyclopentadiene	U	360	1.0	330	360	14
88-06-2	2,4,6-Trichlorophenol	U	360	1.0	330	360	34
95-95-4	2,4,5-Trichlorophenol	U	890	1.0	820	890	31
91-58-7	2-Chloronaphthalene	U	360	1.0	330	360	16
88-74-4	2-Nitroaniline	U	890	1.0	820	890	15
131-11-3	Dimethyl Phthalate	U	360	1.0	330	360	16
208-96-8	Acenaphthylene	U	360	1.0	330	360	13
606-20-2	2,6-Dinitrotoluene	U	360	1.0	330	360	14
99-09-2	3-Nitroaniline	U	890	1.0	820	890	51
83-32-9	Acenaphthene	U	360	1.0	330	360	18
51-28-5	2,4-Dinitrophenol	U	890	1.0	820	890	92
100-02-7	4-Nitrophenol	U	890	1.0	820	890	75
132-64-9	Dibenzofuran	U	360	1.0	330	360	12
121-14-2	2,4-Dinitrotoluene	U	360	1.0	330	360	12
84-66-2	Diethylphthalate	U	360	1.0	330	360	15
7005-72-3	4-Chlorophenyl-phenylether	U	360	1.0	330	360	19
86-73-7	Fluorene	U	360	1.0	330	360	18
100-01-6	4-Nitroaniline	U	890	1.0	820	890	60
534-52-1	4,6-Dinitro-2-Methylphenol	U	890	1.0	820	890	78
86-30-6	N-Nitrosodiphenylamine	U	360	1.0	330	360	33

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297-318 NAS KEY WEST
PO No:
Sample Date: 11/12/03
Received Date: 11/13/03
Extraction Date: 11/17/03
Analysis Date: 11/24/03
Report Date: 11/25/2003
Matrix: SOIL
% Solids: 92.4

Lab ID: WT2857-1
Client ID: IR1-CSS-01-1103
SDG: CTO318-2
Extracted by: LS
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG4541
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	360	1.0	330	360	18
118-74-1	Hexachlorobenzene	U	360	1.0	330	360	22
87-86-5	Pentachlorophenol	U	890	1.0	820	890	68
85-01-8	Phenanthrene	J	46	1.0	330	360	17
120-12-7	Anthracene	U	360	1.0	330	360	16
86-74-8	Carbazole	U	360	1.0	330	360	21
84-74-2	Di-n-butylphthalate	U	360	1.0	330	360	74
206-44-0	Fluoranthene	J	110	1.0	330	360	20
129-00-0	Pyrene	J	100	1.0	330	360	28
85-68-7	Butylbenzylphthalate	U	360	1.0	330	360	24
91-94-1	3,3'-Dichlorobenzidine	U	360	1.0	330	360	69
56-55-3	Benzo(a)anthracene	J	65	1.0	330	360	18
218-01-9	Chrysene	J	87	1.0	330	360	19
117-81-7	bis(2-Ethylhexyl)phthalate	JB	32	1.0	330	360	28
117-84-0	Di-n-octylphthalate	U	360	1.0	330	360	18
205-99-2	Benzo(b)fluoranthene	J	110	1.0	330	360	13
207-08-9	Benzo(k)fluoranthene	J	58	1.0	330	360	23
50-32-8	Benzo(a)pyrene	J	75	1.0	330	360	18
193-39-5	Indeno(1,2,3-cd)pyrene	J	61	1.0	330	360	21
53-70-3	Dibenzo(a,h)anthracene	U	360	1.0	330	360	23
191-24-2	Benzo(g,h,i)perylene	J	55	1.0	330	360	24
367-12-4	2-Fluorophenol		75%				
13127-88-3	Phenol-D6		72%				
4165-60-0	Nitrobenzene-D5		69%				
321-60-8	2-Fluorobiphenyl		80%				
118-79-6	2,4,6-Tribromophenol		82%				
1718-51-0	Terphenyl-D14		105%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297-318 NAS KEY WEST
PO No:
Sample Date: 11/12/03
Received Date: 11/13/03
Extraction Date: 11/17/03
Analysis Date: 11/24/03
Report Date: 11/25/2003
Matrix: SOIL
% Solids: 90.0

Lab ID: WT2857-2
Client ID: IR1-CSS-02-1103
SDG: CTO318-2
Extracted by: LS
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG4541
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	370	1.0	330	370	26
111-44-4	Bis(2-Chloroethyl)ether	U	370	1.0	330	370	20
95-57-8	2-Chlorophenol	U	370	1.0	330	370	24
541-73-1	1,3-Dichlorobenzene	U	370	1.0	330	370	13
106-46-7	1,4-Dichlorobenzene	U	370	1.0	330	370	13
95-50-1	1,2-Dichlorobenzene	U	370	1.0	330	370	14
95-48-7	2-Methylphenol	U	370	1.0	330	370	23
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	370	1.0	330	370	18
106-44-5	4-Methylphenol	U	370	1.0	330	370	21
621-64-7	N-Nitroso-di-n-propylamine	U	370	1.0	330	370	16
67-72-1	Hexachloroethane	U	370	1.0	330	370	12
98-95-3	Nitrobenzene	U	370	1.0	330	370	18
78-59-1	Isophorone	U	370	1.0	330	370	10
88-75-5	2-Nitrophenol	U	370	1.0	330	370	30
105-67-9	2,4-Dimethylphenol	U	370	1.0	330	370	44
111-91-1	Bis(2-Chloroethoxy)methane	U	370	1.0	330	370	17
120-83-2	2,4-Dichlorophenol	U	370	1.0	330	370	24
120-82-1	1,2,4-Trichlorobenzene	U	370	1.0	330	370	13
91-20-3	Naphthalene	U	370	1.0	330	370	12
106-47-8	4-Chloroaniline	U	370	1.0	330	370	12
87-68-3	Hexachlorobutadiene	U	370	1.0	330	370	13
59-50-7	4-Chloro-3-Methylphenol	U	370	1.0	330	370	34
91-57-6	2-Methylnaphthalene	U	370	1.0	330	370	15
77-47-4	Hexachlorocyclopentadiene	U	370	1.0	330	370	14
88-06-2	2,4,6-Trichlorophenol	U	370	1.0	330	370	34
95-95-4	2,4,5-Trichlorophenol	U	910	1.0	820	910	32
91-58-7	2-Chloronaphthalene	U	370	1.0	330	370	16
88-74-4	2-Nitroaniline	U	910	1.0	820	910	15
131-11-3	Dimethyl Phthalate	U	370	1.0	330	370	17
208-96-8	Acenaphthylene	U	370	1.0	330	370	13
606-20-2	2,6-Dinitrotoluene	U	370	1.0	330	370	15
99-09-2	3-Nitroaniline	U	910	1.0	820	910	52
83-32-9	Acenaphthene	U	370	1.0	330	370	18
51-28-5	2,4-Dinitrophenol	U	910	1.0	820	910	94
100-02-7	4-Nitrophenol	U	910	1.0	820	910	77
132-64-9	Dibenzofuran	U	370	1.0	330	370	13
121-14-2	2,4-Dinitrotoluene	U	370	1.0	330	370	12
84-66-2	Diethylphthalate	U	370	1.0	330	370	15
7005-72-3	4-Chlorophenyl-phenylether	U	370	1.0	330	370	19
86-73-7	Fluorene	U	370	1.0	330	370	18
100-01-6	4-Nitroaniline	U	910	1.0	820	910	62
534-52-1	4,6-Dinitro-2-Methylphenol	U	910	1.0	820	910	80
86-30-6	N-Nitrosodiphenylamine	U	370	1.0	330	370	34

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297-318 NAS KEY WEST
PO No:
Sample Date: 11/12/03
Received Date: 11/13/03
Extraction Date: 11/17/03
Analysis Date: 11/24/03
Report Date: 11/25/2003
Matrix: SOIL
% Solids: 90.0

Lab ID: WT2857-2
Client ID: IR1-CSS-02-1103
SDG: CTO318-2
Extracted by: LS
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG4541
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	370	1.0	330	370	18
118-74-1	Hexachlorobenzene	U	370	1.0	330	370	23
87-86-5	Pentachlorophenol	U	910	1.0	820	910	70
85-01-8	Phenanthrene	J	160	1.0	330	370	18
120-12-7	Anthracene	J	34	1.0	330	370	16
86-74-8	Carbazole	J	25	1.0	330	370	22
84-74-2	Di-n-butylphthalate	U	370	1.0	330	370	76
206-44-0	Fluoranthene	J	290	1.0	330	370	20
129-00-0	Pyrene	J	270	1.0	330	370	28
85-68-7	Butylbenzylphthalate		6000	1.0	330	370	25
91-94-1	3,3'-Dichlorobenzidine	U	370	1.0	330	370	71
56-55-3	Benzo(a)anthracene	J	170	1.0	330	370	18
218-01-9	Chrysene	J	200	1.0	330	370	20
117-81-7	bis(2-Ethylhexyl)phthalate	B	910	1.0	330	370	29
117-84-0	Di-n-octylphthalate	U	370	1.0	330	370	18
205-99-2	Benzo(b)fluoranthene	J	280	1.0	330	370	14
207-08-9	Benzo(k)fluoranthene	J	140	1.0	330	370	24
50-32-8	Benzo(a)pyrene	J	180	1.0	330	370	19
193-39-5	Indeno(1,2,3-cd)pyrene	J	160	1.0	330	370	22
53-70-3	Dibenzo(a,h)anthracene	J	38	1.0	330	370	24
191-24-2	Benzo(g,h,i)perylene	J	160	1.0	330	370	25
367-12-4	2-Fluorophenol		75%				
13127-88-3	Phenol-D6		76%				
4165-60-0	Nitrobenzene-D5		72%				
321-60-8	2-Fluorobiphenyl		87%				
118-79-6	2,4,6-Tribromophenol		90%				
1718-51-0	Terphenyl-D14		111%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297-318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date: 11/17/03
Analysis Date: 11/21/03
Report Date: 11/25/2003
Matrix: SOIL
% Solids: 88.6

Lab ID: WT2880-1
Client ID: G01-SB-01-1103L
SDG: CTO318-2
Extracted by: LS
Extraction Method: SW846 3540
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG4589
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	370	1.0	330	370	12
91-57-6	2-Methylnaphthalene	U	370	1.0	330	370	15
90-12-0	1-Methylnaphthalene	U	370	1.0	330	370	15
208-96-8	Acenaphthylene	U	370	1.0	330	370	14
83-32-9	Acenaphthene	U	370	1.0	330	370	19
86-73-7	Fluorene	U	370	1.0	330	370	19
85-01-8	Phenanthrene	U	370	1.0	330	370	18
120-12-7	Anthracene	U	370	1.0	330	370	16
206-44-0	Fluoranthene	U	370	1.0	330	370	20
129-00-0	Pyrene	U	370	1.0	330	370	29
56-55-3	Benzo(a)anthracene	U	370	1.0	330	370	19
218-01-9	Chrysene	U	370	1.0	330	370	20
205-99-2	Benzo(b)fluoranthene	U	370	1.0	330	370	14
207-08-9	Benzo(k)fluoranthene	U	370	1.0	330	370	24
50-32-8	Benzo(a)pyrene	U	370	1.0	330	370	19
193-39-5	Indeno(1,2,3-cd)pyrene	U	370	1.0	330	370	22
53-70-3	Dibenzo(a,h)anthracene	U	370	1.0	330	370	24
191-24-2	Benzo(g,h,i)perylene	U	370	1.0	330	370	25
4165-60-0	Nitrobenzene-D5		77%				
321-60-8	2-Fluorobiphenyl		94%				
1718-51-0	Terphenyl-D14		*120%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297-318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date: 11/17/03
Analysis Date: 11/21/03
Report Date: 11/25/2003
Matrix: SOIL
% Solids: 86.4

Lab ID: WT2880-2
Client ID: G01-SB-05-1103M
SDG: CTO318-2
Extracted by: LS
Extraction Method: SW846 3540
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG4589
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	380	1.0	330	380	13
91-57-6	2-Methylnaphthalene	U	380	1.0	330	380	16
90-12-0	1-Methylnaphthalene	U	380	1.0	330	380	16
208-96-8	Acenaphthylene	U	380	1.0	330	380	14
83-32-9	Acenaphthene	U	380	1.0	330	380	19
86-73-7	Fluorene	U	380	1.0	330	380	19
85-01-8	Phenanthrene	U	380	1.0	330	380	18
120-12-7	Anthracene	U	380	1.0	330	380	17
206-44-0	Fluoranthene	U	380	1.0	330	380	21
129-00-0	Pyrene	U	380	1.0	330	380	30
56-55-3	Benzo(a)anthracene	U	380	1.0	330	380	19
218-01-9	Chrysene	U	380	1.0	330	380	21
205-99-2	Benzo(b)fluoranthene	U	380	1.0	330	380	14
207-08-9	Benzo(k)fluoranthene	U	380	1.0	330	380	24
50-32-8	Benzo(a)pyrene	U	380	1.0	330	380	19
193-39-5	Indeno(1,2,3-cd)pyrene	U	380	1.0	330	380	23
53-70-3	Dibenzo(a,h)anthracene	U	380	1.0	330	380	25
191-24-2	Benzo(g,h,i)perylene	U	380	1.0	330	380	26
4165-60-0	Nitrobenzene-D5		86%				
321-60-8	2-Fluorobiphenyl		94%				
1718-51-0	Terphenyl-D14		112%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297-318 NAS KEY WEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date: 11/20/03
Analysis Date: 11/25/03
Report Date: 11/25/2003
Matrix: SOIL
% Solids: 87.6

Lab ID: WT2913-1
Client ID: G01-SB-19-1103H
SDG: CTO318-2
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG4689
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	380	1.0	330	380	13
91-57-6	2-Methylnaphthalene	U	380	1.0	330	380	15
90-12-0	1-Methylnaphthalene	U	380	1.0	330	380	15
208-96-8	Acenaphthylene	U	380	1.0	330	380	14
83-32-9	Acenaphthene	U	380	1.0	330	380	19
86-73-7	Fluorene	U	380	1.0	330	380	19
85-01-8	Phenanthrene	U	380	1.0	330	380	18
120-12-7	Anthracene	U	380	1.0	330	380	16
206-44-0	Fluoranthene	U	380	1.0	330	380	21
129-00-0	Pyrene	U	380	1.0	330	380	29
56-55-3	Benzo(a)anthracene	U	380	1.0	330	380	19
218-01-9	Chrysene	U	380	1.0	330	380	20
205-99-2	Benzo(b)fluoranthene	U	380	1.0	330	380	14
207-08-9	Benzo(k)fluoranthene	U	380	1.0	330	380	24
50-32-8	Benzo(a)pyrene	U	380	1.0	330	380	19
193-39-5	Indeno(1,2,3-cd)pyrene	U	380	1.0	330	380	22
53-70-3	Dibenzo(a,h)anthracene	U	380	1.0	330	380	24
191-24-2	Benzo(g,h,i)perylene	U	380	1.0	330	380	25
4165-60-0	Nitrobenzene-D5		58%				
321-60-8	2-Fluorobiphenyl		69%				
1718-51-0	Terphenyl-D14		77%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297-318 NAS KEY WEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date: 11/20/03
Analysis Date: 11/25/03
Report Date: 11/25/2003
Matrix: SOIL
% Solids: 89.4

Lab ID: WT2913-2
Client ID: KW-DUP-05-1103
SDG: CTO318-2
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG4689
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj MDL
91-20-3	Naphthalene	U	370	1.0	330	370	12
91-57-6	2-Methylnaphthalene	U	370	1.0	330	370	15
90-12-0	1-Methylnaphthalene	U	370	1.0	330	370	15
208-96-8	Acenaphthylene	U	370	1.0	330	370	14
83-32-9	Acenaphthene	U	370	1.0	330	370	18
86-73-7	Fluorene	U	370	1.0	330	370	18
85-01-8	Phenanthrene	U	370	1.0	330	370	18
120-12-7	Anthracene	U	370	1.0	330	370	16
206-44-0	Fluoranthene	U	370	1.0	330	370	20
129-00-0	Pyrene	U	370	1.0	330	370	29
56-55-3	Benzo(a)anthracene	U	370	1.0	330	370	18
218-01-9	Chrysene	U	370	1.0	330	370	20
205-99-2	Benzo(b)fluoranthene	U	370	1.0	330	370	14
207-08-9	Benzo(k)fluoranthene	U	370	1.0	330	370	24
50-32-8	Benzo(a)pyrene	U	370	1.0	330	370	19
193-39-5	Indeno(1,2,3-cd)pyrene	U	370	1.0	330	370	22
53-70-3	Dibenzo(a,h)anthracene	U	370	1.0	330	370	24
191-24-2	Benzo(g,h,i)perylene	U	370	1.0	330	370	25
4165-60-0	Nitrobenzene-D5		60%				
321-60-8	2-Fluorobiphenyl		75%				
1718-51-0	Terphenyl-D14		88%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/12/03
Received Date: 11/13/03
Extraction Date: 11/17/03
Analysis Date: 12/03/03
Report Date: 12/04/2003
Matrix: SOIL
% Solids: 92.4

Lab ID: WT2857-1
Client ID: IR1-CSS-01-1103
SDG: CTO318-2
Extracted by: AZ
Extraction Method: SW846 3550
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG4605
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	1.8	1.0	1.7	1.8	0.74
58-89-9	gamma BHC	U	1.8	1.0	1.7	1.8	0.64
76-44-8	Heptachlor	U	1.8	1.0	1.7	1.8	0.60
319-85-7	beta-BHC	U	1.8	1.0	1.7	1.8	1.1
309-00-2	Aldrin	U	1.8	1.0	1.7	1.8	0.61
319-86-8	delta-BHC	U	1.8	1.0	1.7	1.8	0.63
1024-57-3	Heptachlor Epoxide	U	1.8	1.0	1.7	1.8	0.70
959-98-8	Endosulfan I	U	1.8	1.0	1.7	1.8	0.66
72-55-9	4,4'-DDE		8.2	1.0	3.3	3.6	0.67
60-57-1	Dieldrin	U	3.6	1.0	3.3	3.6	0.65
72-20-8	Endrin	U	3.6	1.0	3.3	3.6	0.62
72-54-8	4,4'-DDD	U	3.6	1.0	3.3	3.6	0.67
33213-65-9	Endosulfan II	U	3.6	1.0	3.3	3.6	0.62
50-29-3	4,4'-DDT		8.9	1.0	3.3	3.6	0.60
7421-36-3	Endrin Aldehyde	U	3.6	1.0	3.3	3.6	0.72
1031-07-8	Endosulfan sulfate	U	3.6	1.0	3.3	3.6	0.75
72-43-5	Methoxychlor	U	18	1.0	17	18	1.1
8001-35-2	Toxaphene	U	36	1.0	33	36	12
5103-71-9	alpha-Chlordane	U	1.8	1.0	1.7	1.8	0.75
5103-74-2	gamma-Chlordane	U	1.8	1.0	1.7	1.8	0.68
53494-70-5	Endrin Ketone	U	3.6	1.0	3.3	3.6	0.79
877-09-8	Tetrachloro-m-Xylene		88%				
2051-24-3	Decachlorobiphenyl		79%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/12/03
Received Date: 11/13/03
Extraction Date: 11/17/03
Analysis Date: 12/03/03
Report Date: 12/04/2003
Matrix: SOIL
% Solids: 90.0

Lab ID: WT2857-2
Client ID: IR1-CSS-02-1103
SDG: CTO318-2
Extracted by: AZ
Extraction Method: SW846 3550
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG4605
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	1.9	1.0	1.7	1.9	0.76
58-89-9	gamma BHC	U	1.9	1.0	1.7	1.9	0.66
76-44-8	Heptachlor	U	1.9	1.0	1.7	1.9	0.61
319-85-7	beta-BHC	U	1.9	1.0	1.7	1.9	1.1
309-00-2	Aldrin	U	1.9	1.0	1.7	1.9	0.62
319-86-8	delta-BHC	U	1.9	1.0	1.7	1.9	0.64
1024-57-3	Heptachlor Epoxide	U	1.9	1.0	1.7	1.9	0.72
959-98-8	Endosulfan I	U	1.9	1.0	1.7	1.9	0.68
72-55-9	4,4'-DDE		57	1.0	3.3	3.7	0.69
60-57-1	Dieldrin		9.5	1.0	3.3	3.7	0.67
72-20-8	Endrin	U	3.7	1.0	3.3	3.7	0.63
72-54-8	4,4'-DDD	U	3.7	1.0	3.3	3.7	0.69
33213-65-9	Endosulfan II	U	3.7	1.0	3.3	3.7	0.63
50-29-3	4,4'-DDT		35	1.0	3.3	3.7	0.61
7421-36-3	Endrin Aldehyde	U	3.7	1.0	3.3	3.7	0.74
1031-07-8	Endosulfan sulfate	U	3.7	1.0	3.3	3.7	0.77
72-43-5	Methoxychlor	U	19	1.0	17	19	1.1
8001-35-2	Toxaphene	U	37	1.0	33	37	13
5103-71-9	alpha-Chlordane	U	1.9	1.0	1.7	1.9	0.77
5103-74-2	gamma-Chlordane	U	1.9	1.0	1.7	1.9	0.70
53494-70-5	Endrin Ketone	U	3.7	1.0	3.3	3.7	0.81
877-09-8	Tetrachloro-m-Xylene		62%				
2051-24-3	Decachlorobiphenyl		61%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/12/03
Received Date: 11/13/03
Extraction Date: 11/17/03
Analysis Date: 11/21/03
Report Date: 11/26/2003
Matrix: SOIL
% Solids: 92.4

Lab ID: WT2857-1
Client ID: IR1-CSS-01-1103
SDG: CTO318-2
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG4606
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	18	1.0	17	18	6.8
11104-28-2	Aroclor-1221	U	18	1.0	17	18	16
11141-16-5	Aroclor-1232	U	18	1.0	17	18	9.9
53469-21-9	Aroclor-1242	U	18	1.0	17	18	6.6
12672-29-6	Aroclor-1248	U	18	1.0	17	18	2.4
11097-69-1	Aroclor-1254	U	18	1.0	17	18	7.8
11096-82-5	Aroclor-1260		26	1.0	17	18	4.0
877-09-8	Tetrachloro-m-xylene		73%				
2051-24-3	Decachlorobiphenyl		64%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/12/03
Received Date: 11/13/03
Extraction Date: 11/17/03
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: SOIL
% Solids: 90.0

Lab ID: WT2857-2
Client ID: IR1-CSS-02-1103
SDG: CTO318-2
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG4606
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	19	1.0	17	19	6.9
11104-28-2	Aroclor-1221	U	19	1.0	17	19	16
11141-16-5	Aroclor-1232	U	19	1.0	17	19	10
53469-21-9	Aroclor-1242	U	19	1.0	17	19	6.8
12672-29-6	Aroclor-1248	U	19	1.0	17	19	2.5
11097-69-1	Aroclor-1254		38	1.0	17	19	8.0
11096-82-5	Aroclor-1260		170	1.0	17	19	4.2
877-09-8	Tetrachloro-m-xylene		55%				
2051-24-3	Decachlorobiphenyl		* 53%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date: 11/18/03
Analysis Date: 12/02/03
Report Date: 12/05/2003
Matrix: SOIL
% Solids: 88.6

Lab ID: WT2880-1
Client ID: G01-SB-01-1103L
SDG: CTO318-2
Extracted by: LS
Extraction Method: SW846 3540
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4643
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	83	1.0	20	22	1.6
	n-Triacontane-D62		101%				
	O-Terphenyl		82%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/13/03
Received Date: 11/14/03
Extraction Date: 11/18/03
Analysis Date: 12/02/03
Report Date: 12/05/2003
Matrix: SOIL
% Solids: 86.4

Lab ID: WT2880-2
Client ID: G01-SB-05-1103M
SDG: CTO318-2
Extracted by: LS
Extraction Method: SW846 3540
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4643
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	JB	4.2	1.0	20	23	1.6
	n-Triacontane-D62		92%				
	O-Terphenyl		74%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date: 12/04/03
Analysis Date: 12/04/03
Report Date: 12/05/2003
Matrix: SOIL
% Solids: 87.6

Lab ID: WT2913-1RE
Client ID: G01-SB-19-1103H
SDG: CTO318-2
Extracted by: NB
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4950
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	93	1.0	20	23	1.6
	n-Triacontane-D62		93%				
	O-Terphenyl		79%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date: 12/04/03
Analysis Date: 12/04/03
Report Date: 12/05/2003
Matrix: SOIL
% Solids: 89.4

Lab ID: WT2913-2RE
Client ID: KW-DUP-05-1103
SDG: CTO318-2
Extracted by: NB
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4950
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	71	1.0	20	22	1.6
	n-Triacontane-D62		98%				
	O-Terphenyl		81%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date: 11/20/03
Analysis Date: 12/02/03
Report Date: 12/05/2003
Matrix: SOIL
% Solids: 87.6

Lab ID: WT2913-1
Client ID: G01-SB-19-1103H
SDG: CTO318-2
Extracted by: NB
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4690
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	160	1.0	20	23	1.6
	n-Triacontane-D62		71%				
	O-Terphenyl		* 58%				

DO NOT USE

JAD 12-15-03

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date: 11/20/03
Analysis Date: 12/02/03
Report Date: 12/05/2003
Matrix: SOIL
% Solids: 89.4

Lab ID: WT2913-2
Client ID: KW-DUP-05-1103
SDG: CTO318-2
Extracted by: NB
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4690
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	200	1.0	20	22	1.6
	n-Triacontane-D62		76%				
	O-Terphenyl		66%				

DO NOT USE
12-15-03

APPENDIX C

SUPPORT DOCUMENTATION

W128IT + WT288U

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 3876 | PAGE 1 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 318	NAS Key West	Chuck Bryan	803-649-7963x344	Andrea Catley - Katahdin Analytical
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS**
Emily McKee, Chuck Bryan		Emily McKee	305-219-1662	340 County Rd. No.5
		CARRIER/WAYBILL NUMBER		**CITY, STATE**
		8425 8908 7899		Westbrook, ME 04092

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☒ 14 day

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: PPL VOHs + BTEX, MTBE	PAHs	BTEX, MTBE	TPH	COMMENTS
									G G G G	/ / 3 DI / MeOH /					
11/13	0850	G01-GS-01-1103	SB-1	—		GW	G	3	3		X				
11/13	0920	G01-GS-02-1103	SB-2	—		GW	G	3	3						
11/13	1000	G01-GS-03-1103	SB-3	—		GW	G	3	3						
11/13	1035	G01-GS-04-1103	SB-4	—		GW	G	3	3						
11/13	1100	G01-GS-05-1103	SB-5	—		GW	G	3	3						
11/13	1135	G01-GS-06-1103	SB-6	—		GW	G	3	3						
11/13	1205	G01-GS-07-1103	SB-7	—		GW	G	3	3						
11/13	1410	G01-GS-08-1103	SB-8	—		GW	G	3	3						
11/13	1435	G01-GS-09-1103	SB-9	—		GW	G	3	3						
11/13	1530	G01-GS-10-1103	SB-10	—		GW	G	3	3						Preservative rinsed from all VOC groundwater samples
~~11/13~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~												
11/13	0950	G01-SB-01-1103L	SB-1	0	2	SO	G	6		1	4	1			
11/13	1150	G01-SB-05-1103M	SB-5	0	2	SO	G	6		1	4	1			

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Emily McKee	11/13/03	1730	1. RECEIVED BY: Guy Russell	11-14-03	0930
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

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FORM NO. TtNUS-001

00003013

WT2857

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 3829 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 300	NAS Key West	Chuck Bryan	803-649-7963x345	Katahdin Analytical - Andrea Colby
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
Emily McRee		Emily McRee	305-219-1662	340 County Rd. No. 5
		CARRIER/WAYBILL NUMBER		CITY, STATE
		8425 8908 7903		Westbrook, ME

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☒ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): 6 6 6 6

PRESERVATIVE USED: 1 meth 3 DI / / /

TYPE OF ANALYSIS

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TCL VOCs	TCL SVOCs	TCL Pest/PCBs	TALmetals + Tin				COMMENTS
11/12	1130	IR1-CSS-01-1103	IR1	—	—	SO	C	3		1	1	1				
11/12	1130	IR1-CSS-02-1103	IR1	—	—	SO	C	3		1	1	1				
11/12	1140	IR1-DSB-05-1103	IR1	1	2	SO	G	4	4							
11/12	1140	IR1-DSB-01-1103	IR1	1	1.5	SO	G	4	4							
11/6	1550	KWTB-111203	—	—	—	QC	G	2	2							

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Emily McRee	11/12/03	1700	1. RECEIVED BY: [signature]	11-13-03	0830
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

0000012

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 3880 | PAGE 3 OF 3

PROJECT NO: CTO 318	FACILITY: NAS KW	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
SAMPLERS (SIGNATURE) Emily McKee		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		CARRIER/WAYBILL NUMBER 842589085800		CITY, STATE

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☒ 14 day

DATE / YEAR	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)								COMMENTS
									G	G	G	G					
									PRESERVATIVE USED			3 DI HCl					
									TYPE OF ANALYSIS	PAH	PCB's MTBE	PCB's MTBE TCL VOA's + BTEX, MTBE					
11/17	0000	KW-DUP-04-1103				GW	G	3	3								
11/17	1120	G01-GS-48-1103	SB-48			GW	G	5	3	2							
11/17	1200	G01-GS-49-1103	SB-49			GW	G	3	3								
11/17	1215	G01-GS-50-1103	SB-50			GW	G	3	3								
11/17	1250	G01-GS-51-1103	SB-51			GW	G	6	6								MS/MSD
11/17	1340	G01-GS-52-1103	SB-52			GW	G	3	3								
11/17	1345	G01-SB-19-1103H	SB-19	0	2	SO	G	6		1	4	1					
11/17	0000	KW-DUP-05-1103				SO	G	6		1	4	1					
11/6	1550	KW-TB-111703				QC	G	2	2								

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE 11-16-03	TIME 0805
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

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FORM NO. TINUS-001

00000016

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 3867 | PAGE 2 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:

SAMPLERS (SIGNATURE)	FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
Emily McKee Gary Bragga			

CARRIER/WAYBILL NUMBER: 8425 8902 7899

CITY, STATE:

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☒ 14 day

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: PPL VOCs + BTEX, MTBE	HCl	6							COMMENTS
11/13	1550	KWTB-111303	—			QC	G	2	P		2									

1. RELINQUISHED BY: Emily McKee	DATE: 11/13/03	TIME: 1730	1. RECEIVED BY: Amy Driscoll	DATE: 11-14-03	TIME: 0830
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

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FORM NO. TtNUS-001

000013

FIELD DUPLICATE PRECISION

ANALYTE	G01-SB-19-1103H	QUAL	KW-DUP-05-1103	QUAL	RPD	DIFFERENCE
TPH	92		71		25.77	21

HOLDTIME

SDG 3182

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	KWTB-111203	WT2857-5	NM	11/6/2003	11/18/2003	11/18/2003	12	0	12
OV	%	G01-SB-05-1103M	WT2880-2	NM	11/13/2003	11/18/2003	11/18/2003	5	0	5
OV	%	G01-SB-19-1103H	WT2913-1	NM	11/17/2003	11/18/2003	11/18/2003	1	0	1
OV	%	IR1-DSB-01-1103	WT2857-4	NM	11/12/2003	11/14/2003	11/14/2003	2	0	2
OV	%	IR1-DSB-01-1103RA	WT2857-4RA	NM	11/12/2003	11/18/2003	11/18/2003	6	0	6
OV	%	IR1-DSB-05-1103RA	WT2857-3RA	NM	11/12/2003	11/18/2003	11/18/2003	6	0	6
OV	%	G01-SB-01-1103L	WT2880-1	NM	11/13/2003	11/18/2003	11/18/2003	5	0	5
OV	%	KW-DUP-05-1103RA	WT2913-2RA	NM	11/17/2003	11/18/2003	11/18/2003	1	0	1
OV	UG/KG	G01-SB-05-1103M	WT2880-2	NM	11/13/2003	11/18/2003	11/18/2003	5	0	5
OV	UG/KG	G01-SB-19-1103H	WT2913-1	NM	11/17/2003	11/18/2003	11/18/2003	1	0	1
OV	UG/KG	IR1-DSB-01-1103	WT2857-4	NM	11/12/2003	11/14/2003	11/14/2003	2	0	2
OV	UG/KG	IR1-DSB-01-1103RA	WT2857-4RA	NM	11/12/2003	11/18/2003	11/18/2003	6	0	6
OV	UG/KG	IR1-DSB-05-1103RA	WT2857-3RA	NM	11/12/2003	11/18/2003	11/18/2003	6	0	6
OV	UG/KG	KW-DUP-05-1103RA	WT2913-2RA	NM	11/17/2003	11/18/2003	11/18/2003	1	0	1
OV	UG/KG	G01-SB-01-1103L	WT2880-1	NM	11/13/2003	11/18/2003	11/18/2003	5	0	5

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	UG/L	KWTB-111203	WT2857-5	NM	11/6/2003	11/18/2003	11/18/2003	12	0	12

HOLDTIME

SDG CTO318-2

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	%	KW-DUP-05-1103	WT2913-2	NM	11/17/2003	11/20/2003	11/25/2003	3	5	8
OS	%	IR1-CSS-02-1103	WT2857-2	NM	11/12/2003	11/17/2003	11/24/2003	5	7	12
OS	%	IR1-CSS-01-1103	WT2857-1	NM	11/12/2003	11/17/2003	11/24/2003	5	7	12
OS	%	G01-SB-19-1103H	WT2913-1	NM	11/17/2003	11/20/2003	11/25/2003	3	5	8
OS	%	G01-SB-05-1103M	WT2880-2	NM	11/13/2003	11/17/2003	11/21/2003	4	4	8
OS	%	G01-SB-01-1103L	WT2880-1	NM	11/13/2003	11/17/2003	11/21/2003	4	4	8
OS	UG/KG	KW-DUP-05-1103	WT2913-2	NM	11/17/2003	11/20/2003	11/25/2003	3	5	8
OS	UG/KG	IR1-CSS-02-1103	WT2857-2	NM	11/12/2003	11/17/2003	11/24/2003	5	7	12
OS	UG/KG	IR1-CSS-01-1103	WT2857-1	NM	11/12/2003	11/17/2003	11/24/2003	5	7	12
OS	UG/KG	G01-SB-19-1103H	WT2913-1	NM	11/17/2003	11/20/2003	11/25/2003	3	5	8
OS	UG/KG	G01-SB-05-1103M	WT2880-2	NM	11/13/2003	11/17/2003	11/21/2003	4	4	8
OS	UG/KG	G01-SB-01-1103L	WT2880-1	NM	11/13/2003	11/17/2003	11/21/2003	4	4	8

HOLDTIME

SDG CTO318-2

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
BEST	%	IR1-CSS-02-1103	WT2857-2	NM	11/12/2003	11/17/2003	12/3/2003	5	16	21
	%	IR1-CSS-01-1103	WT2857-1	NM	11/12/2003	11/17/2003	12/3/2003	5	16	21
	UG/KG	IR1-CSS-02-1103	WT2857-2	NM	11/12/2003	11/17/2003	12/3/2003	5	16	21
	UG/KG	IR1-CSS-01-1103	WT2857-1	NM	11/12/2003	11/17/2003	12/3/2003	5	16	21

HOLDTIME

SDG 3182

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PCB	%	IR1-CSS-02-1103	WT2857-2	NM	11/12/2003	11/17/2003	11/21/2003	5	4	9
PCB	%	IR1-CSS-01-1103	WT2857-1	NM	11/12/2003	11/17/2003	11/21/2003	5	4	9
PCB	UG/KG	IR1-CSS-02-1103	WT2857-2	NM	11/12/2003	11/17/2003	11/21/2003	5	4	9
PCB	UG/KG	IR1-CSS-01-1103	WT2857-1	NM	11/12/2003	11/17/2003	11/21/2003	5	4	9

HOLDTIME

SDG 3182

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TPH	%	KW-DUP-05-1103	WT2913-2RE	NM	11/17/2003	12/4/2003	12/4/2003	17	0	17
	%	KW-DUP-05-1103	WT2913-2	NM	11/17/2003	11/20/2003	12/2/2003	3	12	15
	%	G01-SB-19-1103H	WT2913-1RE	NM	11/17/2003	12/4/2003	12/4/2003	17	0	17
	%	G01-SB-19-1103H	WT2913-1	NM	11/17/2003	11/20/2003	12/2/2003	3	12	15
	%	G01-SB-05-1103M	WT2880-2	NM	11/13/2003	11/18/2003	12/2/2003	5	14	19
	%	G01-SB-01-1103L	WT2880-1	NM	11/13/2003	11/18/2003	12/2/2003	5	14	19
	MG/KG	KW-DUP-05-1103	WT2913-2RE	NM	11/17/2003	12/4/2003	12/4/2003	17	0	17
	MG/KG	KW-DUP-05-1103	WT2913-2	NM	11/17/2003	11/20/2003	12/2/2003	3	12	15
	MG/KG	G01-SB-19-1103H	WT2913-1RE	NM	11/17/2003	12/4/2003	12/4/2003	17	0	17
	MG/KG	G01-SB-19-1103H	WT2913-1	NM	11/17/2003	11/20/2003	12/2/2003	3	12	15
	MG/KG	G01-SB-05-1103M	WT2880-2	NM	11/13/2003	11/18/2003	12/2/2003	5	14	19
	MG/KG	G01-SB-01-1103L	WT2880-1	NM	11/13/2003	11/18/2003	12/2/2003	5	14	19

Katahdin
ANALYTICAL SERVICES

Cert. No. E87604

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NAS KEY WEST; SDG: CTO318-2
WT2857, WT2880, WT2913
TASK ORDER MANAGER: CHARLES BRYAN

Sample Receipt

The following samples were received on November 13, 14, and 18, 2003 and were logged in under Katahdin Analytical Services work order number WT2857, WT2880, and WT2913 for a hardcopy due date of November 26, 2003.

KATAHDIN	TTNUS
Sample No.	Sample Identification
WT2857-1	IR1-CSS-01-1103
WT2857-2	IR1-CSS-02-1103
WT2857-3	IR1-DSB-05-1103
WT2857-4	IR1-DSB-01-1103
WT2857-5	KWTB-111203
WT2880-1	G01-SB-01-1103L
WT2880-2	G01-SB-05-1103M
WT2913-1	G01-SB-19-1103H
WT2913-2	KW-DUP-05-1103

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Organics Laboratory

The samples of SDG CTO318-2 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, Office of Solid Waste and Emergency Response, U.S. EPA and Method for Determination of Petroleum Range Organics (Method #FL-PRO), Florida Department of Environmental Protection, November 1, 1995, U.S. EPA for the specific method listed below or on the Report of Analysis. Some manual integrations may have been performed due to split peaks and/or corrected baselines. All have been flagged with a "M" (software-generated) on the pertinent quantitation reports.

8270C-PAH Analysis

Sample WT2880-1 had a high recovery for the surrogate terphenyl-D14, which was outside of the laboratory established acceptance limits. Since the recoveries for the other surrogates were within the acceptance limits and the sample did not detect any target analytes above the MDL, the sample was not reanalyzed.

8270C Analysis

The method blank WG4541-1 had a high recovery for the surrogate terphenyl-D14, which was outside of the laboratory established acceptance limits. Since the recoveries for the other surrogates were within the acceptance limits and the sample did not detect target analytes above the MDL, the method blank was not reanalyzed.

The calibration verification standard (file U5414) had a high response for the calibration check compound (CCC) di-n-octylphthalate, which resulted in a %D that was outside of the method acceptance limit of 20%. Since the associated samples did not detect di-n-octylphthalate above the MDL, the samples were not reanalyzed.

There was one initial calibration performed for this SDG which was analyzed on the U instrument on 11/12/03. This calibration had %RSD values for several analytes that exceeded the method acceptance limit of 15%. For these analytes, either a linear or quadratic model was used for quantitation instead of an average response factor. The analytes 2,4-dinitrophenol and diethylphthalate failed for both the linear and quadratic models in the initial calibration curve due to the correlation coefficient being less than the method acceptance criteria of 0.990. These compounds were calibrated using the average model. Since the associated samples did not detect these analytes above the MDL, the samples were not reanalyzed.

Some method blanks may have detected one or more target analytes above the MDL. Any of these analytes that were also detected in any of the associated samples were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

FL-PRO Analysis

The laboratory control samples, WG4690-2 and 3 and WG4643-2 had recoveries for the surrogate, n-triacontane-d_{62} that were low and outside of the method acceptance limits. Since the recoveries for the second surrogate were acceptable, the associated samples were not reextracted.

The sample WT2913-1 had a recovery for the surrogate, o-terphenyl that was low and outside of the method acceptance limits. Since the recovery for the second surrogate was acceptable, the sample was not reextracted.

The method blank, WG4643-1 had recoveries for the surrogates, o-terphenyl and n-triacontane-d_{62} that were high and outside of the method acceptance limits. Since this would indicate a high bias and the method blank did not detect any PRO above the PQL, the associated samples were not reextracted.

Some method blanks may have detected one or more target analytes above the MDL. Any of these analytes that were also detected in any of the associated samples were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

Samples WT2913-1 and 2 were originally extracted and analyzed within hold time. The associated method blank, WG4690-1, had a reportable value for PRO of 82 mg/Kg, which is above the PQL of 20 mg/Kg. The associated laboratory control sample duplicates, WG4690-2 and 3, had PRO recoveries that were high and outside of the method acceptance limits. These deviations are mainly due to a peak that elutes within the PRO retention time range. It was determined that the source of the contamination was from the acetone that was used during the extraction. The client was contacted and informed the laboratory to proceed with reextraction. These samples were reextracted three days out of hold time using 100% methylene chloride instead of a 1:1 mix of methylene chloride and acetone. The results from both extractions are included in the report.

The calibration verification standard (file CTL2004) had low response for the surrogate, o-terphenyl, and 2 individual hydrocarbons, which resulted in %D's that were above the method acceptance limit of 25%. Since the method requirement applies to only the PRO range response, which was acceptable, the associated samples were not reanalyzed. The associated samples may be biased low for the aforementioned surrogate.

8260B Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The acceptance limits for the MS/MSD are for a short list of the spiked compounds. Katahdin standard operating procedure is to not take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory contaminants acetone and methylene chloride) in the LCS are outside of the QC limits.

Some method blanks may have detected one or more target analytes above the MDL. None of these analytes were detected in the samples.

Sample WT2857-4 had a low recovery for one surrogate that was outside of the established laboratory acceptance limits. This sample also had a low response for one internal standard that resulted in a %D that was outside of the method acceptance limits of -50% to 100%. The sample was reanalyzed with similar responses for the internal standards and low recoveries for two surrogates indicating a matrix effect. The results from both analyses are included in the report.

8082 Analysis

Sample WT2857-2 contained Aroclor 1254 and Aroclor 1260. According to SW846 method 8082 section 7.9.2, three to five characteristic peaks are to be used for quantitation. Since many of the peaks from Aroclor 1254 have the same retention time as those from Aroclor 1260, there is a lot of overlap. In order to avoid reporting a high biased value due to coelution of peaks from the two aroclors, peaks that were predominant in one aroclor and not in the other were chosen. Since most of the peaks coelute, Aroclor 1254 was quantitated using one or two peaks.

Sample WT2857-2 had low recoveries for the surrogate DCB on both channels, which was outside of the laboratory established acceptance limits. Since the recoveries were within the acceptance limits, the sample was not reextracted.

8081 Analysis

The laboratory control sample duplicate (LCSD) WG4605-3 had a high recovery for the extraction surrogate TCX on the B channel, which was outside of the laboratory established acceptance limits. Since the recovery for DCB was acceptable the sample was not reanalyzed.

The closing CV (file 8TL1078) had a low response for gamma-BHC on the A channel, which resulted in a %D that was outside of the method acceptance limit of 15%. Since the response on the confirmation channel was acceptable and the associated samples did not detect gamma-BHC above the MDL, the samples were not reanalyzed.

The LCS WG4477-2 and LCSD WG4477-3 had low recoveries for the spiked analytes endosulfan I and endosulfan II, which were outside of the laboratory established acceptance limits.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of Katahdin SDG CTO318-2 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Waste", SW-846, November 1986, Third Edition.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Soil-matrix Katahdin Sample Nos. WT2857-(1,2) were digested for ICP analysis on 11/19/03 (QC Batch TK19ICS0) in accordance with USEPA Method 3050B.

ICP analyses of SDG CTO318-2 sample digestates were performed using a Thermo Jarrell Ash (TJA) 61E ICP spectrometer and a TJA Trace ICP spectrometer. All samples were analyzed within holding times and all analytical run QC criteria were met, with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question.

Analysis of Mercury by Cold Vapor Atomic Absorption (CVAA)

Soil-matrix Katahdin Sample Nos. WT2857-(1,2) were digested for mercury analysis on 11/26/03 (QC Batch TK26HGS0) in accordance with USEPA Method 7471A.

Mercury analyses of Katahdin SDG CTO318-2 sample digestates were performed using a Leeman Labs PS200 automated mercury analyzer. All samples were analyzed within holding times and all analytical run QC criteria were met.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

María Crouch
12.09.03
María Crouch
Quality Assurance Officer

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Level: (low/med) LOW

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 DBF#	SMC2 DCA#	SMC3 TOL#	SMC4 BFB#	TOT OUT
01	WG4544-LCS	WG4544-1	79	77	85	84	0
02	WG4544-BLANK	WG4544-2	76	78	80	79	0
03	IR1-DSB-01-1103	WT2857-4	73	73	80	49*	1
04							
05							
06							
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		QC LIMITS
SMC1 (DBF)	= Dibromofluoromethane	(69-148)
SMC2 (DCA)	= 1,2-Dichloroethane-D4	(66-149)
SMC3 (TOL)	= Toluene-D8	(68-147)
SMC4 (BFB)	= P-Bromofluorobenzene	(64-152)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Level: (low/med) LOW

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 DBF#	SMC2 DCA#	SMC3 TOL#	SMC4 BFB#	TOT OUT
01	WG4629-LCS	WG4629-1	89	99	96	101	0
02	WG4629-BLANK	WG4629-2	95	110	103	105	0
03	G01-SB-01-1103L	WT2880-1	82	102	92	88	0
04	G01-SB-05-1103M	WT2880-2	80	93	85	85	0
05	IR1-DSB-05-1103	WT2857-3RA	91	106	90	65	0
06	IR1-DSB-01-1103	WT2857-4RA	71	81	57*	18*	2
07	G01-SB-19-1103H	WT2913-1	84	96	89	84	0
08	KW-DUP-05-1103	WT2913-2RA	83	96	85	80	0
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		QC LIMITS
SMC1 (DBF)	= Dibromofluoromethane	(69-148)
SMC2 (DCA)	= 1,2-Dichloroethane-D4	(66-149)
SMC3 (TOL)	= Toluene-D8	(68-147)
SMC4 (BFB)	= P-Bromofluorobenzene	(64-152)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 DBF#	SMC2 DCA#	SMC3 TOL#	SMC4 BFB#	TOT OUT
01	WG4630-LCS	WG4630-1	93	100	93	95	0
02	WG4630-BLANK	WG4630-2	94	106	93	93	0
03	KWTB-111203	WT2857-5	97	104	95	89	0
04							
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06							
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		QC LIMITS
SMC1 (DBF)	= Dibromofluoromethane	(75-129)
SMC2 (DCA)	= 1,2-Dichloroethane-D4	(65-135)
SMC3 (TOL)	= Toluene-D8	(82-120)
SMC4 (BFB)	= P-Bromofluorobenzene	(69-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Katahdin Analytical Services 1000005

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG4544-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID: F2088 Lab Sample ID: WG4544-2

Date Analyzed: 11/14/03 Time Analyzed: 1104

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: GCMS-F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG4544-LCS	WG4544-1	F2086	11/14/03	0917
02	IR1-DSB-01-1103	WT2857-4	F2098	11/14/03	1728
03					
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COMMENTS:

Katahdin Analytical Services 1000006

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG4629-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID: F2123 Lab Sample ID: WG4629-2

Date Analyzed: 11/18/03 Time Analyzed: 1142

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: GCMS-F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG4629-LCS	WG4629-1	F2122	11/18/03	1056
02	G01-SB-01-1103L	WT2880-1	F2124	11/18/03	1234
03	G01-SB-05-1103M	WT2880-2	F2125	11/18/03	1312
04	IR1-DSB-05-1103	WT2857-3RA	F2128	11/18/03	1505
05	IR1-DSB-01-1103	WT2857-4RA	F2129	11/18/03	1543
06	G01-SB-19-1103H	WT2913-1	F2131	11/18/03	1658
07	KW-DUP-05-1103	WT2913-2RA	F2134	11/18/03	1851
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COMMENTS:

Katahdin Analytical Services 1000007

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG4630-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID: S8959 Lab Sample ID: WG4630-2

Date Analyzed: 11/18/03 Time Analyzed: 0948

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-S

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG4630-LCS	WG4630-1	S8957	11/18/03	0833
02	KWTB-111203	WT2857-5	S8962	11/18/03	1138
03					
04					
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COMMENTS:

Katahdin Analytical Services 1000008

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/14/03
Report Date: 12/03/2003
Matrix: SOIL
% Solids: 100

Lab ID: WG4544-2
Client ID: WG4544-Blank
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5035
Analyst: JLP
Analysis Method: SW846 8260B
Lab Prep Batch: WG4544
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	5	1.0	5	5	3
74-83-9	Bromomethane	U	5	1.0	5	5	2
75-01-4	Vinyl chloride	U	5	1.0	5	5	1
75-00-3	Chloroethane	U	5	1.0	5	5	2
75-09-2	Methylene Chloride	U	5	1.0	5	5	4
67-64-1	Acetone	U	25	1.0	25	25	9
75-15-0	Carbon Disulfide	U	5	1.0	5	5	1
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	2
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	1
156-59-2	cis-1,2-Dichloroethene	U	5	1.0	5	5	2
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	1
67-66-3	Chloroform	U	5	1.0	5	5	1
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	1
78-93-3	2-Butanone	U	25	1.0	25	25	7
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	1
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	1
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	2
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	2
79-01-6	Trichloroethene	U	5	1.0	5	5	2
124-48-1	Dibromochloromethane	U	5	1.0	5	5	2
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	1
71-43-2	Benzene	U	5	1.0	5	5	1
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	2
75-25-2	Bromoform	U	5	1.0	5	5	1
108-10-1	4-methyl-2-pentanone	U	25	1.0	25	25	12
591-78-6	2-Hexanone	U	25	1.0	25	25	8
127-18-4	Tetrachloroethene	U	5	1.0	5	5	2
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	2
108-88-3	Toluene	U	5	1.0	5	5	2
540-59-0	1,2-Dichloroethylene (total)	U	10	1.0	10	10	3
108-90-7	Chlorobenzene	U	5	1.0	5	5	1
100-41-4	Ethylbenzene	U	5	1.0	5	5	1
100-42-5	Styrene	U	5	1.0	5	5	1
	m+p-Xylenes	U	10	1.0	10	10	2
95-47-6	o-Xylene	U	5	1.0	5	5	0.9
1330-20-7	Xylenes (total)	U	15	1.0	15	15	3
1868-53-7	Dibromofluoromethane		76%				
17060-07-0	1,2-Dichloroethane-D4		78%				
2037-26-5	Toluene-D8		80%				
460-00-4	P-Bromofluorobenzene		79%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/18/03
Report Date: 12/03/2003
Matrix: SOIL
% Solids: 100

Lab ID: WG4629-2
Client ID: WG4629-Blank
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5035
Analyst: JLP
Analysis Method: SW846 8260B
Lab Prep Batch: WG4629
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	5	1.0	5	5	2
74-87-3	Chloromethane	U	5	1.0	5	5	3
75-01-4	Vinyl chloride	U	5	1.0	5	5	1
74-83-9	Bromomethane	U	5	1.0	5	5	2
75-00-3	Chloroethane	U	5	1.0	5	5	2
75-69-4	Trichlorofluoromethane	U	5	1.0	5	5	2
100-44-7	Diethyl Ether	U	5	1.0	5	5	2
75-65-0	Tertiary-butyl alcohol	U	25	1.0	25	25	4
75-35-4	1,1-Dichloroethene	U	5	1.0	5	5	2
75-15-0	Carbon Disulfide	U	5	1.0	5	5	1
76-13-1	Freon-113	U	5	1.0	5	5	2
74-88-4	Iodomethane	U	5	1.0	5	5	2
107-02-8	Acrolein	U	25	1.0	25	25	13
75-09-2	Methylene Chloride	U	5	1.0	5	5	4
67-64-1	Acetone	U	25	1.0	25	25	9
78-83-1	Isobutyl Alcohol	U	100	1.0	100	100	78
156-60-5	trans-1,2-Dichloroethene	U	5	1.0	5	5	1
107-05-1	Allyl Chloride	U	5	1.0	5	5	1
1634-04-4	Methyl tert-butyl ether	U	10	1.0	10	10	2
75-05-8	Acetonitrile	U	50	1.0	50	50	32
108-20-3	Di-isopropyl ether	U	5	1.0	5	5	1
110-54-3	Hexane	U	5	1.0	5	5	1
126-99-8	Chloroprene	U	5	1.0	5	5	4
126-98-7	Methacrylonitrile	U	50	1.0	50	50	11
107-12-0	Propionitrile	U	50	1.0	50	50	16
75-34-3	1,1-Dichloroethane	U	5	1.0	5	5	1
107-13-1	Acrylonitrile	U	25	1.0	25	25	6
637-92-3	Ethyl tertiary-butyl ether	U	5	1.0	5	5	1
108-05-4	Vinyl Acetate	U	5	1.0	5	5	3
156-59-2	cis-1,2-Dichloroethene	U	5	1.0	5	5	2
540-59-0	1,2-Dichloroethylene (total)	U	10	1.0	10	10	3
80-62-6	Methyl Methacrylate	U	5	1.0	5	5	1
594-20-7	2,2-Dichloropropane	U	5	1.0	5	5	2
74-97-5	Bromochloromethane	U	5	1.0	5	5	1
67-66-3	Chloroform	U	5	1.0	5	5	1
56-23-5	Carbon Tetrachloride	U	5	1.0	5	5	2
109-99-9	Tetrahydrofuran	U	25	1.0	25	25	16
71-55-6	1,1,1-Trichloroethane	U	5	1.0	5	5	1
563-58-6	1,1-Dichloropropene	U	5	1.0	5	5	1
78-93-3	2-Butanone	U	25	1.0	25	25	7
71-43-2	Benzene	U	5	1.0	5	5	1
1735-17-7	Cyclohexane	U	5	1.0	5	5	0.4
97-63-2	Ethyl Methacrylate	U	5	1.0	5	5	0.9

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/18/03
Report Date: 12/03/2003
Matrix: SOIL
% Solids: 100

Lab ID: WG4629-2
Client ID: WG4629-Blank
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5035
Analyst: JLP
Analysis Method: SW846 8260B
Lab Prep Batch: WG4629
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
96-33-3	Methyl Acrylate	U	5	1.0	5	5	1
994-05-8	Tertiary-amyl methyl ether	U	5	1.0	5	5	1
107-06-2	1,2-Dichloroethane	U	5	1.0	5	5	1
79-01-6	Trichloroethene	U	5	1.0	5	5	2
74-95-3	Dibromomethane	U	5	1.0	5	5	2
78-87-5	1,2-Dichloropropane	U	5	1.0	5	5	2
75-27-4	Bromodichloromethane	U	5	1.0	5	5	1
10061-01-5	cis-1,3-dichloropropene	U	5	1.0	5	5	2
544-10-5	1-Chlorohexane	U	5	1.0	5	5	0.4
123-91-1	1,4-Dioxane	U	100	1.0	100	100	50
110-75-8	2-Chloroethylvinylether	U	5	1.0	5	5	3
108-88-3	Toluene	U	5	1.0	5	5	2
108-10-1	4-methyl-2-pentanone	U	25	1.0	25	25	12
127-18-4	Tetrachloroethene	U	5	1.0	5	5	2
10061-02-6	trans-1,3-Dichloropropene	U	5	1.0	5	5	2
79-00-5	1,1,2-Trichloroethane	U	5	1.0	5	5	1
124-48-1	Dibromochloromethane	U	5	1.0	5	5	2
142-28-9	1,3-Dichloropropane	U	5	1.0	5	5	1
106-93-4	1,2-Dibromoethane	U	5	1.0	5	5	2
591-78-6	2-Hexanone	U	25	1.0	25	25	8
108-90-7	Chlorobenzene	U	5	1.0	5	5	1
100-41-4	Ethylbenzene	U	5	1.0	5	5	1
630-20-6	1,1,1,2-Tetrachloroethane	U	5	1.0	5	5	1
1330-20-7	Xylenes (total)	U	15	1.0	15	15	3
	m+p-Xylenes	U	10	1.0	10	10	2
95-47-6	o-Xylene	U	5	1.0	5	5	0.9
100-42-5	Styrene	U	5	1.0	5	5	1
75-25-2	Bromoform	U	5	1.0	5	5	1
98-82-8	Isopropylbenzene	U	5	1.0	5	5	2
1476-11-5	cis-1,4-Dichloro-2-Butene	U	5	1.0	5	5	2
110-57-6	trans-1,4-Dichloro-2-Butene	U	5	1.0	5	5	2
108-86-1	Bromobenzene	U	5	1.0	5	5	2
103-65-1	N-Propylbenzene	U	5	1.0	5	5	2
3017-95-6	2-bromo-1-chloropropane	U	5	1.0	5	5	2
79-34-5	1,1,2,2-Tetrachloroethane	U	5	1.0	5	5	2
108-67-8	1,3,5-Trimethylbenzene	U	5	1.0	5	5	2
95-49-8	2-Chlorotoluene	U	5	1.0	5	5	2
96-18-4	1,2,3-Trichloropropane	U	5	1.0	5	5	4
106-43-4	4-Chlorotoluene	U	5	1.0	5	5	2
98-06-6	tert-Butylbenzene	U	5	1.0	5	5	2
76-01-1	Pentachloroethane	U	5	1.0	5	5	2
95-63-6	1,2,4-Trimethylbenzene	U	5	1.0	5	5	1
99-87-6	P-Isopropyltoluene	U	5	1.0	5	5	1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/18/03
Report Date: 12/03/2003
Matrix: SOIL
% Solids: 100

Lab ID: WG4629-2
Client ID: WG4629-Blank
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5035
Analyst: JLP
Analysis Method: SW846 8260B
Lab Prep Batch: WG4629
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
541-73-1	1,3-Dichlorobenzene	U	5	1.0	5	5	1
106-46-7	1,4-Dichlorobenzene	U	5	1.0	5	5	2
104-51-8	N-Butylbenzene	U	5	1.0	5	5	2
135-98-8	sec-Butylbenzene	U	5	1.0	5	5	1
95-50-1	1,2-Dichlorobenzene	U	5	1.0	5	5	0.9
96-12-8	1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5	2
108-70-3	1,3,5-Trichlorobenzene	U	5	1.0	5	5	2
87-68-3	Hexachlorobutadiene	U	5	1.0	5	5	2
120-82-1	1,2,4-Trichlorobenzene	U	5	1.0	5	5	3
526-73-8	1,2,3-Trimethylbenzene	U	5	1.0	5	5	2
91-20-3	Naphthalene	U	5	1.0	5	5	3
87-61-6	1,2,3-Trichlorobenzene	U	5	1.0	5	5	2
79-20-9	Methyl Acetate	U	0.00	1.0	0.00	0.00	0.2
108-87-2	Methylcyclohexane	U	5	1.0	5	5	0.5
1868-53-7	Dibromofluoromethane		95%				
17060-07-0	1,2-Dichloroethane-D4		110%				
2037-26-5	Toluene-D8		103%				
460-00-4	P-Bromofluorobenzene		105%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/18/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WG4630-2
Client ID: WG4630-Blank
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4630
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	1	1.0	1	1	0.3
74-83-9	Bromomethane	U	1	1.0	1	1	0.9
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.1
75-00-3	Chloroethane	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
67-64-1	Acetone	U	5	1.0	5	5	3
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
67-66-3	Chloroform	J	0.4	1.0	1	1	0.2
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
78-93-3	2-Butanone	U	5	1.0	5	5	2
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
71-43-2	Benzene	U	1	1.0	1	1	0.1
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
75-25-2	Bromoform	U	1	1.0	1	1	0.4
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	2
591-78-6	2-Hexanone	U	5	1.0	5	5	2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	1
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
100-42-5	Styrene	U	1	1.0	1	1	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
1868-53-7	Dibromofluoromethane		94%				
17060-07-0	1,2-Dichloroethane-D4		106%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/14/03
Report Date: 12/03/2003
Matrix: SOIL

Lab ID: WG4544-1
Client ID: WG4544-LCS
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5035
Analyst: JLP
Analysis Method: SW846 8260B
Lab Prep Batch: WG4544
Units: ug/Kg

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	63	127	0-184
Chloromethane	50	NA	49	99	33-158
Vinyl chloride	50	NA	52	105	40-162
Bromomethane	50	NA	49	97	53-133
Chloroethane	50	NA	58	117	61-132
Trichlorofluoromethane	50	NA	48	95	60-138
Diethyl Ether	50	NA	49	98	66-135
Tertiary-butyl alcohol	250	NA	228	91	60-140
1,1-Dichloroethene	50	NA	54	107	65-142
Carbon Disulfide	50	NA	48	95	60-134
Freon-113	50	NA	53	105	60-140
Iodomethane	50	NA	42	84	60-140
Acrolein	250	NA	261	104	38-175
Methylene Chloride	50	NA	44	87	32-127
Acetone	50	NA	66	* 132	0-121
Isobutyl Alcohol	1000	NA	870	87	60-140
trans-1,2-Dichloroethene	50	NA	54	107	69-135
Allyl Chloride	50	NA	44	88	60-140
Methyl tert-butyl ether	100	NA	95	95	0-344
Acetonitrile	500	NA	499	100	60-140
Di-isopropyl ether	50	NA	50	100	60-140
Hexane		NA			60-140
Chloroprene	50	NA	49	98	60-140
Methacrylonitrile	500	NA	460	92	60-140
Propionitrile	500	NA	450	90	60-140
1,1-Dichloroethane	50	NA	52	103	63-143
Acrylonitrile	250	NA	78	31	2-184
Ethyl tertiary-butyl ether	50	NA	50	99	60-140
Vinyl Acetate	50	NA	39	78	0-223
cis-1,2-Dichloroethene	50	NA	50	100	77-125
1,2-Dichloroethylene (total)	100	NA	103	103	69-135
Methyl Methacrylate	50	NA	52	104	60-140
2,2-Dichloropropane	50	NA	51	101	56-144
Bromochloromethane	50	NA	50	100	78-126
Chloroform	50	NA	48	96	76-123
Carbon Tetrachloride	50	NA	55	110	66-127
Tetrahydrofuran	50	NA	34	67	31-164
1,1,1-Trichloroethane	50	NA	51	103	75-127
1,1-Dichloropropene	50	NA	54	107	53-130
2-Butanone	50	NA	79	* 158	39-137
Benzene	50	NA	52	104	83-120
Cyclohexane		NA			60-140
Ethyl Methacrylate	50	NA	54	107	60-140
Methyl Acrylate	50	NA	50	100	60-140
Tertiary-amyl methyl ether	50	NA	52	103	60-140

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/14/03
Report Date: 12/03/2003
Matrix: SOIL

Lab ID: WG4544-1
Client ID: WG4544-LCS
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5035
Analyst: JLP
Analysis Method: SW846 8260B
Lab Prep Batch: WG4544
Units: ug/Kg

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
1,2-Dichloroethane	50	NA	53		106	78-125
Trichloroethene	50	NA	58		116	79-118
Dibromomethane	50	NA	57		114	82-124
1,2-Dichloropropane	50	NA	50		100	76-120
Bromodichloromethane	50	NA	51		102	81-124
cis-1,3-dichloropropene	50	NA	56		111	77-141
1-Chlorohexane	50	NA	0.00	*	0	60-140
1,4-Dioxane	1000	NA	0.00	*	0	60-140
2-Chloroethylvinylether		NA				0-232
Toluene	50	NA	52		105	77-124
4-methyl-2-pentanone	50	NA	52		104	59-165
Tetrachloroethene	50	NA	58		116	61-127
trans-1,3-Dichloropropene	50	NA	56		111	74-151
1,1,2-Trichloroethane	50	NA	52		105	34-154
Dibromochloromethane	50	NA	58		115	72-131
1,3-Dichloropropane	50	NA	54		108	76-129
1,2-Dibromoethane	50	NA	57		113	79-128
2-Hexanone	50	NA	61		123	60-144
Chlorobenzene	50	NA	53		106	80-121
Ethylbenzene	50	NA	52		105	79-149
1,1,1,2-Tetrachloroethane	50	NA	55		110	77-127
Xylenes (total)	150	NA	159		106	71-136
m+p-Xylenes	100	NA	106		106	73-126
o-Xylene	50	NA	53		106	71-136
Styrene	50	NA	52		103	73-134
Bromoform	50	NA	60		120	58-145
Isopropylbenzene	50	NA	54		107	70-133
cis-1,4-Dichloro-2-Butene	50	NA	51		102	60-140
trans-1,4-Dichloro-2-Butene	50	NA	46		91	60-140
Bromobenzene	50	NA	53		106	72-121
N-Propylbenzene	50	NA	51		102	65-139
2-bromo-1-chloropropane	50	NA	0.00	*	0	60-140
1,1,2,2-Tetrachloroethane	50	NA	53		106	79-127
1,3,5-Trimethylbenzene	50	NA	50		101	73-129
2-Chlorotoluene	50	NA	50		100	72-123
1,2,3-Trichloropropane	50	NA	52		103	41-133
4-Chlorotoluene	50	NA	51		101	58-134
tert-Butylbenzene	50	NA	53		105	72-130
Pentachloroethane	50	NA	52		105	60-140
1,2,4-Trimethylbenzene	50	NA	48		96	70-124
P-Isopropyltoluene	50	NA	51		101	69-132
1,3-Dichlorobenzene	50	NA	52		105	70-120
1,4-Dichlorobenzene	50	NA	51		102	58-121
N-Butylbenzene	50	NA	48		96	66-135
sec-Butylbenzene	50	NA	50		100	72-131

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/14/03
Report Date: 12/03/2003
Matrix: SOIL

Lab ID: WG4544-1
Client ID: WG4544-LCS
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5035
Analyst: JLP
Analysis Method: SW846 8260B
Lab Prep Batch: WG4544
Units: ug/Kg

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
1,2-Dichlorobenzene	50	NA	52	103	70-123
1,2-Dibromo-3-Chloropropane	50	NA	48	95	1-190
1,3,5-Trichlorobenzene	50	NA	48	96	17-144
Hexachlorobutadiene	50	NA	49	97	15-147
1,2,4-Trichlorobenzene	50	NA	47	94	7-151
1,2,3-Trimethylbenzene	50	NA	49	98	60-140
Naphthalene	50	NA	48	96	8-165
1,2,3-Trichlorobenzene	50	NA	36	73	1-156
Methyl Acetate	50	NA	51	102	60-140
Methylcyclohexane	50	NA	53	105	60-140

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/18/03
Report Date: 12/03/2003
Matrix: SOIL

Lab ID: WG4629-1
Client ID: WG4629-LCS
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5035
Analyst: JLP
Analysis Method: SW846 8260B
Lab Prep Batch: WG4629
Units: ug/Kg

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	64		128	0-184
Chloromethane	50	NA	47		94	33-158
Vinyl chloride	50	NA	50		100	40-162
Bromomethane	50	NA	53		106	53-133
Chloroethane	50	NA	50		100	61-132
Trichlorofluoromethane	50	NA	45		90	60-138
Diethyl Ether	50	NA	49		97	66-135
Tertiary-butyl alcohol	250	NA	257		103	60-140
1,1-Dichloroethene	50	NA	46		93	65-142
Carbon Disulfide	50	NA	38		76	60-134
Freon-113	50	NA	45		90	60-140
Iodomethane	50	NA	48		96	60-140
Acrolein	250	NA	290		116	38-175
Methylene Chloride	50	NA	53		107	32-127
Acetone	50	NA	101	*	202	0-121
Isobutyl Alcohol	1000	NA	1170		117	60-140
trans-1,2-Dichloroethene	50	NA	46		93	69-135
Allyl Chloride	50	NA	56		112	60-140
Methyl tert-butyl ether	100	NA	87		87	0-344
Acetonitrile	500	NA	537		107	60-140
Di-isopropyl ether	50	NA	45		89	60-140
Hexane		NA				60-140
Chloroprene	50	NA	45		90	60-140
Methacrylonitrile	500	NA	503		101	60-140
Propionitrile	500	NA	496		99	60-140
1,1-Dichloroethane	50	NA	44		87	63-143
Acrylonitrile	250	NA	280		112	2-184
Ethyl tertiary-butyl ether	50	NA	46		92	60-140
Vinyl Acetate	50	NA	39		78	0-223
cis-1,2-Dichloroethene	50	NA	40		81	77-125
1,2-Dichloroethylene (total)	100	NA	87		87	69-135
Methyl Methacrylate	50	NA	55		110	60-140
2,2-Dichloropropane	50	NA	45		89	56-144
Bromochloromethane	50	NA	45		90	78-126
Chloroform	50	NA	41		82	76-123
Carbon Tetrachloride	50	NA	43		86	66-127
Tetrahydrofuran	50	NA	43		87	31-164
1,1,1-Trichloroethane	50	NA	43		85	75-127
1,1-Dichloropropene	50	NA	43		87	53-130
2-Butanone	50	NA	91	*	182	39-137
Benzene	50	NA	42		83	83-120
Cyclohexane		NA				60-140
Ethyl Methacrylate	50	NA	50		100	60-140
Methyl Acrylate	50	NA	0.00	*	0	60-140
Tertiary-amyl methyl ether	50	NA	47		94	60-140

FORM III VOA-2

F2122.D

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/18/03
Report Date: 12/03/2003
Matrix: SOIL

Lab ID: WG4629-1
Client ID: WG4629-LCS
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5035
Analyst: JLP
Analysis Method: SW846 8260B
Lab Prep Batch: WG4629
Units: ug/Kg

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
1,2-Dichloroethane	50	NA	44		88	78-125
Trichloroethene	50	NA	46		91	79-118
Dibromomethane	50	NA	46		91	82-124
1,2-Dichloropropane	50	NA	43		87	76-120
Bromodichloromethane	50	NA	41		82	81-124
cis-1,3-dichloropropene	50	NA	46		91	77-141
1-Chlorohexane	50	NA	0.00	*	0	60-140
1,4-Dioxane	1000	NA	0.00	*	0	60-140
2-Chloroethylvinylether	50	NA	0.00		0	0-232
Toluene	50	NA	41		81	77-124
4-methyl-2-pentanone	50	NA	54		108	59-165
Tetrachloroethene	50	NA	41		82	61-127
trans-1,3-Dichloropropene	50	NA	46		91	74-151
1,1,2-Trichloroethane	50	NA	44		89	34-154
Dibromochloromethane	50	NA	44		87	72-131
1,3-Dichloropropane	50	NA	43		87	76-129
1,2-Dibromoethane	50	NA	46		92	79-128
2-Hexanone	50	NA	68		135	60-144
Chlorobenzene	50	NA	41		82	80-121
Ethylbenzene	50	NA	40		81	79-149
1,1,1,2-Tetrachloroethane	50	NA	41		83	77-127
Xylenes (total)	150	NA	123		82	71-136
m+p-Xylenes	100	NA	82		82	73-126
o-Xylene	50	NA	41		82	71-136
Styrene	50	NA	40		80	73-134
Bromoform	50	NA	45		91	58-145
Isopropylbenzene	50	NA	41		82	70-133
cis-1,4-Dichloro-2-Butene	50	NA	48		96	60-140
trans-1,4-Dichloro-2-Butene	50	NA	44		88	60-140
Bromobenzene	50	NA	39		79	72-121
N-Propylbenzene	50	NA	40		81	65-139
2-bromo-1-chloropropane	50	NA	0.00	*	0	60-140
1,1,2,2-Tetrachloroethane	50	NA	44		89	79-127
1,3,5-Trimethylbenzene	50	NA	40		80	73-129
2-Chlorotoluene	50	NA	40		80	72-123
1,2,3-Trichloropropane	50	NA	48		96	41-133
4-Chlorotoluene	50	NA	40		81	58-134
tert-Butylbenzene	50	NA	40		80	72-130
Pentachloroethane	50	NA	43		86	60-140
1,2,4-Trimethylbenzene	50	NA	38		76	70-124
P-Isopropyltoluene	50	NA	40		80	69-132
1,3-Dichlorobenzene	50	NA	41		83	70-120
1,4-Dichlorobenzene	50	NA	42		83	58-121
N-Butylbenzene	50	NA	41		82	66-135
sec-Butylbenzene	50	NA	40		80	72-131

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/18/03
Report Date: 12/03/2003
Matrix: SOIL

Lab ID: WG4629-1
Client ID: WG4629-LCS
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5035
Analyst: JLP
Analysis Method: SW846 8260B
Lab Prep Batch: WG4629
Units: ug/Kg

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
1,2-Dichlorobenzene	50	NA	41		82	70-123
1,2-Dibromo-3-Chloropropane	50	NA	52		105	1-190
1,3,5-Trichlorobenzene	50	NA	60		120	17-144
Hexachlorobutadiene	50	NA	50		100	15-147
1,2,4-Trichlorobenzene	50	NA	63		126	7-151
1,2,3-Trimethylbenzene	50	NA	52		104	60-140
Naphthalene	50	NA	68		137	8-165
1,2,3-Trichlorobenzene	50	NA	92	*	185	1-156
Methyl Acetate	50	NA	48		97	60-140
Methylcyclohexane	50	NA	46		92	60-140

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/18/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4630-1
Client ID: WG4630-LCS
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4630
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	51	102	4-217
Chloromethane	50	NA	47	94	40-163
Vinyl chloride	50	NA	51	102	55-151
Bromomethane	50	NA	45	90	24-217
Chloroethane	50	NA	55	110	69-134
Trichlorofluoromethane	50	NA	45	90	71-147
Diethyl Ether	50	NA	52	105	67-135
Tertiary-butyl alcohol	250	NA	266	106	58-146
1,1-Dichloroethene	50	NA	53	107	78-136
Carbon Disulfide	50	NA	42	85	70-136
Freon-113	50	NA	51	103	60-140
Iodomethane	50	NA	41	82	60-140
Acrolein	250	NA	245	98	0-199
Methylene Chloride	50	NA	55	110	52-115
Acetone	50	NA	59	118	0-158
Isobutyl Alcohol	1000	NA	1010	101	60-140
trans-1,2-Dichloroethene	50	NA	50	101	84-131
Allyl Chloride	50	NA	62	124	60-140
Methyl tert-butyl ether	100	NA	97	97	62-130
Acetonitrile	500	NA	437	87	53-141
Di-isopropyl ether	50	NA	51	103	82-130
Hexane		NA			60-140
Chloroprene	50	NA	54	108	60-140
Methacrylonitrile	500	NA	535	107	60-140
Propionitrile	500	NA	498	100	60-140
1,1-Dichloroethane	50	NA	53	105	81-134
Acrylonitrile	250	NA	250	100	29-172
Ethyl tertiary-butyl ether	50	NA	53	106	85-124
Vinyl Acetate	50	NA	38	76	68-174
cis-1,2-Dichloroethene	50	NA	51	102	84-123
1,2-Dichloroethylene (total)	100	NA	101	101	84-131
Methyl Methacrylate	50	NA	53	106	60-140
2,2-Dichloropropane	50	NA	54	108	69-150
Bromochloromethane	50	NA	51	103	77-146
Chloroform	50	NA	50	101	80-130
Carbon Tetrachloride	50	NA	52	103	74-137
Tetrahydrofuran	50	NA	44	89	32-140
1,1,1-Trichloroethane	50	NA	52	104	76-138
1,1-Dichloropropene	50	NA	50	100	82-120
2-Butanone	50	NA	79	* 157	49-154
Benzene	50	NA	49	98	88-120
Cyclohexane		NA			60-140
Ethyl Methacrylate	50	NA	53	105	60-140
Methyl Acrylate		NA			60-140
Tertiary-amyl methyl ether	50	NA	55	110	85-125

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/18/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4630-1
Client ID: WG4630-LCS
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4630
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
1,2-Dichloroethane	50	NA	53		105	78-138
Trichloroethene	50	NA	48		96	80-125
Dibromomethane	50	NA	52		103	88-130
1,2-Dichloropropane	50	NA	52		104	80-122
Bromodichloromethane	50	NA	49		98	83-133
cis-1,3-dichloropropene	50	NA	52		104	81-138
1-Chlorohexane	50	NA	0.00	*	0	75-125
1,4-Dioxane	1000	NA	885		88	60-140
2-Chloroethylvinylether	50	NA	23	*	46	50-211
Toluene	50	NA	52		103	88-121
4-methyl-2-pentanone	50	NA	48		97	72-140
Tetrachloroethene	50	NA	48		95	77-129
trans-1,3-Dichloropropene	50	NA	54		108	81-149
1,1,2-Trichloroethane	50	NA	50		100	82-126
Dibromochloromethane	50	NA	52		104	80-133
1,3-Dichloropropane	50	NA	50		100	86-125
1,2-Dibromoethane	50	NA	52		103	88-127
2-Hexanone	50	NA	52		104	45-146
Chlorobenzene	50	NA	50		100	84-123
Ethylbenzene	50	NA	49		99	84-134
1,1,1,2-Tetrachloroethane	50	NA	50		100	83-130
Xylenes (total)	150	NA	154		103	88-123
m+p-Xylenes	100	NA	102		102	88-122
o-Xylene	50	NA	52		105	90-123
Styrene	50	NA	50		99	87-131
Bromoform	50	NA	51		103	77-138
Isopropylbenzene	50	NA	54		107	88-125
cis-1,4-Dichloro-2-Butene	50	NA	56		113	60-140
trans-1,4-Dichloro-2-Butene	50	NA	56		113	60-140
Bromobenzene	50	NA	50		100	84-133
N-Propylbenzene	50	NA	54		107	88-124
2-bromo-1-chloropropane		NA				60-140
1,1,2,2-Tetrachloroethane	50	NA	49		97	81-131
1,3,5-Trimethylbenzene	50	NA	52		103	89-124
2-Chlorotoluene	50	NA	54		107	84-128
1,2,3-Trichloropropane	50	NA	52		103	76-132
4-Chlorotoluene	50	NA	52		103	86-132
tert-Butylbenzene	50	NA	49		98	82-131
Pentachloroethane	50	NA	55		110	60-140
1,2,4-Trimethylbenzene	50	NA	49		98	88-121
P-Isopropyltoluene	50	NA	52		103	86-122
1,3-Dichlorobenzene	50	NA	51		102	86-124
1,4-Dichlorobenzene	50	NA	52		103	80-127
N-Butylbenzene	50	NA	50		99	81-133
sec-Butylbenzene	50	NA	50		101	85-122

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/18/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4630-1
Client ID: WG4630-LCS
SDG: CTO318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4630
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
1,2-Dichlorobenzene	50	NA	50	99	86-126
1,2-Dibromo-3-Chloropropane	50	NA	46	93	61-136
1,3,5-Trichlorobenzene	50	NA	51	102	67-128
Hexachlorobutadiene	50	NA	39	79	52-129
1,2,4-Trichlorobenzene	50	NA	35	70	53-157
1,2,3-Trimethylbenzene	50	NA	57	115	60-140
Naphthalene	50	NA	22	45	45-151
1,2,3-Trichlorobenzene	50	NA	22	45	30-164
Methyl Acetate	50	NA	56	113	60-140
Methylcyclohexane	50	NA	53	107	60-140

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID: FB282 BFB Injection Date: 11/13/03

Instrument ID: GCMS-F BFB Injection Time: 0919

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.1
75	30.0 - 60.0% of mass 95	48.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	67.4
175	4.0 - 9.0% of mass 174	5.5 (8.1)1
176	95.0 - 101.0% of mass 174	65.8 (97.8)1
177	5.0 - 9.0% of mass 176	4.0 (6.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050F13A	F2078	11/13/03	0948
02		VSTD020F13A	F2079	11/13/03	1026
03		VSTD010F13A	F2080	11/13/03	1104
04		VSTD005F13A	F2081	11/13/03	1141
05		VSTD200F13A	F2082	11/13/03	1219
06		VSTD100F13A	F2083	11/13/03	1256
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-F Calibration Date(s): 11/13/03 11/13/03

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 0948 1256

LAB FILE ID: RF5: F2081 RF10: F2080 RF20: F2079
RF50: F2078 RF100: F2083 RF200: F2082

COMPOUND	RF5	RF10	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	COEFFICENTS A2	%RSD OR R^2	MAX %RSD OR R^2
Chloromethane	1.030	0.953	0.925	0.851	0.816	0.940	AVRG		0.91927		8.310	15.000
Bromomethane	0.266	0.261	0.329	0.320	0.308	0.375	AVRG		0.31003		13.707	15.000
Vinyl chloride	0.728	0.710	0.725	0.681	0.673	0.776	AVRG		0.71564		5.198	15.000
Chloroethane	19518	37050	71441	169190	292350	531680	LINR	-0.1405	3.24130		0.99676	0.99000
Methylene Chloride	113660	145920	227140	326140	501630	1069800	2ORDR	-0.7235	2.57938	-0.2812	0.99151	0.99000
Acetone	12663	21997	40347	107750	166370	425310	2ORDR	-0.6682	29.0687	-8.4712	0.99155	0.99000
Carbon Disulfide	0.275	0.332	0.353	0.323	0.285	0.356	AVRG		0.32098		10.626	15.000
1,1-Dichloroethene	0.486	0.449	0.481	0.435	0.410	0.476	AVRG		0.45624		6.592	15.000
1,1-Dichloroethane	1.404	1.325	1.126	1.300	1.191	1.140	AVRG		1.24771		8.999	15.000
cis-1,2-Dichloroethene	0.570	0.537	0.571	0.536	0.593	0.575	AVRG		0.56372		3.988	15.000
trans-1,2-Dichloroethene	0.486	0.449	0.481	0.435	0.410	0.476	AVRG		0.45624		6.592	15.000
Chloroform	1.407	1.234	1.164	1.102	1.062	1.136	AVRG		1.18408		10.456	15.000
1,2-Dichloroethane	0.449	0.419	0.415	0.448	0.424	0.430	AVRG		0.43071		3.416	15.000
2-Butanone	0.046	0.050	0.051	0.063	0.054	0.060	AVRG		5e-002		12.043	15.000
1,1,1-Trichloroethane	0.851	0.846	0.893	0.840	0.843	0.883	AVRG		0.85952		2.627	15.000
Carbon Tetrachloride	0.396	0.381	0.403	0.392	0.421	0.414	AVRG		0.40127		3.713	15.000
Bromodichloromethane	0.464	0.452	0.444	0.483	0.469	0.487	AVRG		0.46664		3.592	15.000
1,2-Dichloropropane	0.449	0.421	0.410	0.424	0.397	0.412	AVRG		0.41885		4.223	15.000
cis-1,3-dichloropropene	0.430	0.402	0.427	0.467	0.468	0.472	AVRG		0.44435		6.486	15.000
Trichloroethene	0.347	0.321	0.340	0.386	0.379	0.371	AVRG		0.35750		7.085	15.000
Dibromochloromethane	0.314	0.355	0.345	0.393	0.400	0.409	AVRG		0.36953		10.133	15.000
1,1,2-Trichloroethane	0.234	0.221	0.212	0.237	0.222	0.218	AVRG		0.22395		4.265	15.000
Benzene	1.688	1.589	1.639	1.613	1.595	1.624	AVRG		1.62462		2.232	15.000
trans-1,3-Dichloropropene	0.430	0.402	0.427	0.467	0.468	0.472	AVRG		0.44435		6.486	15.000
Bromoform	0.163	0.179	0.180	0.216	0.220	0.222	AVRG		0.19705		13.005	15.000
4-methyl-2-pentanone	0.315	0.312	0.313	0.364	0.294	0.284	AVRG		0.31363		8.788	15.000
2-Hexanone	0.261	0.283	0.287	0.342	0.291	0.307	AVRG		0.29518		9.275	15.000
Tetrachloroethene	0.330	0.349	0.365	0.346	0.384	0.378	AVRG		0.35854		5.710	15.000
1,1,2,2-Tetrachloroethane	0.914	0.875	0.827	0.910	0.867	0.945	AVRG		0.88975		4.684	15.000
Toluene	0.957	0.889	0.926	0.913	0.916	0.907	AVRG		0.91826		2.474	15.000
1,2-Dichloroethylene (total)							AVRG					0.000
Chlorobenzene	1.232	1.225	1.165	1.159	1.164	1.168	AVRG		1.18538		2.842	15.000
Ethylbenzene	2.045	2.142	2.199	2.115	2.146	2.163	AVRG		2.13481		2.438	15.000
Styrene	1.121	1.209	1.203	1.243	1.287	1.285	AVRG		1.22461		5.079	15.000
m+p-Xylenes	0.774	0.780	0.795	0.769	0.767	0.750	AVRG		0.77264		1.897	15.000
o-Xylene	0.706	0.728	0.733	0.722	0.740	0.744	AVRG		0.72888		1.846	15.000
Xylenes (total)							AVRG					0.000
Dibromofluoromethane	0.678	0.680	0.614	0.630	0.612	0.630	AVRG		0.64068		4.769	15.000
1,2-Dichloroethane-D4	0.661	0.652	0.594	0.620	0.567	0.610	AVRG		0.61733		5.679	15.000
Toluene-D8	1.380	1.357	1.289	1.258	1.315	1.284	AVRG		1.31375		3.538	15.000
P-Bromofluorobenzene	0.528	0.510	0.462	0.474	0.458	0.447	AVRG		0.47986		6.642	15.000

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-F Calibration Date(s): 11/13/03 11/13/03

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 0948 1256

Average %RSD test result.
Calculate Average %RSD: 6.275636673
Maximum Average %RSD: 15.00000000
Note: Passes Average %RSD Test.

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-F Calibration Date(s): 11/17/03 11/17/03

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1124 1754

LAB FILE ID: RF5: F2109 RF10: F2108 RF20: F2107
RF50: F2112 RF100: F2114 RF200: F2110

COMPOUND	RF5	RF10	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2	
Dichlorodifluoromethane	0.411	0.428	0.414	0.384	0.362	0.407	AVRG		0.40090		5.914	15.000	
Chloromethane	0.874	0.832	0.772	0.687	0.659	0.860	AVRG		0.78053		11.616	15.000	
Vinyl chloride	0.697	0.676	0.637	0.608	0.565	0.674	AVRG		0.64288		7.711	15.000	
Bromomethane	0.286	0.344	0.314	0.319	0.271	0.288	AVRG		0.30379		8.753	15.000	
Chloroethane	19571	36306	61895	155840	277160	475150	2ORDR	1e-002	2.33398	1.72712	0.99975	0.99000	
Trichlorofluoromethane	0.871	0.808	0.764	0.764	0.687	0.788	AVRG		0.78059		7.727	15.000	
Diethyl Ether	0.441	0.383	0.341	0.352	0.322	0.393	AVRG		0.37195		11.530	15.000	
Tertiary-butyl alcohol	103510	216610	358540	856240	1760600	4301100	2ORDR	-0.8623	3.30572	-0.1088	0.99890	0.99000	
1,1-Dichloroethene	0.536	0.487	0.442	0.458	0.396	0.545	AVRG		0.47733		12.002	15.000	
Carbon Disulfide	2.107	1.830	1.752	1.816	1.540	2.240	AVRG		1.88098		13.452	15.000	
Freon-113	0.448	0.448	0.413	0.406	0.366	0.472	AVRG		0.42560		8.962	15.000	
Iodomethane	16722	51267	107920	293800	530180	873770	2ORDR	9e-002	0.98023	0.64469	0.99981	0.99000	
Acrolein	14853	24265	44056	105790	212040	719300	2ORDR	-0.9756	28.5159	-9.6871	0.99921	0.99000	
Methylene Chloride	71808	92559	130300	276340	477340	1446700	2ORDR	-0.3264	2.60248	-0.3866	0.99756	0.99000	
Acetone	12241	19858	36076	86807	161410	489970	2ORDR	-0.5921	34.5619	-14.064	0.99793	0.99000	
Isobutyl Alcohol	5382	27190	43572	133740	315530	750560	2ORDR	-0.9930	70.2626	-11.814	0.99692	0.99000	
trans-1,2-Dichloroethene	0.536	0.487	0.442	0.458	0.396	0.545	AVRG		0.47733		12.002	15.000	
Allyl Chloride	45990	87856	147960	393260	690540	2295500	2ORDR	-0.1058	1.58040	-0.1507	0.99610	0.99000	
Methyl tert-butyl ether	163520	325520	571450	1100400	2704700	5497900	LINR	-9e-002	0.71286		0.99654	0.99000	
Acetonitrile	35198	69370	115390	296380	530420	1479300	2ORDR	-2.2210	22.1069	-2.7198	0.99691	0.99000	
Di-isopropyl ether	2.804	2.839	2.402	2.413	2.242	2.757	AVRG		2.57630		9.854	15.000	
Hexane							AVRG					0.000	<-
Chloroprene	1.124	1.170	1.064	1.022	0.917	1.012	AVRG		1.05160		8.471	15.000	
Methacrylonitrile	145070	287810	531450	1152900	2442600	5501400	LINR	-0.4974	3.62291		0.99345	0.99000	
Propionitrile	22218	49175	93855	208860	453090	1029100	LINR	-0.2414	19.2554		0.99304	0.99000	
1,1-Dichloroethane	1.438	1.446	1.267	1.257	1.114	1.279	AVRG		1.30025		9.652	15.000	
Acrylonitrile	26511	51703	103740	243380	546830	1434700	2ORDR	-0.6205	10.7323	-1.2820	0.99931	0.99000	
Ethyl tertiary-butyl ether	2.259	2.313	2.011	1.918	1.868	2.236	AVRG		2.10087		9.131	15.000	
Vinyl Acetate	0.685	0.728	0.747	0.714	0.694	0.799	AVRG		0.72794		5.685	15.000	
cis-1,2-Dichloroethene	0.620	0.762	0.597	0.562	0.588	0.695	AVRG		0.63743		11.950	15.000	
1,2-Dichloroethylene (total)							AVRG					0.000	
Methyl Methacrylate	0.214	0.244	0.246	0.245	0.259	0.321	AVRG		0.25473		13.978	15.000	
2,2-Dichloropropane	1.120	1.102	1.031	0.971	0.840	0.969	AVRG		1.00533		10.229	15.000	
Bromochloromethane	0.311	0.332	0.295	0.284	0.261	0.285	AVRG		0.29461		8.318	15.000	
Chloroform	1.440	1.415	1.184	1.136	1.035	1.198	AVRG		1.23484		12.960	15.000	
Carbon Tetrachloride	0.509	0.536	0.489	0.468	0.445	0.509	AVRG		0.49269		6.599	15.000	
Tetrahydrofuran	30330	56967	120120	244610	557530	1241700	LINR	-0.1091	7.95526		0.99404	0.99000	
1,1,1-Trichloroethane	1.035	1.015	0.925	0.900	0.826	0.963	AVRG		0.94417		8.188	15.000	
1,1-Dichloropropene	0.663	0.672	0.624	0.624	0.567	0.643	AVRG		0.63202		5.940	15.000	
2-Butanone	0.043	0.051	0.053	0.051	0.051	0.058	AVRG		5e-002		9.605	15.000	
Benzene	2.108	2.204	1.847	1.814	1.635	1.844	AVRG		1.90871		10.976	15.000	
Cyclohexane	1.301	1.245	1.182	1.189	1.075	1.211	AVRG		1.20062		6.279	15.000	
Ethyl Methacrylate	0.415	0.438	0.447	0.403	0.410	0.477	AVRG		0.43165		6.459	15.000	
Methyl Acrylate							AVRG					0.000	<-

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-F Calibration Date(s): 11/17/03 11/17/03

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1124 1754

LAB FILE ID: RF5: F2109 RF10: F2108 RF20: F2107
RF50: F2112 RF100: F2114 RF200: F2110

COMPOUND	RF5	RF10	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2	
Tertiary-amyl methyl ether	1.871	1.903	1.688	1.574	1.539	1.832	AVRG		1.73444		9.034	15.000	
1,2-Dichloroethane	0.517	0.546	0.476	0.467	0.442	0.503	AVRG		0.49186		7.623	15.000	
Trichloroethene	0.393	0.475	0.505	0.456	0.395	0.433	AVRG		0.44294		10.053	15.000	
Dibromomethane	0.233	0.231	0.206	0.196	0.191	0.212	AVRG		0.21151		8.170	15.000	
1,2-Dichloropropane	0.499	0.515	0.429	0.436	0.400	0.451	AVRG		0.45505		9.628	15.000	
Bromodichloromethane	0.602	0.619	0.532	0.534	0.501	0.577	AVRG		0.56101		8.178	15.000	
cis-1,3-dichloropropene	0.553	0.553	0.498	0.506	0.471	0.555	AVRG		0.52280		6.850	15.000	
1-Chlorohexane							AVRG					0.000	
1,4-Dioxane							AVRG					0.000	
2-Chloroethylvinylether							AVRG					0.000	<-
Toluene	1.273	1.321	1.095	1.063	0.952	1.073	AVRG		1.12953		12.371	15.000	
4-methyl-2-pentanone	0.335	0.331	0.320	0.276	0.273	0.277	AVRG		0.30198		9.828	15.000	
Tetrachloroethene	0.465	0.554	0.460	0.451	0.445	0.500	AVRG		0.47915		8.593	15.000	
trans-1,3-Dichloropropene	0.553	0.553	0.498	0.506	0.471	0.555	AVRG		0.52280		6.850	15.000	
1,1,2-Trichloroethane	0.286	0.273	0.254	0.244	0.230	0.257	AVRG		0.25736		7.776	15.000	
Dibromochloromethane	0.427	0.484	0.435	0.429	0.439	0.518	AVRG		0.45558		8.209	15.000	
1,3-Dichloropropane	0.716	0.766	0.705	0.658	0.656	0.768	AVRG		0.71161		6.918	15.000	
1,2-Dibromoethane	0.310	0.310	0.289	0.269	0.270	0.302	AVRG		0.29174		6.502	15.000	
2-Hexanone	0.287	0.298	0.308	0.264	0.269	0.304	AVRG		0.28836		6.363	15.000	
Chlorobenzene	1.452	1.660	1.347	1.314	1.218	1.382	AVRG		1.39541		10.813	15.000	
Ethylbenzene	2.556	2.945	2.488	2.413	2.198	2.485	AVRG		2.51413		9.735	15.000	
1,1,1,2-Tetrachloroethane	0.484	0.568	0.476	0.465	0.452	0.525	AVRG		0.49487		8.800	15.000	
Xylenes (total)							AVRG					0.000	
m+p-Xylenes	0.957	1.089	0.922	0.871	0.783	0.851	AVRG		0.91207		11.569	15.000	
o-Xylene	0.895	1.043	0.863	0.840	0.757	0.866	AVRG		0.87736		10.677	15.000	
Styrene	1.451	1.682	1.429	1.433	1.336	1.502	AVRG		1.47208		7.867	15.000	
Bromoform	0.231	0.276	0.252	0.235	0.252	0.290	AVRG		0.25594		8.942	15.000	
Isopropylbenzene	5.622	5.477	4.798	4.872	4.342	5.503	AVRG		5.10240		9.968	15.000	
cis-1,4-Dichloro-2-Butene	0.330	0.333	0.331	0.287	0.303	0.403	AVRG		0.33133		12.005	15.000	
trans-1,4-Dichloro-2-Butene	0.241	0.298	0.297	0.303	0.263	0.344	AVRG		0.29124		12.237	15.000	
Bromobenzene	1.473	1.446	1.243	1.238	1.152	1.434	AVRG		1.33100		10.208	15.000	
N-Propylbenzene	7.075	6.963	6.223	6.206	5.360	6.403	AVRG		6.37171		9.723	15.000	
2-bromo-1-chloropropane							AVRG					0.000	
1,1,2,2-Tetrachloroethane	1.037	0.969	0.953	0.850	0.863	1.072	AVRG		0.95730		9.350	15.000	
1,3,5-Trimethylbenzene	4.472	4.588	3.879	3.839	3.377	3.950	AVRG		4.01731		11.122	15.000	
2-Chlorotoluene	4.614	4.776	3.996	3.975	3.534	4.241	AVRG		4.18904		10.889	15.000	
1,2,3-Trichloropropane	49162	73663	94907	175130	275960	550250	LINR	-0.2189	1.68989		0.99129	0.99000	
4-Chlorotoluene	4.178	4.129	3.565	3.562	3.168	3.928	AVRG		3.75492		10.432	15.000	
tert-Butylbenzene	4.840	5.090	4.299	4.240	3.822	4.608	AVRG		4.48330		10.179	15.000	
Pentachloroethane	0.918	0.982	0.843	0.814	0.730	0.942	AVRG		0.87155		10.667	15.000	
1,2,4-Trimethylbenzene	4.392	4.683	3.914	3.889	3.398	3.967	AVRG		4.04037		11.032	15.000	
P-Isopropyltoluene	4.373	4.720	4.032	3.885	3.415	4.045	AVRG		4.07839		10.856	15.000	
1,3-Dichlorobenzene	2.408	2.413	2.023	2.043	1.821	2.213	AVRG		2.15349		10.901	15.000	
1,4-Dichlorobenzene	2.309	2.427	2.099	1.919	1.718	1.917	AVRG		2.06487		12.915	15.000	

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-F Calibration Date(s): 11/17/03 11/17/03

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1124 1754

LAB FILE ID: RF5: F2109 RF10: F2108 RF20: F2107
RF50: F2112 RF100: F2114 RF200: F2110

COMPOUND	RF5	RF10	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	COEFFICENTS A2	%RSD OR R^2	MAX %RSD OR R^2
N-Butylbenzene	4.112	4.432	3.880	3.695	3.052	3.576	AVRG		3.79125		12.497	15.000
sec-Butylbenzene	5.669	5.924	5.164	5.055	4.434	5.190	AVRG		5.23953		9.893	15.000
1,2-Dichlorobenzene	1.949	1.990	1.751	1.638	1.515	1.794	AVRG		1.77293		10.208	15.000
1,2-Dibromo-3-Chloropropane	6196	16200	27629	55117	98541	197890	LINR	-3e-002	4.47131		0.99506	0.99000
1,3,5-Trichlorobenzene	21623	65553	98305	198120	339650	697990	LINR	-0.1630	2.86966		0.99614	0.99000
Hexachlorobutadiene	8753	28584	42953	80968	144390	259710	LINR	-0.1369	3.44015		0.99745	0.99000
1,2,4-Trichlorobenzene	8947	35977	57598	87119	145480	229710	2ORDR	-0.1210	2.53525	1.27610	0.99482	0.99000
1,2,3-Trimethylbenzene	91662	211560	326160	761260	1372000	2838600	LINR	-1e-001	0.69522		0.99851	0.99000
Naphthalene	12765	49673	93428	127100	225890	324460	2ORDR	-4e-002	1.18512	1.00334	0.99607	0.99000
1,2,3-Trichlorobenzene	3102	16394	30385	33121	53949	68096	2ORDR	9.e-002	-1.0922	42.7436	0.99203	0.99000
Methyl Acetate	0.357	0.433	0.408	0.281	0.368	0.419	AVRG		0.37778		14.761	15.000
Methylcyclohexane	1.102	1.152	1.153	1.062	0.967	1.117	AVRG		1.09221		6.412	15.000
Dibromofluoromethane	0.793	0.768	0.614	0.616	0.552	0.617	AVRG		0.66008		14.680	15.000
1,2-Dichloroethane-D4	38185	64740	108960	245500	486440	1100300	LINR	-5e-003	1.78179		0.99667	0.99000
Toluene-D8	131070	252970	394120	953050	1773400	4015200	LINR	-3e-002	0.74972		0.99708	0.99000
P-Bromofluorobenzene	50340	94742	148420	343870	634760	1380600	LINR	-7e-002	2.19143		0.99835	0.99000

Average %RSD test result.

Calculate Average %RSD: 9.665213585
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-S Calibration Date(s): 11/07/03 11/07/03

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 0936 1453

LAB FILE ID: RF1: S8816 RF5: S8817 RF20: S8813
RF50: S8810 RF100: S8812 RF200: S8811

								COEFFICENTS			%RSD	MAX %RSD
COMPOUND	RF1	RF5	RF20	RF50	RF100	RF200	CURVE	A0	A1	A2	OR R^2	OR R^2
Chloromethane	0.591	0.480	0.440	0.451	0.449	0.465	AVRG		0.47927		11.794	15.000
Bromomethane	2795	5913	50458	115340	291400	604460	LINR	8e-002	4.01534		0.99740	0.99000
Vinyl chloride	0.566	0.522	0.450	0.486	0.435	0.463	AVRG		0.48707		10.132	15.000
Chloroethane	4611	20733	80138	167140	351930	707220	LINR	-2e-002	3.49400		0.99705	0.99000
Methylene Chloride	17222	41016	142600	262920	635390	1168000	LINR	-6e-002	2.11423		0.99995	0.99000
Acetone	3533	11688	52597	105580	264690	405520	2ORDR	0.18683	18.5820	16.5494	0.99876	0.99000
Carbon Disulfide	1.979	1.798	1.586	1.596	1.554	1.537	AVRG		1.67509		10.530	15.000
1,1-Dichloroethene	0.457	0.417	0.394	0.390	0.382	0.379	AVRG		0.40320		7.334	15.000
1,1-Dichloroethane	0.962	0.916	0.815	0.813	0.793	0.783	AVRG		0.84727		8.690	15.000
cis-1,2-Dichloroethene	0.593	0.554	0.526	0.494	0.506	0.504	AVRG		0.52960		7.133	15.000
trans-1,2-Dichloroethene	0.608	0.518	0.487	0.464	0.461	0.448	AVRG		0.49752		11.913	15.000
Chloroform	1.202	0.999	0.892	0.894	0.863	0.871	AVRG		0.95370		13.767	15.000
1,2-Dichloroethane	0.532	0.470	0.449	0.497	0.443	0.450	AVRG		0.47357		7.316	15.000
2-Butanone	0.060	0.047	0.048	0.049	0.050	0.043	AVRG		5e-002		11.703	15.000
1,1,1-Trichloroethane	0.766	0.763	0.679	0.705	0.678	0.692	AVRG		0.71397		5.691	15.000
Carbon Tetrachloride	0.428	0.432	0.398	0.430	0.410	0.422	AVRG		0.41982		3.226	15.000
Bromodichloromethane	0.541	0.502	0.489	0.510	0.484	0.485	AVRG		0.50193		4.308	15.000
1,2-Dichloropropane	0.342	0.337	0.330	0.326	0.326	0.318	AVRG		0.32972		2.575	15.000
cis-1,3-dichloropropene	0.561	0.567	0.591	0.615	0.598	0.583	AVRG		0.58578		3.417	15.000
Trichloroethene	0.441	0.417	0.371	0.357	0.357	0.346	AVRG		0.38174		10.084	15.000
Dibromochloromethane	0.398	0.385	0.399	0.422	0.411	0.393	AVRG		0.40130		3.334	15.000
1,1,2-Trichloroethane	0.300	0.252	0.254	0.266	0.252	0.234	AVRG		0.25989		8.638	15.000
Benzene	1.531	1.612	1.478	1.409	1.412	1.369	AVRG		1.46844		6.182	15.000
trans-1,3-Dichloropropene	0.503	0.451	0.478	0.515	0.487	0.481	AVRG		0.48595		4.563	15.000
Bromoform	0.258	0.258	0.258	0.292	0.286	0.256	AVRG		0.26783		6.093	15.000
4-methyl-2-pentanone	0.254	0.226	0.246	0.257	0.252	0.204	AVRG		0.24008		8.641	15.000
2-Hexanone	0.204	0.185	0.210	0.224	0.229	0.180	AVRG		0.20531		9.635	15.000
Tetrachloroethene	0.411	0.400	0.370	0.356	0.359	0.351	AVRG		0.37459		6.699	15.000
1,1,2,2-Tetrachloroethane	0.886	0.729	0.752	0.833	0.769	0.671	AVRG		0.77356		9.871	15.000
Toluene	0.819	0.956	0.900	0.867	0.855	0.828	AVRG		0.87077		5.813	15.000
1,2-Dichloroethylene (total)							AVRG					0.000
Chlorobenzene	1.200	1.156	1.092	1.075	1.055	1.012	AVRG		1.09825		6.268	15.000
Ethylbenzene	1.980	2.062	1.921	1.904	1.886	1.773	AVRG		1.92075		5.031	15.000
Styrene	0.925	1.102	1.138	1.176	1.144	1.101	AVRG		1.09769		8.125	15.000
m+p-Xylenes	0.662	0.722	0.692	0.659	0.655	0.607	AVRG		0.66626		5.826	15.000
o-Xylene	0.559	0.643	0.659	0.649	0.649	0.617	AVRG		0.62929		5.930	15.000
Xylenes (total)							AVRG					0.000
Dibromofluoromethane	0.600	0.519	0.479	0.456	0.474	0.478	AVRG		0.50096		10.512	15.000
1,2-Dichloroethane-D4	8578	31906	138620	276470	668320	1267000	LINR	-8e-003	1.93298		0.99980	0.99000
Toluene-D8	1.329	1.310	1.200	1.119	1.174	1.151	AVRG		1.21385		7.112	15.000
P-Bromofluorobenzene	0.519	0.467	0.475	0.467	0.469	0.463	AVRG		0.47684		4.419	15.000

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-S Calibration Date(s): 11/07/03 11/07/03

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 0936 1453

Average %RSD test result.
Calculate Average %RSD: 8.793019295
Maximum Average %RSD: 15.00000000
Note: Passes Average %RSD Test.

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID: FB283 BFB Injection Date: 11/14/03

Instrument ID: GCMS-F BFB Injection Time: 0804

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.0
75	30.0 - 60.0% of mass 95	45.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	96.6
175	4.0 - 9.0% of mass 174	5.9 (6.1)1
176	95.0 - 101.0% of mass 174	92.4 (95.6)1
177	5.0 - 9.0% of mass 176	6.3 (6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050F14A	F2085	11/14/03	0835
02	WG4544-LCS	WG4544-1	F2086	11/14/03	0917
03	WG4544-BLANK	WG4544-2	F2088	11/14/03	1104
04	IR1-DSB-01-1103	WT2857-4	F2098	11/14/03	1728
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FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-F Calibration Date: 11/14/03 Time: 0835

Lab File ID: F2085 Init. Calib. Date(s): 11/13/03 11/13/03

Init. Calib. Times: 0948 1256

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Chloromethane	0.9190000	0.7351400	0.7351400	0.1	-20.01		AVRG
Bromomethane	0.3100000	0.2562700	0.2562700	0.01	-17.33		AVRG
Vinyl chloride	0.7160000	0.6159100	0.6159100	0.01	-13.98	20.00	AVRG
Chloroethane	47.889000	50.000000	0.3388300	0.01	-4.22		LINR
Methylene Chloride	34.986000	50.000000	0.5896600	0.01	-30.03		2RDR
Acetone	282.25000	250.00000	4.66e-002	0.01	12.90		2RDR
Carbon Disulfide	0.3210000	0.3037400	0.3037400	0.01	-5.38		AVRG
1,1-Dichloroethene	0.4560000	0.3986400	0.3986400	0.1	-12.58	20.00	AVRG
1,1-Dichloroethane	1.2480000	1.1764000	1.1764000	0.01	-5.74		AVRG
cis-1,2-Dichloroethene	0.5640000	0.5773800	0.5773800	0.01	2.37		AVRG
trans-1,2-Dichloroethene	0.4560000	0.3986400	0.3986400	0.01	-12.58		AVRG
Chloroform	1.1840000	1.0514000	1.0514000	0.01	-11.20	20.00	AVRG
1,2-Dichloroethane	0.4310000	0.4313200	0.4313200	0.01	0.07		AVRG
2-Butanone	5.4e-002	5.68e-002	5.68e-002	0.01	5.18		AVRG
1,1,1-Trichloroethane	0.8590000	0.8076200	0.8076200	0.01	-5.98		AVRG
Carbon Tetrachloride	0.4010000	0.4093200	0.4093200	0.01	2.07		AVRG
Bromodichloromethane	0.4660000	0.4788000	0.4788000	0.01	2.75		AVRG
1,2-Dichloropropane	0.4190000	0.4061700	0.4061700	0.01	-3.06	20.00	AVRG
cis-1,3-dichloropropene	0.4440000	0.4551100	0.4551100	0.01	2.50		AVRG
Trichloroethene	0.3570000	0.3857800	0.3857800	0.01	8.06		AVRG
Dibromochloromethane	0.3690000	0.3943100	0.3943100	0.01	6.86		AVRG
1,1,2-Trichloroethane	0.2240000	0.2343900	0.2343900	0.01	4.64		AVRG
Benzene	1.6250000	1.5820000	1.5820000	0.01	-2.65		AVRG
trans-1,3-Dichloropropene	0.4440000	0.4551100	0.4551100	0.01	2.50		AVRG
Bromoform	0.1970000	0.2189400	0.2189400	0.1	11.14		AVRG
4-methyl-2-pentanone	0.3140000	0.3218100	0.3218100	0.01	2.49		AVRG
2-Hexanone	0.2950000	0.3099200	0.3099200	0.01	5.06		AVRG
Tetrachloroethene	0.3590000	0.3698400	0.3698400	0.01	3.02		AVRG
1,1,2,2-Tetrachloroethane	0.8900000	0.8589500	0.8589500	0.3	-3.49		AVRG

Katahdin Analytical Services 1000053

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-F Calibration Date: 11/14/03 Time: 0835

Lab File ID: F2085 Init. Calib. Date(s): 11/13/03 11/13/03

Init. Calib. Times: 0948 1256

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Toluene	0.9180000	0.9324600	0.9324600	0.01	1.58	20.00	AVRG	
1,2-Dichloroethylene (total)	0.0000000	0.4880100	0.4880100	0.01	0.00		AVRG	<-
Chlorobenzene	1.1860000	1.1496000	1.1496000	0.3	-3.07		AVRG	
Ethylbenzene	2.1350000	2.0885000	2.0885000	0.01	-2.18	20.00	AVRG	
Styrene	1.2250000	1.2455000	1.2455000	0.01	1.67		AVRG	
m+p-Xylenes	0.7720000	0.7571900	0.7571900	0.01	-1.92		AVRG	
o-Xylene	0.7290000	0.7230900	0.7230900	0.01	-0.81		AVRG	
Xylenes (total)	0.0000000	0.7458200	0.7458200	0.01	0.00		AVRG	<-
Dibromofluoromethane	0.6410000	0.5050400	0.5050400	0.01	-21.21		AVRG	
1,2-Dichloroethane-D4	0.6170000	0.4756200	0.4756200	0.01	-22.91		AVRG	
Toluene-D8	1.3140000	1.1070000	1.1070000	0.01	-15.75		AVRG	
P-Bromofluorobenzene	0.4800000	0.4062100	0.4062100	0.01	-15.37		AVRG	

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID: FB285 BFB Injection Date: 11/18/03

Instrument ID: GCMS-F BFB Injection Time: 0830

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.1
75	30.0 - 60.0% of mass 95	45.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	84.2
175	4.0 - 9.0% of mass 174	6.2 (7.3)1
176	95.0 - 101.0% of mass 174	82.9 (98.4)1
177	5.0 - 9.0% of mass 176	5.8 (7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050F18A	F2120	11/18/03	0912
02	WG4629-LCS	WG4629-1	F2122	11/18/03	1056
03	WG4629-BLANK	WG4629-2	F2123	11/18/03	1142
04	G01-SB-01-1103L	WT2880-1	F2124	11/18/03	1234
05	G01-SB-05-1103M	WT2880-2	F2125	11/18/03	1312
06	IR1-DSB-05-1103	WT2857-3RA	F2128	11/18/03	1505
07	IR1-DSB-01-1103	WT2857-4RA	F2129	11/18/03	1543
08	G01-SB-19-1103H	WT2913-1	F2131	11/18/03	1658
09	KW-DUP-05-1103	WT2913-2RA	F2134	11/18/03	1851
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FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-F Calibration Date: 11/18/03 Time: 0912

Lab File ID: F2120 Init. Calib. Date(s): 11/17/03 11/17/03

Init. Calib. Times: 1124 1754

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Dichlorodifluoromethane	0.4010000	0.3750900	0.3750900	0.01	-6.46		AVRG	
Chloromethane	0.7810000	0.7049300	0.7049300	0.1	-9.74		AVRG	
Vinyl chloride	0.6430000	0.6266600	0.6266600	0.01	-2.54	20.00	AVRG	
Bromomethane	0.3040000	0.2690600	0.2690600	0.01	-11.49		AVRG	
Chloroethane	49.474000	50.000000	0.3361000	0.01	-1.05		2RDR	
Trichlorofluoromethane	0.7800000	0.7375600	0.7375600	0.01	-5.44		AVRG	
Diethyl Ether	0.3720000	0.3212100	0.3212100	0.01	-13.65		AVRG	
Tertiary-butyl alcohol	237.10000	250.00000	0.3604500	0.01	-5.16		2RDR	
1,1-Dichloroethene	0.4770000	0.4298400	0.4298400	0.1	-9.89	20.00	AVRG	
Carbon Disulfide	1.8810000	1.6823000	1.6823000	0.01	-10.56		AVRG	
Freon-113	0.4260000	0.3830800	0.3830800	0.01	-10.08		AVRG	
Iodomethane	43.341000	50.000000	0.5770400	0.01	-13.32		2RDR	
Acrolein	251.96000	250.00000	4.57e-002	0.01	0.78		2RDR	
Methylene Chloride	51.528000	50.000000	0.5696200	0.01	3.06		2RDR	
Acetone	264.33000	250.00000	3.68e-002	0.01	5.73		2RDR	
Isobutyl Alcohol	846.18000	1000.0000	1.33e-002	0.01	-15.38		2RDR	
trans-1,2-Dichloroethene	0.4770000	0.4298400	0.4298400	0.01	-9.89		AVRG	
Allyl Chloride	51.415000	50.000000	0.7748500	0.01	2.83		2RDR	
Methyl tert-butyl ether	96.410000	100.00000	1.4184000	0.01	-3.59		LINR	
Acetonitrile	491.55000	500.00000	5.88e-002	0.01	-1.69		2RDR	
Di-isopropyl ether	2.5760000	2.1974000	2.1974000	0.01	-14.70		AVRG	
Hexane	0.0000000			0.01	0.00		AVRG	<-
Chloroprene	1.0520000	0.9544400	0.9544400	0.01	-9.27		AVRG	
Methacrylonitrile	444.59000	500.00000	0.2591600	0.01	-11.08		LINR	
Propionitrile	427.31000	500.00000	4.56e-002	0.01	-14.54		LINR	
1,1-Dichloroethane	1.3000000	1.1919000	1.1919000	0.01	-8.32		AVRG	
Acrylonitrile	237.71000	250.00000	0.1070000	0.01	-4.92		2RDR	
Ethyl tertiary-butyl ether	2.1010000	1.8023000	1.8023000	0.01	-14.22		AVRG	
Vinyl Acetate	0.7280000	0.6928700	0.6928700	0.01	-4.82		AVRG	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-F Calibration Date: 11/18/03 Time: 0912

Lab File ID: F2120 Init. Calib. Date(s): 11/17/03 11/17/03

Init. Calib. Times: 1124 1754

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
cis-1,2-Dichloroethene	0.6370000	0.5302600	0.5302600	0.01	-16.76		AVRG	
1,2-Dichloroethylene (total)	0.0000000	0.4800600	0.4800600	0.01	0.00		AVRG	<-
Methyl Methacrylate	0.2550000	0.2424700	0.2424700	0.01	-4.91		AVRG	
2,2-Dichloropropane	1.0060000	0.9526100	0.9526100	0.01	-5.31		AVRG	
Bromochloromethane	0.2950000	0.2751600	0.2751600	0.01	-6.72		AVRG	
Chloroform	1.2350000	1.0918000	1.0918000	0.01	-11.60	20.00	AVRG	
Carbon Tetrachloride	0.4930000	0.4668000	0.4668000	0.01	-5.31		AVRG	
Tetrahydrofuran	227.41000	250.00000	0.1170900	0.01	-9.04		LINR	
1,1,1-Trichloroethane	0.9440000	0.8891900	0.8891900	0.01	-5.81		AVRG	
1,1-Dichloropropene	0.6320000	0.6077400	0.6077400	0.01	-3.84		AVRG	
2-Butanone	5.1e-002	5.01e-002	5.01e-002	0.01	-1.76		AVRG	
Benzene	1.9090000	1.7544000	1.7544000	0.01	-8.10		AVRG	
Cyclohexane	1.2000000	1.1052000	1.1052000	0.01	-7.90		AVRG	
Ethyl Methacrylate	0.4320000	0.3907100	0.3907100	0.01	-9.56		AVRG	
Methyl Acrylate	0.0000000	0.5816400	0.5816400	0.01	0.00		AVRG	<-
Tertiary-amyl methyl ether	1.7340000	1.4873000	1.4873000	0.01	-14.23		AVRG	
1,2-Dichloroethane	0.4920000	0.4590200	0.4590200	0.01	-6.70		AVRG	
Trichloroethene	0.4430000	0.4357000	0.4357000	0.01	-1.65		AVRG	
Dibromomethane	0.2120000	0.1969100	0.1969100	0.01	-7.12		AVRG	
1,2-Dichloropropane	0.4550000	0.4170000	0.4170000	0.01	-8.35	20.00	AVRG	
Bromodichloromethane	0.5610000	0.5166400	0.5166400	0.01	-7.91		AVRG	
cis-1,3-dichloropropene	0.5230000	0.5041100	0.5041100	0.01	-3.61		AVRG	
1-Chlorohexane	0.0000000	1.67e-003	1.67e-003	0.01	0.00		AVRG	<-
1,4-Dioxane	0.0000000	2.66e-003	2.66e-003	0.01	0.00		AVRG	<-
2-Chloroethylvinylether	0.0000000	7.64e-002	7.64e-002	0.01	0.00		AVRG	<-
Toluene	1.1300000	1.0183000	1.0183000	0.01	-9.88	20.00	AVRG	
4-methyl-2-pentanone	0.3020000	0.2843900	0.2843900	0.01	-5.83		AVRG	
Tetrachloroethene	0.4790000	0.4309200	0.4309200	0.01	-10.04		AVRG	
trans-1,3-Dichloropropene	0.5230000	0.5041100	0.5041100	0.01	-3.61		AVRG	

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID: FB284 BFB Injection Date: 11/17/03

Instrument ID: GCMS-F BFB Injection Time: 0901

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	40.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	97.4
175	4.0 - 9.0% of mass 174	6.2 (6.4)1
176	95.0 - 101.0% of mass 174	95.2 (97.7)1
177	5.0 - 9.0% of mass 176	6.2 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD020F17A	F2107	11/17/03	1330
02		VSTD010F17A	F2108	11/17/03	1408
03		VSTD005F17A	F2109	11/17/03	1446
04		VSTD200F17A	F2110	11/17/03	1524
05		VSTD050F17E	F2112	11/17/03	1639
06		VSTD100F17B	F2114	11/17/03	1754
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FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-F Calibration Date: 11/18/03 Time: 0912

Lab File ID: F2120 Init. Calib. Date(s): 11/17/03 11/17/03

Init. Calib. Times: 1124 1754

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
1,1,2-Trichloroethane	0.2570000	0.2373700	0.2373700	0.01	-7.64		AVRG	
Dibromochloromethane	0.4550000	0.4271700	0.4271700	0.01	-6.12		AVRG	
1,3-Dichloropropane	0.7120000	0.6500200	0.6500200	0.01	-8.70		AVRG	
1,2-Dibromoethane	0.2920000	0.2700300	0.2700300	0.01	-7.52		AVRG	
2-Hexanone	0.2880000	0.2576900	0.2576900	0.01	-10.52		AVRG	
Chlorobenzene	1.3960000	1.2435000	1.2435000	0.3	-10.92		AVRG	
Ethylbenzene	2.5140000	2.2812000	2.2812000	0.01	-9.26	20.00	AVRG	
1,1,1,2-Tetrachloroethane	0.4950000	0.4530900	0.4530900	0.01	-8.47		AVRG	
Xylenes (total)	0.0000000	0.8043700	0.8043700	0.01	0.00		AVRG	<-
m+p-Xylenes	0.9120000	0.8196400	0.8196400	0.01	-10.13		AVRG	
o-Xylene	0.8770000	0.7738300	0.7738300	0.01	-11.76		AVRG	
Styrene	1.4720000	1.3240000	1.3240000	0.01	-10.05		AVRG	
Bromoform	0.2560000	0.2397600	0.2397600	0.1	-6.34		AVRG	
Isopropylbenzene	5.1020000	4.5347000	4.5347000	0.01	-11.12		AVRG	
cis-1,4-Dichloro-2-Butene	0.3310000	0.2924400	0.2924400	0.01	-11.65		AVRG	
trans-1,4-Dichloro-2-Butene	0.2910000	0.2849200	0.2849200	0.01	-2.09		AVRG	
Bromobenzene	1.3310000	1.1595000	1.1595000	0.01	-12.88		AVRG	
N-Propylbenzene	6.3720000	5.6623000	5.6623000	0.01	-11.14		AVRG	
2-bromo-1-chloropropane	0.0000000	0.1823000	0.1823000	0.01	0.00		AVRG	<-
1,1,2,2-Tetrachloroethane	0.9570000	0.8647700	0.8647700	0.3	-9.64		AVRG	
1,3,5-Trimethylbenzene	4.0180000	3.5607000	3.5607000	0.01	-11.38		AVRG	
2-Chlorotoluene	4.1890000	3.7010000	3.7010000	0.01	-11.65		AVRG	
1,2,3-Trichloropropane	47.147000	50.000000	0.6875200	0.01	-5.71		LINR	
4-Chlorotoluene	3.7550000	3.2471000	3.2471000	0.01	-13.53		AVRG	
tert-Butylbenzene	4.4830000	3.9743000	3.9743000	0.01	-11.35		AVRG	
Pentachloroethane	0.8720000	0.7805300	0.7805300	0.01	-10.49		AVRG	
1,2,4-Trimethylbenzene	4.0400000	3.5570000	3.5570000	0.01	-11.96		AVRG	
P-Isopropyltoluene	4.0780000	3.5942000	3.5942000	0.01	-11.86		AVRG	
1,3-Dichlorobenzene	2.1540000	1.8487000	1.8487000	0.01	-14.17		AVRG	

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-F Calibration Date: 11/18/03 Time: 0912

Lab File ID: F2120 Init. Calib. Date(s): 11/17/03 11/17/03

Init. Calib. Times: 1124 1754

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,4-Dichlorobenzene	2.0650000	1.8244000	1.8244000	0.01	-11.65		AVRG
N-Butylbenzene	3.7910000	3.3595000	3.3595000	0.01	-11.38		AVRG
sec-Butylbenzene	5.2390000	4.6018000	4.6018000	0.01	-12.16		AVRG
1,2-Dichlorobenzene	1.7730000	1.5655000	1.5655000	0.01	-11.70		AVRG
1,2-Dibromo-3-Chloropropane	47.708000	50.000000	0.2208500	0.01	-4.58		LINR
1,3,5-Trichlorobenzene	50.056000	50.000000	0.4056600	0.01	0.11		LINR
Hexachlorobutadiene	53.703000	50.000000	0.3519900	0.01	7.41		LINR
1,2,4-Trichlorobenzene	55.994000	50.000000	0.4063300	0.01	11.99		2RDR
1,2,3-Trimethylbenzene	48.122000	50.000000	1.5225000	0.01	-3.76		LINR
Naphthalene	52.959000	50.000000	0.6109000	0.01	5.92		2RDR
1,2,3-Trichlorobenzene	62.619000	50.000000	0.1782000	0.01	25.24		2RDR
Methyl Acetate	0.3780000	0.2751700	0.2751700	0.01	-27.20		AVRG
Methylcyclohexane	1.0920000	1.0183000	1.0183000	0.01	-6.75		AVRG
Dibromofluoromethane	0.6600000	0.4470400	0.4470400	0.01	-32.27		AVRG
1,2-Dichloroethane-D4	35.775000	50.000000	0.4041100	0.01	-28.45		LINR
Toluene-D8	37.876000	50.000000	1.0471000	0.01	-24.25		LINR
P-Bromofluorobenzene	37.281000	50.000000	0.3719600	0.01	-25.44		LINR

Katahdin Analytical Services 1000058

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID: SB539 BFB Injection Date: 11/18/03

Instrument ID: GCMS-S BFB Injection Time: 0729

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.6
75	30.0 - 60.0% of mass 95	45.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	112.5
175	4.0 - 9.0% of mass 174	8.5 (7.5)1
176	95.0 - 101.0% of mass 174	111.1 (98.7)1
177	5.0 - 9.0% of mass 176	6.1 (5.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050S18A	S8956	11/18/03	0754
02	WG4630-LCS	WG4630-1	S8957	11/18/03	0833
03	WG4630-BLANK	WG4630-2	S8959	11/18/03	0948
04	KWTB-111203	WT2857-5	S8962	11/18/03	1138
05					
06					
07					
08					
09					
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12					
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17					
18					
19					
20					
21					
22					

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-S Calibration Date: 11/18/03 Time: 0754

Lab File ID: S8956 Init. Calib. Date(s): 11/07/03 11/07/03

Init. Calib. Times: 0936 1453

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Chloromethane	0.4790000	0.3592400	0.3592400	0.1	-25.00		AVRG
Bromomethane	37.484000	50.000000	0.1664900	0.01	-25.03		LINR
Vinyl chloride	0.4870000	0.4035100	0.4035100	0.01	-17.14	20.00	AVRG
Chloroethane	51.787000	50.000000	0.3022800	0.01	3.57		LINR
Methylene Chloride	54.866000	50.000000	0.5452200	0.01	9.73		LINR
Acetone	187.56000	250.00000	3.34e-002	0.01	-24.98		2RDR
Carbon Disulfide	1.6750000	1.5926000	1.5926000	0.01	-4.92		AVRG
1,1-Dichloroethene	0.4030000	0.3886200	0.3886200	0.01	-3.57	20.00	AVRG
1,1-Dichloroethane	0.8470000	0.8632800	0.8632800	0.1	1.92		AVRG
cis-1,2-Dichloroethene	0.5300000	0.5340600	0.5340600	0.01	0.77		AVRG
trans-1,2-Dichloroethene	0.4980000	0.4926500	0.4926500	0.01	-1.07		AVRG
Chloroform	0.9540000	0.9562400	0.9562400	0.01	0.23	20.00	AVRG
1,2-Dichloroethane	0.4740000	0.5283200	0.5283200	0.01	11.46		AVRG
2-Butanone	5.e-002	4.21e-002	4.21e-002	0.01	-15.80		AVRG
1,1,1-Trichloroethane	0.7140000	0.7423600	0.7423600	0.01	3.97		AVRG
Carbon Tetrachloride	0.4200000	0.4457400	0.4457400	0.01	6.13		AVRG
Bromodichloromethane	0.5020000	0.5420800	0.5420800	0.01	7.98		AVRG
1,2-Dichloropropane	0.3300000	0.3446700	0.3446700	0.01	4.44	20.00	AVRG
cis-1,3-dichloropropene	0.5860000	0.6436600	0.6436600	0.01	9.84		AVRG
Trichloroethene	0.3820000	0.3785600	0.3785600	0.01	-0.90		AVRG
Dibromochloromethane	0.4010000	0.4111200	0.4111200	0.01	2.52		AVRG
1,1,2-Trichloroethane	0.2600000	0.2609300	0.2609300	0.01	0.36		AVRG
Benzene	1.4680000	1.4817000	1.4817000	0.01	0.93		AVRG
trans-1,3-Dichloropropene	0.4860000	0.5230900	0.5230900	0.01	7.63		AVRG
Bromoform	0.2680000	0.2639800	0.2639800	0.1	-1.50		AVRG
4-methyl-2-pentanone	0.2400000	0.2064300	0.2064300	0.01	-13.99		AVRG
2-Hexanone	0.2050000	0.1599500	0.1599500	0.01	-21.98		AVRG
Tetrachloroethene	0.3740000	0.3500100	0.3500100	0.01	-6.41		AVRG
1,1,2,2-Tetrachloroethane	0.7730000	0.7228800	0.7228800	0.3	-6.48		AVRG

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-S Calibration Date: 11/18/03 Time: 0754

Lab File ID: S8956 Init. Calib. Date(s): 11/07/03 11/07/03

Init. Calib. Times: 0936 1453

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Toluene	0.8710000	0.9064800	0.9064800	0.01	4.07	20.00	AVRG	
1,2-Dichloroethylene (total)	0.0000000	1.0267000	1.0267000	0.01	0.00		AVRG	<-
Chlorobenzene	1.0980000	1.0832000	1.0832000	0.3	-1.35		AVRG	
Ethylbenzene	1.9210000	1.8962000	1.8962000	0.01	-1.29	20.00	AVRG	
Styrene	1.0980000	1.1620000	1.1620000	0.01	5.83		AVRG	
m+p-Xylenes	0.6660000	0.6744600	0.6744600	0.01	1.27		AVRG	
o-Xylene	0.6290000	0.6515600	0.6515600	0.01	3.59		AVRG	
Xylenes (total)	0.0000000	2.0005000	2.0005000	0.01	0.00		AVRG	<-
Dibromofluoromethane	0.5010000	0.4708200	0.4708200	0.01	-6.02		AVRG	
1,2-Dichloroethane-D4	50.790000	50.000000	0.5297000	0.01	1.58		LINR	
Toluene-D8	1.2140000	1.1573000	1.1573000	0.01	-4.67		AVRG	
P-Bromofluorobenzene	0.4770000	0.4704600	0.4704600	0.01	-1.37		AVRG	

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID (Standard): F2085 Date Analyzed: 11/14/03

Instrument ID: GCMS-F Time Analyzed: 0835

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

			IS1(PFB) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD		449637	9.03	699674	9.75	561356	12.94
	UPPER LIMIT		899274	9.53	1399348	10.25	1122712	13.44
	LOWER LIMIT		224819	8.53	349837	9.25	280678	12.44
	CLIENT SAMPLE ID	LAB SAMPLE ID						
01	WG4544-LCS	WG4544-1	469198	9.07	736789	9.77	570350	12.95
02	WG4544-BLANK	WG4544-2	433484	9.04	688198	9.76	559967	12.94
03	IR1-DSB-01-1103	WT2857-4	413516	9.05	595966	9.77	375455	12.95
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-D5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID (Standard): F2085 Date Analyzed: 11/14/03

Instrument ID: GCMS-F Time Analyzed: 0835

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

		IS4 (DCB) AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
12 HOUR STD		236900		14.68									
UPPER LIMIT		473800		15.18									
LOWER LIMIT		118450		14.18									
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	WG4544-LCS	WG4544-1		240577		14.68							
02	WG4544-BLANK	WG4544-2		226488		14.68							
03	IR1-DSB-01-1103	WT2857-4		83226	*	14.69							
04													
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS4 (DCB) = 1,4-Dichlorobenzene-D4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID (Standard): F2120 Date Analyzed: 11/18/03

Instrument ID: GCMS-F Time Analyzed: 0912

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

		IS1(PFB) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR STD		451031	9.01	672987	9.73	542358	12.92
UPPER LIMIT		902062	9.51	1345974	10.23	1084716	13.42
LOWER LIMIT		225516	8.51	336494	9.23	271179	12.42
	CLIENT SAMPLE ID / LAB SAMPLE ID						
01	WG4629-LCS / WG4629-1	429804	8.99	651936	9.72	531241	12.91
02	WG4629-BLANK / WG4629-2	439029	9.00	671927	9.72	565982	12.92
03	G01-SB-01-1103L / WT2880-1	426847	8.99	655253	9.72	539666	12.92
04	G01-SB-05-1103M / WT2880-2	412685	9.00	634936	9.73	526903	12.92
05	IR1-DSB-05-1103 / WT2857-3RA	402868	9.00	615880	9.72	476608	12.92
06	IR1-DSB-01-1103 / WT2857-4RA	382554	9.00	567060	9.73	373841	12.92
07	G01-SB-19-1103H / WT2913-1	417862	9.01	633907	9.73	510481	12.92
08	KW-DUP-05-1103 / WT2913-2RA	377644	8.98	593014	9.71	482684	12.92
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-D5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID (Standard): F2120 Date Analyzed: 11/18/03

Instrument ID: GCMS-F Time Analyzed: 0912

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

		IS4 (DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		234339	14.66				
UPPER LIMIT		468678	15.16				
LOWER LIMIT		117170	14.16				
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	WG4629-LCS	WG4629-1	237998	14.66				
02	WG4629-BLANK	WG4629-2	235681	14.66				
03	G01-SB-01-1103L	WT2880-1	200972	14.66				
04	G01-SB-05-1103M	WT2880-2	218856	14.66				
05	IR1-DSB-05-1103	WT2857-3RA	166181	14.66				
06	IR1-DSB-01-1103	WT2857-4RA	96860*	14.66				
07	G01-SB-19-1103H	WT2913-1	193324	14.66				
08	KW-DUP-05-1103	WT2913-2RA	196935	14.66				
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS4 (DCB) = 1,4-Dichlorobenzene-D4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

KATAHDIN ANALYTICAL SERVICES, INC.
GC Vial Prep Log

Method: MA DEP VPH
Reviewed By/Date:

5 ml DI H2O + Stir Bar

LOGBOOK # 1

40 ml Vial # 101603

Date	Time	[illegible] Number	[illegible]	[illegible]	[illegible]	Sample Weight (g)	Comments
11/6/03	CRg	12371		30.81			
		12372		30.84	35.98	5.14 ✓	WT2880-2
		12373		30.86			
		12374		30.77	35.03	4.26 ✓	WT2857-4 RA
		12375		30.99			
		12376		30.82	36.80	5.98	WT2781-13RA
		12377		31.20			
		12378		30.87			
		12379		30.87	35.85	4.98 ✓	WT2857-3RA
		12380		30.83	35.52	4.69 ✓	WT2880-1
		12381		30.81			
		12382		30.90			
		12383		30.82			
		12384		30.96			
		12385		30.59			
		12386		30.79	34.92	4.13	WT2913-2
		12387		30.71	35.55	4.84 ✓	WT2913-2 RA
		12388		30.92			
		12389		30.84			
		12390		30.85			
		12391		30.76			
		12392		~~30.94~~ CRg 30.94	35.31	4.37	WT2913-1RA
		12393		30.67	35.12	4.45 ✓	WT2913-1
		12394		30.73			

CRg
11-6-03

KATAHDIN ANALYTICAL SERVICES, INC.
GC Vial Prep Log

5ml DI H2O + Stir Bar

Method: MA DEP VPH
Reviewed By/Date:

LOGBOOK # 1

40ml Vial #050203

Date	Tech	Vial Number	Vial Weight Empty (g)	Vial Weight Empty (g)	Vial Weight Sample (g)	Sample Weight (g)	Comments
10/24/05	CRJ	12153		30.97			
		12154		30.98			
		12155		30.98	36.67	5.69	WT2820-3
		12156		31.25			
		12157		31.30			
		12158		31.12			
		12159		31.14			
		12160		31.11	37.14	6.03	WT2781-20
		12161		31.36	38.02	6.66	WT2781-24
		12162		31.10			
		12163		31.00	36.52	5.52	WT2781-13MS
		12164		31.06			
		12165		31.00			
		12166		30.99			
		12167		31.22			
		12168		30.97			
		12169		31.29	35.55	4.26	WT2798-4
		12170		31.27	39.50	8.23	WT2798-1
		12171		30.98			
		12172		30.99			
		12173		31.07			
		12174		30.89	36.48	5.59	WT2781-13MSD
		12175		31.05			
		12176		31.04	34.95	3.91 ✓	WT2857-4
		12177		31.04	35.85	4.81	WT2857-3
		12178		30.82	35.78	4.96	WT2821-11
		12179		30.94			
		12180		31.33			
		12181		31.03			
		12182		31.13			

FORM 2
SOIL SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297-318 NAS KEY WEST SDG No.: CTO318-2

Level: (low/med) LOW

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 NBZ#	S2 FBP#	S3 TPH#	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	WG4589-BLANK	WG4589-1	73	78	106						0
02	WG4589-LCS	WG4589-2	80	83	105						0
03	G01-SB-05-1103M	WT2880-2	86	94	112						0
04	G01-SB-01-1103L	WT2880-1	77	94	120						1
05	WG4689-BLANK	WG4689-1	77	85	89						0
06	WG4689-LCS	WG4689-2	80	87	98						0
07	WG4689-LCSD	WG4689-3	76	84	93						0
08	G01-SB-19-1103H	WT2913-1	58	69	77						0
09	KW-DUP-05-1103	WT2913-2	60	75	88						0
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

	QC LIMITS
S1 (NBZ) = Nitrobenzene-D5	(14-107)
S2 (FBP) = 2-Fluorobiphenyl	(32-109)
S3 (TPH) = Terphenyl-D14	(26-116)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 2
SOIL SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297-318 NAS KEY WEST SDG No.: CTO318-2

Level: (low/med) LOW

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 2FP#	S2 PHL#	S3 NBZ#	S4 FBP#	S5 TBP#	S6 TPH#	S7 #	S8 #	TOT OUT
01	WG4541-BLANK	WG4541-1	97	94	88	98	98	131*			1
02	WG4541-LCS	WG4541-2	89	87	83	92	105	113			0
03	WG4541-LCSD	WG4541-3	81	79	75	85	97	102			0
04	IR1-CSS-01-1103	WT2857-1	75	72	69	80	82	105			0
05	IR1-CSS-02-1103	WT2857-2	75	76	72	87	90	111			0
06											
07											
08											
09											
10											
11											
12											
13											
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25											
26											
27											
28											

		QC LIMITS
S1 (2FP)	= 2-Fluorophenol	(15-106)
S2 (PHL)	= Phenol-D6	(30-105)
S3 (NBZ)	= Nitrobenzene-D5	(14-107)
S4 (FBP)	= 2-Fluorobiphenyl	(32-109)
S5 (TBP)	= 2,4,6-Tribromophenol	(16-115)
S6 (TPH)	= Terphenyl-D14	(26-116)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG4541-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297-318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID: U5416 Lab Sample ID: WG4541-1

Instrument ID: GCMS-U Date Extracted: 11/14/03

Matrix: (soil/water) SOIL Date Analyzed: 11/22/03

Level:(low/med) LOW Time Analyzed: 0802

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG4541-LCS	WG4541-2	U5417	11/22/03	0846
02	WG4541-LCSD	WG4541-3	U5418	11/22/03	0929
03	IR1-CSS-01-1103	WT2857-1	U5438	11/24/03	1612
04	IR1-CSS-02-1103	WT2857-2	U5439	11/24/03	1656
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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27					
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29					
30					

COMMENTS:

FORM IV SV

Katahdin Analytical Services 2000005

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG4589-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297-318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID: U5372 Lab Sample ID: WG4589-1

Instrument ID: GCMS-U Date Extracted: 11/17/03

Matrix: (soil/water) SOIL Date Analyzed: 11/18/03

Level: (low/med) LOW Time Analyzed: 1536

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG4589-LCS	WG4589-2	U5373	11/18/03	1620
02	G01-SB-05-1103M	WT2880-2	U5405	11/21/03	1233
03	G01-SB-01-1103L	WT2880-1	U5406	11/21/03	1318
04					
05					
06					
07					
08					
09					
10					
11					
12					
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29					
30					

COMMENTS:

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG4689-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297-318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID: U5451 Lab Sample ID: WG4689-1

Instrument ID: GCMS-U Date Extracted: 11/20/03

Matrix: (soil/water) SOIL Date Analyzed: 11/25/03

Level:(low/med) LOW Time Analyzed: 1112

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG4689-LCS	WG4689-2	U5452	11/25/03	1157
02	WG4689-LCSD	WG4689-3	U5453	11/25/03	1242
03	G01-SB-19-1103H	WT2913-1	U5454	11/25/03	1326
04	KW-DUP-05-1103	WT2913-2	U5455	11/25/03	1412
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
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27					
28					
29					
30					

COMMENTS:

Katahdin Analytical Services 2000007

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297-318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/14/03
Analysis Date: 11/22/03
Report Date: 11/25/2003
Matrix: SOIL
% Solids: 100

Lab ID: WG4541-1
Client ID: WG4541-Blank
SDG: CTO318-2
Extracted by: LS
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG4541
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	330	1.0	330	330	23
111-44-4	Bis(2-Chloroethyl)ether	U	330	1.0	330	330	18
95-57-8	2-Chlorophenol	U	330	1.0	330	330	22
541-73-1	1,3-Dichlorobenzene	U	330	1.0	330	330	12
106-46-7	1,4-Dichlorobenzene	U	330	1.0	330	330	12
95-50-1	1,2-Dichlorobenzene	U	330	1.0	330	330	12
95-48-7	2-Methylphenol	U	330	1.0	330	330	20
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	330	1.0	330	330	16
106-44-5	4-Methylphenol	U	330	1.0	330	330	19
621-64-7	N-Nitroso-di-n-propylamine	U	330	1.0	330	330	15
67-72-1	Hexachloroethane	U	330	1.0	330	330	11
98-95-3	Nitrobenzene	U	330	1.0	330	330	16
78-59-1	Isophorone	U	330	1.0	330	330	9
88-75-5	2-Nitrophenol	U	330	1.0	330	330	27
105-67-9	2,4-Dimethylphenol	U	330	1.0	330	330	40
111-91-1	Bis(2-Chloroethoxy)methane	U	330	1.0	330	330	15
120-83-2	2,4-Dichlorophenol	U	330	1.0	330	330	22
120-82-1	1,2,4-Trichlorobenzene	U	330	1.0	330	330	12
91-20-3	Naphthalene	U	330	1.0	330	330	11
106-47-8	4-Chloroaniline	U	330	1.0	330	330	11
87-68-3	Hexachlorobutadiene	U	330	1.0	330	330	12
59-50-7	4-Chloro-3-Methylphenol	U	330	1.0	330	330	30
91-57-6	2-Methylnaphthalene	U	330	1.0	330	330	14
77-47-4	Hexachlorocyclopentadiene	U	330	1.0	330	330	12
88-06-2	2,4,6-Trichlorophenol	U	330	1.0	330	330	31
95-95-4	2,4,5-Trichlorophenol	U	820	1.0	820	820	28
91-58-7	2-Chloronaphthalene	U	330	1.0	330	330	15
88-74-4	2-Nitroaniline	U	820	1.0	820	820	14
131-11-3	Dimethyl Phthalate	U	330	1.0	330	330	15
208-96-8	Acenaphthylene	U	330	1.0	330	330	12
606-20-2	2,6-Dinitrotoluene	U	330	1.0	330	330	13
99-09-2	3-Nitroaniline	U	820	1.0	820	820	47
83-32-9	Acenaphthene	U	330	1.0	330	330	16
51-28-5	2,4-Dinitrophenol	U	820	1.0	820	820	85
100-02-7	4-Nitrophenol	U	820	1.0	820	820	69
132-64-9	Dibenzofuran	U	330	1.0	330	330	11
121-14-2	2,4-Dinitrotoluene	U	330	1.0	330	330	11
84-66-2	Diethylphthalate	U	330	1.0	330	330	14
7005-72-3	4-Chlorophenyl-phenylether	U	330	1.0	330	330	17
86-73-7	Fluorene	U	330	1.0	330	330	16
100-01-6	4-Nitroaniline	U	820	1.0	820	820	55
534-52-1	4,6-Dinitro-2-Methylphenol	U	820	1.0	820	820	72
86-30-6	N-Nitrosodiphenylamine	U	330	1.0	330	330	31

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297-318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/14/03
Analysis Date: 11/22/03
Report Date: 11/25/2003
Matrix: SOIL
% Solids: 100

Lab ID: WG4541-1
Client ID: WG4541-Blank
SDG: CTO318-2
Extracted by: LS
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG4541
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	330	1.0	330	330	16
118-74-1	Hexachlorobenzene	U	330	1.0	330	330	20
87-86-5	Pentachlorophenol	U	820	1.0	820	820	63
85-01-8	Phenanthrene	U	330	1.0	330	330	16
120-12-7	Anthracene	U	330	1.0	330	330	14
86-74-8	Carbazole	U	330	1.0	330	330	20
84-74-2	Di-n-butylphthalate	U	330	1.0	330	330	68
206-44-0	Fluoranthene	U	330	1.0	330	330	18
129-00-0	Pyrene	U	330	1.0	330	330	26
85-68-7	Butylbenzylphthalate	U	330	1.0	330	330	22
91-94-1	3,3'-Dichlorobenzidine	U	330	1.0	330	330	64
56-55-3	Benzo(a)anthracene	U	330	1.0	330	330	16
218-01-9	Chrysene	U	330	1.0	330	330	18
117-81-7	bis(2-Ethylhexyl)phthalate	J	36	1.0	330	330	26
117-84-0	Di-n-octylphthalate	U	330	1.0	330	330	17
205-99-2	Benzo(b)fluoranthene	U	330	1.0	330	330	12
207-08-9	Benzo(k)fluoranthene	U	330	1.0	330	330	21
50-32-8	Benzo(a)pyrene	U	330	1.0	330	330	17
193-39-5	Indeno(1,2,3-cd)pyrene	U	330	1.0	330	330	20
53-70-3	Dibenzo(a,h)anthracene	U	330	1.0	330	330	21
191-24-2	Benzo(g,h,i)perylene	U	330	1.0	330	330	22
367-12-4	2-Fluorophenol		97%				
13127-88-3	Phenol-D6		94%				
4165-60-0	Nitrobenzene-D5		88%				
321-60-8	2-Fluorobiphenyl		98%				
118-79-6	2,4,6-Tribromophenol		98%				
1718-51-0	Terphenyl-D14		*131%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297-318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/17/03
Analysis Date: 11/18/03
Report Date: 11/25/2003
Matrix: SOIL
% Solids: 100

Lab ID: WG4589-1
Client ID: WG4589-Blank
SDG: CTO318-2
Extracted by: LS
Extraction Method: SW846 3540
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG4589
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj MDL
91-20-3	Naphthalene	U	330	1.0	330	330	11
91-57-6	2-Methylnaphthalene	U	330	1.0	330	330	14
90-12-0	1-Methylnaphthalene	U	330	1.0	330	330	14
208-96-8	Acenaphthylene	U	330	1.0	330	330	12
83-32-9	Acenaphthene	U	330	1.0	330	330	16
86-73-7	Fluorene	U	330	1.0	330	330	16
85-01-8	Phenanthrene	U	330	1.0	330	330	16
120-12-7	Anthracene	U	330	1.0	330	330	14
206-44-0	Fluoranthene	U	330	1.0	330	330	18
129-00-0	Pyrene	U	330	1.0	330	330	26
56-55-3	Benzo(a)anthracene	U	330	1.0	330	330	16
218-01-9	Chrysene	U	330	1.0	330	330	18
205-99-2	Benzo(b)fluoranthene	U	330	1.0	330	330	12
207-08-9	Benzo(k)fluoranthene	U	330	1.0	330	330	21
50-32-8	Benzo(a)pyrene	U	330	1.0	330	330	17
193-39-5	Indeno(1,2,3-cd)pyrene	U	330	1.0	330	330	20
53-70-3	Dibenzo(a,h)anthracene	U	330	1.0	330	330	21
191-24-2	Benzo(g,h,i)perylene	U	330	1.0	330	330	22
4165-60-0	Nitrobenzene-D5		73%				
321-60-8	2-Fluorobiphenyl		78%				
1718-51-0	Terphenyl-D14		106%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297-318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/20/03
Analysis Date: 11/25/03
Report Date: 11/25/2003
Matrix: SOIL
% Solids: 100

Lab ID: WG4689-1
Client ID: WG4689-Blank
SDG: CTO318-2
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG4689
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	330	1.0	330	330	11
91-57-6	2-Methylnaphthalene	U	330	1.0	330	330	14
90-12-0	1-Methylnaphthalene	U	330	1.0	330	330	14
208-96-8	Acenaphthylene	U	330	1.0	330	330	12
83-32-9	Acenaphthene	U	330	1.0	330	330	16
86-73-7	Fluorene	U	330	1.0	330	330	16
85-01-8	Phenanthrene	U	330	1.0	330	330	16
120-12-7	Anthracene	U	330	1.0	330	330	14
206-44-0	Fluoranthene	U	330	1.0	330	330	18
129-00-0	Pyrene	U	330	1.0	330	330	26
56-55-3	Benzo(a)anthracene	U	330	1.0	330	330	16
218-01-9	Chrysene	U	330	1.0	330	330	18
205-99-2	Benzo(b)fluoranthene	U	330	1.0	330	330	12
207-08-9	Benzo(k)fluoranthene	U	330	1.0	330	330	21
50-32-8	Benzo(a)pyrene	U	330	1.0	330	330	17
193-39-5	Indeno(1,2,3-cd)pyrene	U	330	1.0	330	330	20
53-70-3	Dibenzo(a,h)anthracene	U	330	1.0	330	330	21
191-24-2	Benzo(g,h,i)perylene	U	330	1.0	330	330	22
4165-60-0	Nitrobenzene-D5		77%				
321-60-8	2-Fluorobiphenyl		85%				
1718-51-0	Terphenyl-D14		89%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297-318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/14/03
Analysis Date: 11/22/03
Report Date: 11/25/2003
Matrix: SOIL

Lab ID: WG4541-2 & WG4541-3
Client ID: WG4541-LCS & WG4541-LCSD
SDG: CTO318-2
Extracted by: LS
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG4541
Units: ug/Kg

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Phenol	3333	3333	NA	2860	2630	86	79	8	30	12-126
Bis(2-Chloroethyl)ether	1667	1667	NA	1540	1380	92	83	11	30	52-115
2-Chlorophenol	3333	3333	NA	2850	2580	86	77	10	30	46-114
1,3-Dichlorobenzene	1667	1667	NA	1350	1220	81	73	10	30	40- 99
1,4-Dichlorobenzene	1667	1667	NA	1420	1270	85	76	11	30	40- 99
1,2-Dichlorobenzene	1667	1667	NA	1430	1290	86	77	10	30	44-101
2-Methylphenol	3333	3333	NA	2900	2640	87	79	9	30	50-110
2,2'-Oxybis(1-Chloropropane)	1667	1667	NA	1460	1320	88	79	10	30	54-114
4-Methylphenol	3333	3333	NA	2990	2710	90	81	10	30	46-119
N-Nitroso-di-n-propylamine	1667	1667	NA	1400	1290	84	77	8	30	52-108
Hexachloroethane	1667	1667	NA	1340	1220	80	73	9	30	30- 99
Nitrobenzene	1667	1667	NA	1430	1300	86	78	10	30	49-113
Isophorone	1667	1667	NA	1340	1220	80	73	9	30	49-106
2-Nitrophenol	3333	3333	NA	3020	2710	91	81	11	30	47-121
2,4-Dimethylphenol	3333	3333	NA	3020	2700	91	81	11	30	45-107
Bis(2-Chloroethoxy)methane	1667	1667	NA	1500	1350	90	81	10	30	50-112
2,4-Dichlorophenol	3333	3333	NA	3110	2840	93	85	9	30	48-115
1,2,4-Trichlorobenzene	1667	1667	NA	1530	1380	92	83	10	30	39-105
Naphthalene	1667	1667	NA	1430	1300	86	78	10	30	46-110
4-Chloroaniline	1667	1667	NA	432	474	26	28	9	30	19-125
Hexachlorobutadiene	1667	1667	NA	1540	1380	92	83	11	30	28-109
4-Chloro-3-Methylphenol	3333	3333	NA	3570	3230	107	97	10	30	52-121
2-Methylnaphthalene	1667	1667	NA	1580	1450	95	87	8	30	51-108
Hexachlorocyclopentadiene	1667	1667	NA	1100	1000	66	60	10	30	0- 90
2,4,6-Trichlorophenol	3333	3333	NA	3140	2950	94	88	6	30	51-120
2,4,5-Trichlorophenol	3333	3333	NA	3160	3100	95	93	2	30	53-120
2-Chloronaphthalene	1667	1667	NA	1800	1730	108	104	4	30	44-156
2-Nitroaniline	1667	1667	NA	1540	1440	92	86	7	30	53-127
Dimethyl Phthalate	1667	1667	NA	1730	1610	104	97	7	30	14-138
Acenaphthylene	1667	1667	NA	1480	1370	89	82	8	30	51-107
2,6-Dinitrotoluene	1667	1667	NA	1740	1600	104	96	8	30	51-120
3-Nitroaniline	1667	1667	NA	1380	1300	83	78	6	30	48-124
Acenaphthene	1667	1667	NA	1500	1390	90	83	8	30	52-113
2,4-Dinitrophenol	3333	3333	NA	2580	2030	77	61	24	30	22-155
4-Nitrophenol	3333	3333	NA	2570	2350	77	70	9	30	6-132
Dibenzofuran	1667	1667	NA	1620	1520	97	91	6	30	54-111
2,4-Dinitrotoluene	1667	1667	NA	1650	1450	99	87	13	30	50-119
Diethylphthalate	1667	1667	NA	927	845	56	51	9	30	31-129
4-Chlorophenyl-phenylether	1667	1667	NA	1690	1540	101	92	9	30	56-115
Fluorene	1667	1667	NA	1600	1470	96	88	8	30	56-115
4-Nitroaniline	1667	1667	NA	1390	1260	83	76	10	30	50-137
4,6-Dinitro-2-Methylphenol	3333	3333	NA	3180	2770	95	83	14	30	43-151
N-Nitrosodiphenylamine	3333	3333	NA	3540	3300	106	99	7	30	67-131
4-Bromophenyl-phenylether	1667	1667	NA	1890	1730	113	104	9	30	59-118
Hexachlorobenzene	1667	1667	NA	1700	1560	102	94	8	30	55-116

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297-318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/14/03
Analysis Date: 11/22/03
Report Date: 11/25/2003
Matrix: SOIL

Lab ID: WG4541-2 & WG4541-3
Client ID: WG4541-LCS & WG4541-LCSD
SDG: CTO318-2
Extracted by: LS
Extraction Method: SW846 3550
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG4541
Units: ug/Kg

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Pentachlorophenol	3333	3333	NA	3080	2690	92	81	14	30	38-148
Phenanthrene	1667	1667	NA	1610	1460	97	88	10	30	56-117
Anthracene	1667	1667	NA	1650	1520	99	91	8	30	56-117
Carbazole	1667	1667	NA	1650	1520	99	91	8	30	63-133
Di-n-butylphthalate	1667	1667	NA	1940	1760	116	106	10	30	43-136
Fluoranthene	1667	1667	NA	1600	1450	96	87	10	30	51-129
Pyrene	1667	1667	NA	1710	1540	103	92	10	30	46-133
Butylbenzylphthalate	1667	1667	NA	1900	1720	114	103	10	30	31-156
3,3'-Dichlorobenzidine	1667	1667	NA	1120	1040	67	62	7	30	30-128
Benzo(a)anthracene	1667	1667	NA	1510	1380	91	83	9	30	54-118
Chrysene	1667	1667	NA	1600	1490	96	89	7	30	57-119
bis(2-Ethylhexyl)phthalate	1667	1667	NA	2030	1820	122	109	11	30	43-151
Di-n-octylphthalate	1667	1667	NA	2050	1820	123	109	12	30	42-166
Benzo(b)fluoranthene	1667	1667	NA	1560	1400	94	84	11	30	48-129
Benzo(k)fluoranthene	1667	1667	NA	1620	1520	97	91	6	30	50-126
Benzo(a)pyrene	1667	1667	NA	1640	1520	98	91	8	30	52-126
Indeno(1,2,3-cd)pyrene	1667	1667	NA	1370	1310	82	79	4	30	46-128
Dibenzo(a,h)anthracene	1667	1667	NA	1460	1370	88	82	6	30	45-118
Benzo(g,h,i)perylene	1667	1667	NA	1420	1360	85	82	4	30	46-121

Katahdin Analytical Services 2000013

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297-318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/17/03
Analysis Date: 11/18/03
Report Date: 11/25/2003
Matrix: SOIL

Lab ID: WG4589-2
Client ID: WG4589-LCS
SDG: CTO318-2
Extracted by: LS
Extraction Method: SW846 3540
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG4589
Units: ug/Kg

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Naphthalene	1667	NA	1180	71	46-102
2-Methylnaphthalene	1667	NA	1450	87	41-114
Acenaphthylene	1667	NA	1180	71	52-100
Acenaphthene	1667	NA	1210	73	53-104
Fluorene	1667	NA	1290	77	52-113
Phenanthrene	1667	NA	1370	82	55-112
Anthracene	1667	NA	1350	81	54-112
Fluoranthene	1667	NA	1260	76	50-123
Pyrene	1667	NA	1400	84	53-121
Benzo(a)anthracene	1667	NA	1250	75	54-111
Chrysene	1667	NA	1120	67	54-115
Benzo(b)fluoranthene	1667	NA	1360	82	48-122
Benzo(k)fluoranthene	1667	NA	1360	82	52-117
Benzo(a)pyrene	1667	NA	1380	83	52-118
Indeno(1,2,3-cd)pyrene	1667	NA	1110	67	43-122
Dibenzo(a,h)anthracene	1667	NA	1100	66	42-113
Benzo(g,h,i)perylene	1667	NA	1060	64	41-118

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297-318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/20/03
Analysis Date: 11/25/03
Report Date: 11/25/2003
Matrix: SOIL

Lab ID: WG4689-2 & WG4689-3
Client ID: WG4689-LCS & WG4689-LCSD
SDG: CTO318-2
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG4689
Units: ug/Kg

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Naphthalene	1667	1667	NA	1150	1130	69	68	2	50	46-102
2-Methylnaphthalene	1667	1667	NA	1410	1420	85	85	0.7	50	41-114
Acenaphthylene	1667	1667	NA	1200	1180	72	71	2	50	52-100
Acenaphthene	1667	1667	NA	1220	1190	73	71	2	50	53-104
Fluorene	1667	1667	NA	1300	1310	78	79	0.8	50	52-113
Phenanthrene	1667	1667	NA	1350	1360	81	82	0.7	50	55-112
Anthracene	1667	1667	NA	1390	1350	83	81	3	50	54-112
Fluoranthene	1667	1667	NA	1340	1360	80	82	1	50	50-123
Pyrene	1667	1667	NA	1240	1210	74	73	2	50	53-121
Benzo(a)anthracene	1667	1667	NA	1230	1210	74	73	2	50	54-111
Chrysene	1667	1667	NA	1130	1120	68	67	0.9	50	54-115
Benzo(b)fluoranthene	1667	1667	NA	1270	1270	76	76	0.0	50	48-122
Benzo(k)fluoranthene	1667	1667	NA	1400	1300	84	78	7	50	52-117
Benzo(a)pyrene	1667	1667	NA	1320	1360	79	82	3	50	52-118
Indeno(1,2,3-cd)pyrene	1667	1667	NA	1150	1170	69	70	2	50	43-122
Dibenzo(a,h)anthracene	1667	1667	NA	1210	1260	73	76	4	50	42-113
Benzo(g,h,i)perylene	1667	1667	NA	1130	1160	68	70	3	50	41-118

FORM III SV-2

U5452.D & U5453.D

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297-318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID: UD528 DFTPP Injection Date: 11/12/03

Instrument ID: GCMS-U DFTPP Injection Time: 1145

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	31.9
68	Less than 2.0% of mass 69	0.9 (1.7)1
69	Less than 100.0% of mass 198	53.7
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	40.0 - 60.0% of mass 198	51.5
197	Less than 1.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.2
275	10.0 - 30.0% of mass 198	22.5
365	1.0 - 100.0% of mass 198	2.7
441	0.0 - 100.0% of mass 443	8.5 (54.6)2
442	40.0 - 100.0% of mass 198	77.8
443	17.0 - 23.0% of mass 442	15.5 (20.0)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050U1112	U5287	11/12/03	1204
02		SSTD200U1112	U5288	11/12/03	1255
03		SSTD010U1112	U5289	11/12/03	1340
04		SSTD020U1112	U5290	11/12/03	1425
05		SSTD120U1112	U5291	11/12/03	1511
06		SSTD160U1112	U5292	11/12/03	1555
07					
08					
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18					
19					
20					

FORM V SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297-318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-U Calibration Date(s): 11/12/03 11/12/03

Column: RTX-5SILMS ID: 0.25 (mm) Calibration Time(s): 1204 1555

LAB FILE ID: RF10: U5289 RF20: U5290 RF50: U5287
RF120: U5291 RF160: U5292 RF200: U5288

COMPOUND	RF10	RF20	RF50	RF120	RF160	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2	
Phenol	1.385	1.574	1.609	1.449	1.575	1.440	AVRG		1.50539	6.114	15.000	
Bis(2-Chloroethyl)ether	1.081	1.239	1.209	1.125	1.177	1.097	AVRG		1.15459	5.507	15.000	
2-Chlorophenol	1.162	1.268	1.232	1.112	1.172	1.092	AVRG		1.17288	5.744	15.000	
1,3-Dichlorobenzene	1.345	1.425	1.353	1.247	1.298	1.182	AVRG		1.30835	6.550	15.000	
1,4-Dichlorobenzene	1.304	1.442	1.377	1.256	1.298	1.172	AVRG		1.30817	7.167	15.000	
1,2-Dichlorobenzene	1.242	1.338	1.278	1.154	1.187	1.065	AVRG		1.21069	7.990	15.000	
2-Methylphenol	1.030	1.122	1.130	1.018	1.117	1.082	AVRG		1.08305	4.516	15.000	
2,2'-Oxybis(1-Chloropropane)	1.060	1.107	1.042	0.945	1.011	0.951	AVRG		1.01928	6.217	15.000	
4-Methylphenol	1.027	1.178	1.164	1.040	1.148	1.105	AVRG		1.11022	5.826	15.000	
N-Nitroso-di-n-propylamine	0.958	1.066	1.020	0.924	0.986	0.867	AVRG		0.97012	7.250	15.000	
Hexachloroethane	0.537	0.592	0.545	0.514	0.530	0.467	AVRG		0.53083	7.665	15.000	
Nitrobenzene	0.347	0.391	0.374	0.369	0.411	0.380	AVRG		0.37887	5.716	15.000	
Isophorone	0.608	0.657	0.640	0.618	0.696	0.665	AVRG		0.64746	4.998	15.000	
2-Nitrophenol	0.133	0.164	0.170	0.165	0.178	0.171	AVRG		0.16372	9.650	15.000	
2,4-Dimethylphenol	0.282	0.320	0.327	0.304	0.337	0.327	AVRG		0.31634	6.316	15.000	
Bis(2-Chloroethoxy)methane	0.351	0.385	0.378	0.364	0.401	0.372	AVRG		0.37524	4.576	15.000	
2,4-Dichlorophenol	0.212	0.252	0.253	0.243	0.258	0.239	AVRG		0.24265	6.862	15.000	
1,2,4-Trichlorobenzene	0.265	0.287	0.269	0.256	0.268	0.244	AVRG		0.26503	5.451	15.000	
Naphthalene	0.947	1.009	0.890	0.879	0.912	0.761	AVRG		0.89980	9.182	15.000	
4-Chloroaniline	0.276	0.331	0.336	0.294	0.294	0.317	AVRG		0.30819	7.658	15.000	
Hexachlorobutadiene	0.130	0.139	0.127	0.122	0.130	0.116	AVRG		0.12750	6.088	15.000	
4-Chloro-3-Methylphenol	0.218	0.254	0.264	0.218	0.245	0.242	AVRG		0.24038	7.777	15.000	
2-Methylnaphthalene	0.537	0.589	0.574	0.537	0.565	0.542	AVRG		0.55740	3.933	15.000	
Hexachlorocyclopentadiene	0.193	0.239	0.263	0.257	0.282	0.257	AVRG		0.24863	12.326	15.000	
2,4,6-Trichlorophenol	0.258	0.296	0.298	0.283	0.303	0.287	AVRG		0.28771	5.626	15.000	
2,4,5-Trichlorophenol	0.249	0.298	0.322	0.313	0.334	0.307	AVRG		0.30382	9.722	15.000	
2-Chloronaphthalene	0.928	0.986	0.897	0.819	0.811	0.721	AVRG		0.86050	11.075	15.000	
2-Nitroaniline	0.241	0.281	0.312	0.306	0.335	0.328	AVRG		0.30061	11.560	15.000	
Dimethyl Phthalate	1.006	1.089	1.017	0.996	1.028	0.973	AVRG		1.01817	3.880	15.000	
Acenaphthylene	1.618	1.753	1.522	1.511	1.545	1.318	AVRG		1.54441	9.250	15.000	
2,6-Dinitrotoluene	0.218	0.243	0.235	0.236	0.245	0.233	AVRG		0.23502	4.003	15.000	
3-Nitroaniline	0.173	0.213	0.234	0.226	0.222	0.235	AVRG		0.21713	10.696	15.000	
Acenaphthene	1.029	1.079	0.932	0.941	0.965	0.807	AVRG		0.95913	9.719	15.000	
2,4-Dinitrophenol	0.016	0.069	0.131	0.142	0.158	0.168	AVRG		0.11411	51.978	15.000	<-
4-Nitrophenol	25700	66368	223840	458210	683610	1036500	LINR	0.15084	6.38620	0.99855	0.99000	
Dibenzofuran	1.259	1.348	1.269	1.194	1.214	1.120	AVRG		1.23400	6.283	15.000	
2,4-Dinitrotoluene	0.280	0.322	0.323	0.328	0.325	0.323	AVRG		0.31682	5.668	15.000	
Diethylphthalate	3.816	2.220	1.708	1.159	1.062	1.194	AVRG		1.85952	56.660	15.000	<-
4-Chlorophenyl-phenylether	0.445	0.478	0.444	0.440	0.444	0.405	AVRG		0.44272	5.216	15.000	
Fluorene	1.121	1.200	1.052	1.089	1.077	0.919	AVRG		1.07623	8.600	15.000	
4-Nitroaniline	41046	95856	362590	703290	964380	1558200	LINR	0.12691	4.32641	0.99423	0.99000	
4,6-Dinitro-2-Methylphenol	25933	72263	303730	502980	881310	1324500	LINR	0.17137	7.51406	0.99842	0.99000	
N-Nitrosodiphenylamine	0.449	0.490	0.468	0.441	0.473	0.423	AVRG		0.45729	5.302	15.000	
4-Bromophenyl-phenylether	0.146	0.160	0.151	0.146	0.157	0.140	AVRG		0.15009	5.141	15.000	

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297-318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-U Calibration Date(s): 11/12/03 11/12/03

Column: RTX-5SILMS ID: 0.25 (mm) Calibration Time(s): 1204 1555

LAB FILE ID: RF10: U5289 RF20: U5290 RF50: U5287
RF120: U5291 RF160: U5292 RF200: U5288

COMPOUND	RF10	RF20	RF50	RF120	RF160	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
Hexachlorobenzene	0.165	0.173	0.159	0.150	0.161	0.146	AVRG		0.15908	6.071	15.000
Pentachlorophenol	27092	76487	271480	527790	732140	1068100	LINR	7e-002	9.33988	0.99891	0.99000
Phenanthrene	1.008	1.076	0.925	0.923	0.955	0.800	AVRG		0.94785	9.801	15.000
Anthracene	0.973	1.025	0.922	0.913	0.953	0.804	AVRG		0.93180	7.967	15.000
Carbazole	0.756	0.802	0.787	0.755	0.773	0.721	AVRG		0.76573	3.718	15.000
Di-n-butylphthalate	1.046	1.125	1.041	1.012	0.988	0.891	AVRG		1.01718	7.593	15.000
Fluoranthene	0.970	0.999	0.873	0.904	0.889	0.768	AVRG		0.90052	9.033	15.000
Pyrene	1.603	1.563	1.289	1.352	1.368	1.220	AVRG		1.39946	10.875	15.000
Butylbenzylphthalate	0.730	0.719	0.641	0.656	0.672	0.637	AVRG		0.67587	5.861	15.000
3,3'-Dichlorobenzidine	0.209	0.225	0.236	0.206	0.230	0.221	AVRG		0.22129	5.398	15.000
Benzo(a)anthracene	1.122	1.148	0.990	1.055	1.122	0.997	AVRG		1.07226	6.362	15.000
Chrysene	1.076	1.110	0.915	0.958	1.015	0.884	AVRG		0.99310	9.044	15.000
bis(2-Ethylhexyl)phthalate	0.948	0.983	0.900	0.908	0.910	0.851	AVRG		0.91668	4.898	15.000
Di-n-octylphthalate	1.736	1.953	1.822	2.024	1.829	1.790	AVRG		1.85893	5.795	15.000
Benzo(b)fluoranthene	1.137	1.307	1.129	1.243	1.279	1.199	AVRG		1.21570	6.069	15.000
Benzo(k)fluoranthene	1.325	1.396	1.160	1.262	1.249	1.092	AVRG		1.24738	8.782	15.000
Benzo(a)pyrene	0.924	1.030	0.975	1.048	1.110	0.988	AVRG		1.01269	6.370	15.000
Indeno(1,2,3-cd)pyrene	0.586	0.673	0.750	0.768	0.898	0.789	AVRG		0.74387	14.274	15.000
Dibenzo(a,h)anthracene	0.598	0.653	0.730	0.746	0.865	0.760	AVRG		0.72519	12.715	15.000
Benzo(g,h,i)perylene	0.845	0.943	0.895	0.867	0.940	0.814	AVRG		0.88402	5.868	15.000
2-Fluorophenol	0.905	1.076	1.051	1.047	1.138	1.030	AVRG		1.04127	7.371	15.000
Phenol-D6	1.318	1.517	1.426	1.345	1.466	1.329	AVRG		1.40014	5.836	15.000
Nitrobenzene-D5	0.349	0.384	0.376	0.370	0.412	0.383	AVRG		0.37919	5.474	15.000
2-Fluorobiphenyl	1.069	1.166	1.036	1.000	1.029	0.896	AVRG		1.03268	8.528	15.000
2,4,6-Tribromophenol	0.100	0.118	0.116	0.122	0.119	0.110	AVRG		0.11411	6.742	15.000
Terphenyl-D14	0.928	0.894	0.764	0.785	0.804	0.746	AVRG		0.82018	9.004	15.000

Average %RSD test result.

Calculate Average %RSD: 9.487401009
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM VI SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297-318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID: UD536 DFTPP Injection Date: 11/21/03

Instrument ID: GCMS-U DFTPP Injection Time: 1029

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	33.7
68	Less than 2.0% of mass 69	0.4 (0.8)1
69	Less than 100.0% of mass 198	55.9
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	51.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	21.2
365	1.0 - 100.0% of mass 198	2.4
441	0.0 - 100.0% of mass 443	11.6 (84.5)2
442	40.0 - 100.0% of mass 198	72.7
443	17.0 - 23.0% of mass 442	13.7 (18.9)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050U1121	U5403	11/21/03	1047
02	G01-SB-05-1103M	WT2880-2	U5405	11/21/03	1233
03	G01-SB-01-1103L	WT2880-1	U5406	11/21/03	1318
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
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FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297-318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-U Calibration Date: 11/22/03 Time: 0628

Lab File ID: U5414 Init. Calib. Date(s): 11/12/03 11/12/03

Init. Calib. Times: 1204 1555

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Phenol	1.5050000	1.4984000	1.4984000	0.01	-0.44	20.00	AVRG
Bis(2-Chloroethyl)ether	1.1550000	1.1881000	1.1881000	0.01	2.86	100.00	AVRG
2-Chlorophenol	1.1730000	1.1997000	1.1997000	0.01	2.28	100.00	AVRG
1,3-Dichlorobenzene	1.3080000	1.3378000	1.3378000	0.01	2.28	100.00	AVRG
1,4-Dichlorobenzene	1.3080000	1.3454000	1.3454000	0.01	2.86	20.00	AVRG
1,2-Dichlorobenzene	1.2110000	1.2495000	1.2495000	0.01	3.18	100.00	AVRG
2-Methylphenol	1.0830000	1.0899000	1.0899000	0.01	0.64	100.00	AVRG
2,2'-Oxybis(1-Chloropropane)	1.0190000	0.9949800	0.9949800	0.01	-2.36	100.00	AVRG
4-Methylphenol	1.1100000	1.1400000	1.1400000	0.01	2.70	100.00	AVRG
N-Nitroso-di-n-propylamine	0.9700000	1.0086000	1.0086000	0.05	3.98	100.00	AVRG
Hexachloroethane	0.5310000	0.5489700	0.5489700	0.01	3.38	100.00	AVRG
Nitrobenzene	0.3790000	0.3919800	0.3919800	0.01	3.42	100.00	AVRG
Isophorone	0.6470000	0.6797300	0.6797300	0.01	5.06	100.00	AVRG
2-Nitrophenol	0.1640000	0.1803000	0.1803000	0.01	9.94	20.00	AVRG
2,4-Dimethylphenol	0.3160000	0.3413900	0.3413900	0.01	8.03	100.00	AVRG
Bis(2-Chloroethoxy)methane	0.3750000	0.3996000	0.3996000	0.01	6.56	100.00	AVRG
2,4-Dichlorophenol	0.2430000	0.2682300	0.2682300	0.01	10.38	20.00	AVRG
1,2,4-Trichlorobenzene	0.2650000	0.2909700	0.2909700	0.01	9.80	100.00	AVRG
Naphthalene	0.9000000	0.9284800	0.9284800	0.01	3.16	100.00	AVRG
4-Chloroaniline	0.3080000	0.3469600	0.3469600	0.01	12.65	100.00	AVRG
Hexachlorobutadiene	0.1270000	0.1401800	0.1401800	0.01	10.38	20.00	AVRG
4-Chloro-3-Methylphenol	0.2400000	0.2804000	0.2804000	0.01	16.83	20.00	AVRG
2-Methylnaphthalene	0.5570000	0.6060900	0.6060900	0.01	8.81	100.00	AVRG
Hexachlorocyclopentadiene	0.2480000	0.2656000	0.2656000	0.05	7.10	100.00	AVRG
2,4,6-Trichlorophenol	0.2880000	0.3289900	0.3289900	0.01	14.23	20.00	AVRG
2,4,5-Trichlorophenol	0.3040000	0.3523600	0.3523600	0.01	15.91	100.00	AVRG
2-Chloronaphthalene	0.8600000	0.9581900	0.9581900	0.01	11.42	100.00	AVRG
2-Nitroaniline	0.3000000	0.3166000	0.3166000	0.01	5.53	100.00	AVRG
Dimethyl Phthalate	1.0180000	1.1426000	1.1426000	0.01	12.24	100.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297-318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-U Calibration Date: 11/22/03 Time: 0628

Lab File ID: U5414 Init. Calib. Date(s): 11/12/03 11/12/03

Init. Calib. Times: 1204 1555

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Acenaphthylene	1.5440000	1.6585000	1.6585000	0.01	7.42	100.00	AVRG	
2,6-Dinitrotoluene	0.2350000	0.2679200	0.2679200	0.01	14.01	100.00	AVRG	
3-Nitroaniline	0.2170000	0.2343400	0.2343400	0.01	7.99	100.00	AVRG	
Acenaphthene	0.9590000	1.0162000	1.0162000	0.01	5.96	20.00	AVRG	
2,4-Dinitrophenol	0.1140000	0.1216800	0.1216800	0.05	6.74	100.00	AVRG	
4-Nitrophenol	43.526000	50.000000	0.1174200	0.05	-12.95	100.00	LINR	
Dibenzofuran	1.2340000	1.3714000	1.3714000	0.01	11.13	100.00	AVRG	
2,4-Dinitrotoluene	0.3170000	0.3490300	0.3490300	0.01	10.10	100.00	AVRG	
Diethylphthalate	1.8600000	1.1342000	1.1342000	0.01	-39.02	100.00	AVRG	
4-Chlorophenyl-phenylether	0.4430000	0.4993600	0.4993600	0.01	12.72	100.00	AVRG	
Fluorene	1.0760000	1.1625000	1.1625000	0.01	8.04	100.00	AVRG	
4-Nitroaniline	42.913000	50.000000	0.1749100	0.01	-14.17	100.00	LINR	
4,6-Dinitro-2-Methylphenol	53.333000	50.000000	0.1237100	0.01	6.67	100.00	LINR	
N-Nitrosodiphenylamine	0.4570000	0.5164500	0.5164500	0.01	13.01	20.00	AVRG	
4-Bromophenyl-phenylether	0.1500000	0.1751400	0.1751400	0.01	16.76	100.00	AVRG	
Hexachlorobenzene	0.1590000	0.1867700	0.1867700	0.01	17.46	100.00	AVRG	
Pentachlorophenol	54.105000	50.000000	0.1102200	0.01	8.21	20.00	LINR	
Phenanthrene	0.9480000	1.0036000	1.0036000	0.01	5.86	100.00	AVRG	
Anthracene	0.9320000	0.9952600	0.9952600	0.01	6.79	100.00	AVRG	
Carbazole	0.7660000	0.7346800	0.7346800	0.01	-4.09	100.00	AVRG	
Di-n-butylphthalate	1.0170000	1.1834000	1.1834000	0.01	16.36	100.00	AVRG	
Fluoranthene	0.9000000	0.8684800	0.8684800	0.01	-3.50	20.00	AVRG	
Pyrene	1.3990000	1.6519000	1.6519000	0.01	18.08	100.00	AVRG	
Butylbenzylphthalate	0.6760000	0.8405600	0.8405600	0.01	24.34	100.00	AVRG	
3,3'-Dichlorobenzidine	0.2210000	0.2346600	0.2346600	0.01	6.18	100.00	AVRG	
Benzo(a)anthracene	1.0720000	1.0806000	1.0806000	0.01	0.80	100.00	AVRG	
Chrysene	0.9930000	1.0310000	1.0310000	0.01	3.83	100.00	AVRG	
bis(2-Ethylhexyl)phthalate	0.9170000	1.1904000	1.1904000	0.01	29.82	100.00	AVRG	
Di-n-octylphthalate	1.8590000	2.2694000	2.2694000	0.01	22.08	20.00	AVRG	<-

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297-318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-U Calibration Date: 11/22/03 Time: 0628

Lab File ID: U5414 Init. Calib. Date(s): 11/12/03 11/12/03

Init. Calib. Times: 1204 1555

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Benzo(b)fluoranthene	1.2160000	1.1550000	1.1550000	0.01	-5.02	100.00	AVRG
Benzo(k)fluoranthene	1.2470000	1.3352000	1.3352000	0.01	7.07	100.00	AVRG
Benzo(a)pyrene	1.0120000	1.0522000	1.0522000	0.01	3.97	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.7440000	0.7405900	0.7405900	0.01	-0.46	100.00	AVRG
Dibenzo(a,h)anthracene	0.7250000	0.7383900	0.7383900	0.01	1.85	100.00	AVRG
Benzo(g,h,i)perylene	0.8840000	0.9128900	0.9128900	0.01	3.27	100.00	AVRG
2-Fluorophenol	1.0410000	1.0104000	1.0104000	0.01	-2.94	100.00	AVRG
Phenol-D6	1.4000000	1.3203000	1.3203000	0.01	-5.69	100.00	AVRG
Nitrobenzene-D5	0.3790000	0.3865200	0.3865200	0.01	1.98	100.00	AVRG
2-Fluorobiphenyl	1.0330000	1.1429000	1.1429000	0.01	10.64	100.00	AVRG
2,4,6-Tribromophenol	0.1140000	0.1298800	0.1298800	0.01	13.93	100.00	AVRG
Terphenyl-D14	0.8200000	1.0031000	1.0031000	0.01	22.33	100.00	AVRG

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297-318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID: UD538 DFTPP Injection Date: 11/24/03

Instrument ID: GCMS-U DFTPP Injection Time: 1127

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.1
68	Less than 2.0% of mass 69	0.9 (1.5)1
69	Less than 100.0% of mass 198	58.1
70	Less than 2.0% of mass 69	0.6 (1.0)1
127	40.0 - 60.0% of mass 198	54.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	21.2
365	1.0 - 100.0% of mass 198	2.4
441	0.0 - 100.0% of mass 443	11.3 (78.8)2
442	40.0 - 100.0% of mass 198	72.4
443	17.0 - 23.0% of mass 442	14.3 (19.7)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050U1124	U5432	11/24/03	1144
02	IR1-CSS-01-1103	WT2857-1	U5438	11/24/03	1612
03	IR1-CSS-02-1103	WT2857-2	U5439	11/24/03	1656
04					
05					
06					
07					
08					
09					
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FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297-318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-U Calibration Date: 11/24/03 Time: 1144

Lab File ID: U5432 Init. Calib. Date(s): 11/12/03 11/12/03

Init. Calib. Times: 1204 1555

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Phenol	1.5050000	1.5296000	1.5296000	0.01	1.63	20.00	AVRG
Bis(2-Chloroethyl)ether	1.1550000	1.2147000	1.2147000	0.01	5.17	100.00	AVRG
2-Chlorophenol	1.1730000	1.2147000	1.2147000	0.01	3.56	100.00	AVRG
1,3-Dichlorobenzene	1.3080000	1.3568000	1.3568000	0.01	3.73	100.00	AVRG
1,4-Dichlorobenzene	1.3080000	1.3578000	1.3578000	0.01	3.81	20.00	AVRG
1,2-Dichlorobenzene	1.2110000	1.2493000	1.2493000	0.01	3.16	100.00	AVRG
2-Methylphenol	1.0830000	1.0993000	1.0993000	0.01	1.50	100.00	AVRG
2,2'-Oxybis(1-Chloropropane)	1.0190000	1.0370000	1.0370000	0.01	1.77	100.00	AVRG
4-Methylphenol	1.1100000	1.1287000	1.1287000	0.01	1.68	100.00	AVRG
N-Nitroso-di-n-propylamine	0.9700000	1.0318000	1.0318000	0.05	6.37	100.00	AVRG
Hexachloroethane	0.5310000	0.5522500	0.5522500	0.01	4.00	100.00	AVRG
Nitrobenzene	0.3790000	0.3882100	0.3882100	0.01	2.43	100.00	AVRG
Isophorone	0.6470000	0.6733600	0.6733600	0.01	4.07	100.00	AVRG
2-Nitrophenol	0.1640000	0.1748000	0.1748000	0.01	6.58	20.00	AVRG
2,4-Dimethylphenol	0.3160000	0.3368000	0.3368000	0.01	6.58	100.00	AVRG
Bis(2-Chloroethoxy)methane	0.3750000	0.3984300	0.3984300	0.01	6.25	100.00	AVRG
2,4-Dichlorophenol	0.2430000	0.2639300	0.2639300	0.01	8.61	20.00	AVRG
1,2,4-Trichlorobenzene	0.2650000	0.2814900	0.2814900	0.01	6.22	100.00	AVRG
Naphthalene	0.9000000	0.9106300	0.9106300	0.01	1.18	100.00	AVRG
4-Chloroaniline	0.3080000	0.3434300	0.3434300	0.01	11.50	100.00	AVRG
Hexachlorobutadiene	0.1270000	0.1352000	0.1352000	0.01	6.46	20.00	AVRG
4-Chloro-3-Methylphenol	0.2400000	0.2771400	0.2771400	0.01	15.48	20.00	AVRG
2-Methylnaphthalene	0.5570000	0.5900500	0.5900500	0.01	5.93	100.00	AVRG
Hexachlorocyclopentadiene	0.2480000	0.2376300	0.2376300	0.05	-4.18	100.00	AVRG
2,4,6-Trichlorophenol	0.2880000	0.3019400	0.3019400	0.01	4.84	20.00	AVRG
2,4,5-Trichlorophenol	0.3040000	0.3260900	0.3260900	0.01	7.27	100.00	AVRG
2-Chloronaphthalene	0.8600000	0.8927900	0.8927900	0.01	3.81	100.00	AVRG
2-Nitroaniline	0.3000000	0.2971500	0.2971500	0.01	-0.95	100.00	AVRG
Dimethyl Phthalate	1.0180000	1.0620000	1.0620000	0.01	4.32	100.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297-318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-U Calibration Date: 11/24/03 Time: 1144

Lab File ID: U5432 Init. Calib. Date(s): 11/12/03 11/12/03

Init. Calib. Times: 1204 1555

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Acenaphthylene	1.5440000	1.5567000	1.5567000	0.01	0.82	100.00	AVRG
2,6-Dinitrotoluene	0.2350000	0.2459400	0.2459400	0.01	4.66	100.00	AVRG
3-Nitroaniline	0.2170000	0.2220400	0.2220400	0.01	2.32	100.00	AVRG
Acenaphthene	0.9590000	0.9598900	0.9598900	0.01	0.09	20.00	AVRG
2,4-Dinitrophenol	0.1140000	9.75e-002	9.75e-002	0.05	-14.47	100.00	AVRG
4-Nitrophenol	39.166000	50.000000	0.1037600	0.05	-21.67	100.00	LINR
Dibenzofuran	1.2340000	1.2833000	1.2833000	0.01	4.00	100.00	AVRG
2,4-Dinitrotoluene	0.3170000	0.3235000	0.3235000	0.01	2.05	100.00	AVRG
Diethylphthalate	1.8600000	1.0509000	1.0509000	0.01	-43.50	100.00	AVRG
4-Chlorophenyl-phenylether	0.4430000	0.4643000	0.4643000	0.01	4.81	100.00	AVRG
Fluorene	1.0760000	1.0759000	1.0759000	0.01	-0.01	100.00	AVRG
4-Nitroaniline	41.854000	50.000000	0.1700200	0.01	-16.29	100.00	LINR
4,6-Dinitro-2-Methylphenol	47.212000	50.000000	0.1074200	0.01	-5.58	100.00	LINR
N-Nitrosodiphenylamine	0.4570000	0.4955100	0.4955100	0.01	8.43	20.00	AVRG
4-Bromophenyl-phenylether	0.1500000	0.1667500	0.1667500	0.01	11.17	100.00	AVRG
Hexachlorobenzene	0.1590000	0.1746100	0.1746100	0.01	9.82	100.00	AVRG
Pentachlorophenol	49.826000	50.000000	0.1010500	0.01	-0.35	20.00	LINR
Phenanthrene	0.9480000	0.9503900	0.9503900	0.01	0.25	100.00	AVRG
Anthracene	0.9320000	0.9340000	0.9340000	0.01	0.21	100.00	AVRG
Carbazole	0.7660000	0.7260600	0.7260600	0.01	-5.21	100.00	AVRG
Di-n-butylphthalate	1.0170000	1.1337000	1.1337000	0.01	11.48	100.00	AVRG
Fluoranthene	0.9000000	0.8252200	0.8252200	0.01	-8.31	20.00	AVRG
Pyrene	1.3990000	1.5066000	1.5066000	0.01	7.69	100.00	AVRG
Butylbenzylphthalate	0.6760000	0.7732200	0.7732200	0.01	14.38	100.00	AVRG
3,3'-Dichlorobenzidine	0.2210000	0.2380400	0.2380400	0.01	7.71	100.00	AVRG
Benzo(a)anthracene	1.0720000	1.0103000	1.0103000	0.01	-5.76	100.00	AVRG
Chrysene	0.9930000	0.9935700	0.9935700	0.01	0.06	100.00	AVRG
bis(2-Ethylhexyl)phthalate	0.9170000	1.0959000	1.0959000	0.01	19.51	100.00	AVRG
Di-n-octylphthalate	1.8590000	2.1148000	2.1148000	0.01	13.76	20.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297-318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-U Calibration Date: 11/24/03 Time: 1144

Lab File ID: U5432 Init. Calib. Date(s): 11/12/03 11/12/03

Init. Calib. Times: 1204 1555

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Benzo(b)fluoranthene	1.2160000	1.0847000	1.0847000	0.01	-10.80	100.00	AVRG
Benzo(k)fluoranthene	1.2470000	1.2935000	1.2935000	0.01	3.73	100.00	AVRG
Benzo(a)pyrene	1.0120000	1.0103000	1.0103000	0.01	-0.17	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.7440000	0.6953000	0.6953000	0.01	-6.54	100.00	AVRG
Dibenzo(a,h)anthracene	0.7250000	0.6815200	0.6815200	0.01	-6.00	100.00	AVRG
Benzo(g,h,i)perylene	0.8840000	0.8736300	0.8736300	0.01	-1.17	100.00	AVRG
2-Fluorophenol	1.0410000	1.0566000	1.0566000	0.01	1.50	100.00	AVRG
Phenol-D6	1.4000000	1.3670000	1.3670000	0.01	-2.36	100.00	AVRG
Nitrobenzene-D5	0.3790000	0.3810800	0.3810800	0.01	0.55	100.00	AVRG
2-Fluorobiphenyl	1.0330000	1.0673000	1.0673000	0.01	3.32	100.00	AVRG
2,4,6-Tribromophenol	0.1140000	0.1169500	0.1169500	0.01	2.59	100.00	AVRG
Terphenyl-D14	0.8200000	0.9176800	0.9176800	0.01	11.91	100.00	AVRG

Katahdin Analytical Services 2000053

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297-318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID: UD539 DFTPP Injection Date: 11/25/03

Instrument ID: GCMS-U DFTPP Injection Time: 0925

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	32.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	54.0
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	40.0 - 60.0% of mass 198	52.2
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	21.4
365	1.0 - 100.0% of mass 198	2.4
441	0.0 - 100.0% of mass 443	12.9 (83.2)2
442	40.0 - 100.0% of mass 198	80.4
443	17.0 - 23.0% of mass 442	15.5 (19.3)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050U1125	U5449	11/25/03	0942
02	WG4689-BLANK	WG4689-1	U5451	11/25/03	1112
03	WG4689-LCS	WG4689-2	U5452	11/25/03	1157
04	WG4689-LCSD	WG4689-3	U5453	11/25/03	1242
05	G01-SB-19-1103H	WT2913-1	U5454	11/25/03	1326
06	KW-DUP-05-1103	WT2913-2	U5455	11/25/03	1412
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297-318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GCMS-U Calibration Date: 11/25/03 Time: 0942

Lab File ID: U5449 Init. Calib. Date(s): 11/12/03 11/12/03

Init. Calib. Times: 1204 1555

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF OR AMOUNT	RRF50.000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	0.9000000	0.9079300	0.01	0.88	100.00	AVRG
2-Methylnaphthalene	0.5570000	0.6140800	0.01	10.25	100.00	AVRG
1-Methylnaphthalene	0.5120000	0.5709900	0.01	11.52	100.00	AVRG
Acenaphthylene	1.5440000	1.5381000	0.01	-0.38	100.00	AVRG
Acenaphthene	0.9590000	0.9457800	0.01	-1.38	20.00	AVRG
Fluorene	1.0760000	1.0926000	0.01	1.54	100.00	AVRG
Phenanthrene	0.9480000	0.9425200	0.01	-0.58	100.00	AVRG
Anthracene	0.9320000	0.9537800	0.01	2.34	100.00	AVRG
Fluoranthene	0.9000000	0.8833700	0.01	-1.85	20.00	AVRG
Pyrene	1.3990000	1.3426000	0.01	-4.03	100.00	AVRG
Benzo(a)anthracene	1.0720000	1.0142000	0.01	-5.39	100.00	AVRG
Chrysene	0.9930000	0.9765900	0.01	-1.65	100.00	AVRG
Benzo(b)fluoranthene	1.2160000	1.1712000	0.01	-3.68	100.00	AVRG
Benzo(k)fluoranthene	1.2470000	1.2946000	0.01	3.82	100.00	AVRG
Benzo(a)pyrene	1.0120000	1.0492000	0.01	3.68	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.7440000	0.7142400	0.01	-4.00	100.00	AVRG
Dibenzo(a,h)anthracene	0.7250000	0.7240700	0.01	-0.13	100.00	AVRG
Benzo(g,h,i)perylene	0.8840000	0.8411900	0.01	-4.84	100.00	AVRG
Nitrobenzene-D5	0.3790000	0.3883600	0.01	2.47	100.00	AVRG
2-Fluorobiphenyl	1.0330000	1.0490000	0.01	1.55	100.00	AVRG
Terphenyl-D14	0.8200000	0.8408700	0.01	2.54	100.00	AVRG

FORM VII PEST

FORM 4

PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG4605-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Lab Sample ID: WG4605-1 Lab File ID: 8TL1062

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SW846 3545

Sulfur Cleanup: (Y/N) N Date Extracted: 11/17/03

Date Analyzed (1): 12/03/03 Date Analyzed (2): 12/03/03

Time Analyzed (1): 0131 Time Analyzed (2): 0131

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	WG4605-LCS	WG4605-2	8TL1063	12/03/03	12/03/03
02	WG4605-LCSD	WG4605-3	8TL1064	12/03/03	12/03/03
03	IR1-CSS-01-1103	WT2857-1	8TL1074	12/03/03	12/03/03
04	IR1-CSS-02-1103	WT2857-2	8TL1075	12/03/03	12/03/03
05					
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09					
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22					
23					
24					

COMMENTS: _____

Katahdin Analytical Services 3000004

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/17/03
Analysis Date: 12/03/03
Report Date: 12/04/2003
Matrix: SOIL
% Solids: 100

Lab ID: WG4605-1
Client ID: WG4605-Blank
SDG: CTO318-2
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG4605
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	1.7	1.0	1.7	1.7	0.68
58-89-9	gamma BHC	U	1.7	1.0	1.7	1.7	0.59
76-44-8	Heptachlor	U	1.7	1.0	1.7	1.7	0.55
319-85-7	beta-BHC	U	1.7	1.0	1.7	1.7	1.0
309-00-2	Aldrin	U	1.7	1.0	1.7	1.7	0.56
319-86-8	delta-BHC	U	1.7	1.0	1.7	1.7	0.58
1024-57-3	Heptachlor Epoxide	U	1.7	1.0	1.7	1.7	0.65
959-98-8	Endosulfan I	U	1.7	1.0	1.7	1.7	0.61
72-55-9	4,4'-DDE	U	3.3	1.0	3.3	3.3	0.62
60-57-1	Dieldrin	U	3.3	1.0	3.3	3.3	0.60
72-20-8	Endrin	U	3.3	1.0	3.3	3.3	0.57
72-54-8	4,4'-DDD	U	3.3	1.0	3.3	3.3	0.62
33213-65-9	Endosulfan II	U	3.3	1.0	3.3	3.3	0.57
50-29-3	4,4'-DDT	U	3.3	1.0	3.3	3.3	0.55
7421-36-3	Endrin Aldehyde	U	3.3	1.0	3.3	3.3	0.67
1031-07-8	Endosulfan sulfate	U	3.3	1.0	3.3	3.3	0.69
72-43-5	Methoxychlor	U	17	1.0	17	17	1.0
8001-35-2	Toxaphene	U	33	1.0	33	33	12
5103-71-9	alpha-Chlordane	U	1.7	1.0	1.7	1.7	0.69
5103-74-2	gamma-Chlordane	U	1.7	1.0	1.7	1.7	0.63
53494-70-5	Endrin Ketone	U	3.3	1.0	3.3	3.3	0.73
877-09-8	Tetrachloro-m-Xylene		76%				
2051-24-3	Decachlorobiphenyl		86%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/17/03
Analysis Date: 12/03/03
Report Date: 12/04/2003
Matrix: SOIL

Lab ID: WG4605-2 & WG4605-3
Client ID: WG4605-LCS & WG4605-LCSD
SDG: CTO318-2
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG4605
Units: ug/Kg

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
alpha-BHC	17	17	NA	12	14	73	81	10	50	59-101
gamma BHC	17	17	NA	13	15	77	88	13	50	63-101
Heptachlor	17	17	NA	13	14	77	87	12	50	62-106
beta-BHC	17	17	NA	13	14	78	86	10	50	70-106
Aldrin	17	17	NA	13	14	77	83	8	50	63-100
delta-BHC	17	17	NA	13	14	77	86	10	50	63-124
Heptachlor Epoxide	17	17	NA	13	14	77	81	5	50	72-102
Endosulfan I	17	17	NA	7.6	8.5	* 46	* 51	11	50	70- 93
4,4'-DDE	17	17	NA	13	14	77	84	9	50	69-108
Dieldrin	17	17	NA	13	14	78	86	10	50	71-104
Endrin	17	17	NA	14	15	81	89	10	50	69-110
4,4'-DDD	17	17	NA	13	14	77	87	12	50	61-130
Endosulfan II	17	17	NA	8.8	9.7	* 53	* 58	9	50	67-108
4,4'-DDT	17	17	NA	12	13	75	80	7	50	62-126
Endrin Aldehyde	17	17	NA	12	14	74	85	14	50	45-124
Endosulfan sulfate	17	17	NA	13	15	79	89	11	50	51-137
Methoxychlor	17	17	NA	14	16	85	95	11	50	53-180
alpha-Chlordane	17	17	NA	13	14	79	86	9	50	72-105
gamma-Chlordane	17	17	NA	13	14	77	85	9	50	72-102
Endrin Ketone	17	17	NA	14	16	85	96	13	50	66-140

FORM III PEST-2

8TL1063.d & 8TL1064.d

Katahdin Analytical Services 3000006

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 12/02/03 12/02/03

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 14.96 TCX: 3.15

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	EVAL	EVAL	12/02/03	1601		
02	ICAL	AB 0.05PPM	12/02/03	1628	14.96	3.15
03	ICAL	AB 0.005PPM	12/02/03	1655	14.96	3.15
04	ICAL	AB 0.010PPM	12/02/03	1722	14.96	3.15
05	ICAL	AB 0.025PPM	12/02/03	1749	14.96	3.15
06	ICAL	AB 0.10 PPM	12/02/03	1816	14.96	3.15
07	ICAL	AB 0.25PPM	12/02/03	1844	14.96	3.15
08	INDSOURCE	INDAB 0.05PP	12/02/03	1911		
09	ICAL	TOX 1.0PPM	12/02/03	1938		
10	ICAL	TC 0.5PPM	12/02/03	2221		
11	WG4605-BLANK	WG4605-1	12/03/03	0131	14.96	3.16
12	WG4605-LCS	WG4605-2	12/03/03	0158	14.96	3.15
13	WG4605-LCSD	WG4605-3	12/03/03	0225	14.96	3.15
14	IR1-CSS-01-1	WT2857-1	12/03/03	0657	14.96	3.15
15	IR1-CSS-02-1	WT2857-2	12/03/03	0724	14.96	3.15
16	CV	AB 0.05PPM	12/03/03	0846	14.96	3.15
17						
18						
19						
20						

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Katahdin Analytical Services 3000007

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 12/02/03 12/02/03

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 18.48 TCX: 3.69

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	EVAL	EVAL	12/02/03	1601		
02	ICAL	AB 0.05PPM	12/02/03	1628	18.49	3.69
03	ICAL	AB 0.005PPM	12/02/03	1655	18.49	3.71
04	ICAL	AB 0.010PPM	12/02/03	1722	18.49	3.71
05	ICAL	AB 0.025PPM	12/02/03	1749	18.49	3.71
06	ICAL	AB 0.10 PPM	12/02/03	1816	18.49	3.69
07	ICAL	AB 0.25PPM	12/02/03	1844	18.48	3.69
08	INDSOURCE	INDAB 0.05PP	12/02/03	1911		
09	ICAL	TOX 1.0PPM	12/02/03	1938		
10	ICAL	TC 0.5PPM	12/02/03	2221		
11	WG4605-BLANK	WG4605-1	12/03/03	0131	18.49	3.71
12	WG4605-LCS	WG4605-2	12/03/03	0158	18.49	3.69
13	WG4605-LCSD	WG4605-3	12/03/03	0225	18.48	3.69
14	IR1-CSS-01-1	WT2857-1	12/03/03	0657	18.48	3.69
15	IR1-CSS-02-1	WT2857-2	12/03/03	0724	18.49	3.71
16	CV	AB 0.05PPM	12/03/03	0846	18.49	3.69
17						
18						
19						
20						

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Katahdin Analytical Services 3000008

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID: IR1-CSS-01-1103

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: CTO297/318 NAS

Lab Code: KAS PO No.: SDG No.: CTO318-2

Lab Sample ID: WT2857-1 Date(s) Analyzed: 12/03/03 12/03/03

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column(1): RTX-CLPI ID: 0.53(mm) GC Column(2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDE	1	6.75	6.68	6.82	6.94	
	2	8.41	8.34	8.48	8.18	15.2
4,4'-DDT	1	8.33	8.26	8.40	4.36	
	2	10.95	10.88	11.02	8.92	51.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID
IR1-CSS-02-1103

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: CTO297/318 NAS

Lab Code: KAS PO No.: SDG No.: CTO318-2

Lab Sample ID: WT2857-2 Date(s) Analyzed: 12/03/03 12/03/03

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column(1): RTX-CLPI ID: 0.53(mm) GC Column(2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDE	1	6.75	6.68	6.82	48.1	
	2	8.41	8.34	8.48	57.2	15.9
Dieldrin	1	7.20	7.12	7.26	4.99	
	2	8.72	8.68	8.82	9.47	47.3
4,4'-DDT	1	8.32	8.26	8.40	17.8	
	2	10.95	10.88	11.02	35.1	49.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

Katahdin Analytical Services 3000014

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC08 Calibration Date(s): 12/02/03 12/02/03

Column: RTX-CLPI ID: 0.53 (mm) Calibration Time(s): 1628 2154

LAB FILE ID: RF0.005: 8TL1050 RF0.01: 8TL1051 RF0.025: 8TL1052
RF0.05: 8TL1049 RF0.1: 8TL1053 RF0.25: 8TL1054

								COEFFICENTS			%RSD	MAX %RSD
COMPOUND	RF0.005	RF0.01	RF0.025	RF0.05	RF0.1	RF0.25	CURVE	A0	A1	A2	OR R^2	OR R^2
alpha-BHC	25070	49798	135200	255880	498670	981190	2ORDR	2e-003	2e-007	1.e-013	0.99957	0.99000
gamma BHC	25430	50591	131870	243020	470860	962210	2ORDR	8e-004	2e-007	9e-014	0.99983	0.99000
Heptachlor	30102	56081	138070	252980	471430	979950	2ORDR	-1e-004	2e-007	8e-014	0.99998	0.99000
beta-BHC	14958	27524	67992	119640	234920	529420	2ORDR	-8e-004	4e-007	1e-013	0.99988	0.99000
Aldrin	23671	45502	120510	225670	428240	913050	2ORDR	3e-004	2.e-007	8e-014	0.99998	0.99000
delta-BHC	21615	42658	119900	229860	459280	979910	2ORDR	1e-003	2e-007	7e-014	0.99981	0.99000
Heptachlor Epoxide	25694	48439	117600	213940	392900	835550	2ORDR	-6e-004	2e-007	1.e-013	0.99996	0.99000
Endosulfan I	25178	47599	117970	218520	400160	853050	2ORDR	-4e-004	2e-007	1e-013	0.99998	0.99000
4,4'-DDE	19697	39095	103700	203800	389980	881630	2ORDR	3e-004	2e-007	6e-014	0.99999	0.99000
Dieldrin	22274	42730	107870	207250	383700	847980	2ORDR	-2e-004	2e-007	8e-014	0.99997	0.99000
Endrin	20010	38936	98576	185760	345470	741850	2ORDR	-5e-005	2e-007	1e-013	0.99999	0.99000
4,4'-DDD	12966	26706	70884	142500	278000	630030	2ORDR	7e-004	3e-007	1e-013	0.99998	0.99000
Endosulfan II	18148	35139	86179	161020	295340	658690	2ORDR	-8e-004	3.e-007	1e-013	0.99991	0.99000
4,4'-DDT	16027	31902	81546	156440	301920	675660	2ORDR	1e-004	3.e-007	1.e-013	0.99999	0.99000
Endrin Aldehyde	14078	27838	65782	121050	224670	494590	2ORDR	-8e-004	4e-007	2e-013	0.99994	0.99000
Endosulfan sulfate	8825	17294	39243	72221	131340	283680	2ORDR	-1e-003	7e-007	8e-013	0.99993	0.99000
Methoxychlor	12970	25006	59329	114430	208310	474240	2ORDR	-9e-004	4e-007	2.e-013	0.99987	0.99000
Toxaphene	3566	7396	13700	25750	64295	231010	2ORDR	-2e-002	4e-005	2e-011	0.99998	0.99000
(2)	7245	15760	28996	54078	128560	424400	2ORDR	-2e-002	2e-005	1e-011	0.99999	0.99000
(3)	7372	16294	30493	56829	135170	445400	2ORDR	-2e-002	2e-005	1e-011	0.99999	0.99000
(4)	9047	20677	40113	76304	179730	578290	2ORDR	-8e-003	1e-005	8e-012	1.00000	0.99000
(5)	9003	20451	38111	72273	172540	556520	2ORDR	-9e-003	1e-005	9e-012	0.99999	0.99000
(6)	10105	24144	46884	89785	218270	716120	2ORDR	1e-003	1.e-005	5e-012	0.99999	0.99000
(7)	8162	19262	37618	71903	174300	577660	2ORDR	-2e-003	1e-005	7e-012	0.99999	0.99000
(8)	11789	28713	56554	107100	248880	799270	2ORDR	-9e-003	9e-006	4e-012	1.00000	0.99000
(9)	8003	20006	40364	78772	196580	659050	2ORDR	1e-002	1e-005	5e-012	0.99998	0.99000
(10)	6102	15424	30998	58871	147220	497590	2ORDR	8.e-003	2e-005	9e-012	0.99998	0.99000
alpha-Chlordane	25582	47556	114470	213180	395060	894160	2ORDR	-1e-003	2e-007	6e-014	0.99991	0.99000
gamma-Chlordane	24671	45714	111930	210630	392870	908250	2ORDR	-9e-004	2e-007	4e-014	0.99991	0.99000
Endrin Ketone	14935	29023	69959	133380	240690	527000	2ORDR	-6e-004	4e-007	2e-013	0.99991	0.99000
Tetrachloro-m-Xylene	20993	37842	94986	171900	329980	759550	2ORDR	-9e-004	3e-007	6e-014	0.99992	0.99000
Decachlorobiphenyl	18004	32851	71253	125510	222940	485160	2ORDR	-2e-003	4e-007	3e-013	0.99971	0.99000

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC08 Calibration Date(s): 12/02/03 12/02/03

Column: RTX-CLPII ID: 0.53 (mm) Calibration Time(s): 1628 2154

LAB FILE ID: RF0.005: 8TL2050 RF0.01: 8TL2051 RF0.025: 8TL2052
RF0.05: 8TL2049 RF0.1: 8TL2053 RF0.25: 8TL2054

								COEFFICENTS			%RSD	MAX %RSD
COMPOUND	RF0.005	RF0.01	RF0.025	RF0.05	RF0.1	RF0.25	CURVE	A0	A1	A2	OR R^2	OR R^2
alpha-BHC	16845	35648	102530	194940	386890	855170	2ORDR	1e-003	2e-007	7.e-014	0.99991	0.99000
gamma BHC	15789	33086	90883	165570	331080	765250	2ORDR	2e-004	3e-007	6e-014	0.99992	0.99000
Heptachlor	17328	33696	85636	160380	308900	685270	2ORDR	-8e-005	3e-007	1e-013	0.99998	0.99000
beta-BHC	9758	18628	46900	85494	166660	370180	2ORDR	-3e-004	5e-007	4e-013	0.99995	0.99000
Aldrin	14986	30581	82872	157790	309720	682760	2ORDR	6e-004	3e-007	1e-013	0.99995	0.99000
delta-BHC	14773	30397	86214	172090	342810	784640	2ORDR	1.e-003	3e-007	6.e-014	0.99995	0.99000
Heptachlor Epoxide	15130	29962	75666	140240	268450	584780	2ORDR	-6e-005	3e-007	2e-013	0.99998	0.99000
Endosulfan I	12893	25420	64299	120900	232130	512560	2ORDR	-3e-005	4e-007	2.e-013	0.99999	0.99000
4,4'-DDE	11996	24073	63241	122060	241630	545940	2ORDR	5e-004	4e-007	1e-013	0.99996	0.99000
Dieldrin	11113	22342	59491	115560	230010	515130	2ORDR	7.e-004	4.e-007	2e-013	0.99994	0.99000
Endrin	9137	17956	48448	93398	183860	412430	2ORDR	5e-004	5.e-007	3e-013	0.99996	0.99000
4,4'-DDD	6556	13321	36064	74797	153140	366190	2ORDR	1e-003	6e-007	1e-013	0.99992	0.99000
Endosulfan II	9015	18174	46103	86624	170070	377480	2ORDR	2e-004	5e-007	3e-013	0.99996	0.99000
4,4'-DDT	7160	14440	37647	74672	152240	358060	2ORDR	7e-004	6e-007	2e-013	0.99994	0.99000
Endrin Aldehyde	6977	13688	33569	61924	122490	275130	2ORDR	-2e-004	8e-007	6e-013	0.99994	0.99000
Endosulfan sulfate	6263	12580	31875	60142	120210	275980	2ORDR	1.e-004	8e-007	4e-013	0.99996	0.99000
Methoxychlor	4497	8956	21520	39028	76290	169430	2ORDR	-4e-004	1e-006	2e-012	0.99993	0.99000
Toxaphene	2226	5470	10409	20893	51309	178440	2ORDR	4e-003	5e-005	6e-011	0.99999	0.99000
(2)	2062	5221	9993	20620	52407	190890	2ORDR	1e-002	5e-005	3e-011	0.99998	0.99000
(3)	5224	13114	25750	51260	125900	414980	2ORDR	1e-002	2e-005	1e-011	0.99998	0.99000
(4)	1980	5278	10643	21776	57072	208970	2ORDR	3e-002	4e-005	3e-011	0.99996	0.99000
(5)	3476	9193	19171	39342	99422	346240	2ORDR	3e-002	2e-005	2e-011	0.99998	0.99000
(6)	1890	5326	11460	23968	65635	249730	2ORDR	5e-002	4e-005	1e-011	0.99990	0.99000
(7)	4596	12101	24966	49541	121730	412880	2ORDR	1e-002	2e-005	1e-011	0.99999	0.99000
(8)	2858	7765	16367	34039	92529	335420	2ORDR	4e-002	3e-005	1e-011	0.99989	0.99000
(9)	2737	7152	15246	31307	84177	307140	2ORDR	4e-002	3e-005	1e-011	0.99992	0.99000
(10)	2719	7105	15103	30818	79918	292020	2ORDR	3e-002	3.e-005	1e-011	0.99997	0.99000
alpha-Chlordane	14139	27803	70062	129530	252440	564520	2ORDR	-2e-004	4e-007	1e-013	0.99996	0.99000
gamma-Chlordane	14536	28826	73170	136560	268110	598720	2ORDR	4e-005	3e-007	1e-013	0.99996	0.99000
Endrin Ketone	8688	17538	44847	84455	163270	359340	2ORDR	2e-004	5e-007	4e-013	0.99998	0.99000
Tetrachloro-m-Xylene	14044	26316	65241	118220	231230	535280	2ORDR	-7e-004	4e-007	1e-013	0.99993	0.99000
Decachlorobiphenyl	12231	23371	53119	92039	172030	378870	2ORDR	-2e-003	5e-007	4e-013	0.99982	0.99000

FORM VI SV

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC08 Calibration Date: 12/02/03 Time: 1911

Lab File ID: 8TL1048 Init. Calib. Date(s): 12/02/03 12/02/03

Init. Calib. Times: 1628 2154

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Endosulfan I	5.23e-002	5.e-002	4532000.0	0.01	4.60	15.00	2RDR
gamma BHC	4.77e-002	5.e-002	4846000.0	0.01	-4.60	15.00	2RDR
beta-BHC	4.89e-002	5.e-002	2410000.0	0.01	-2.20	15.00	2RDR
delta-BHC	5.08e-002	5.e-002	4859000.0	0.01	1.60	15.00	2RDR
Heptachlor	5.06e-002	5.e-002	5186000.0	0.01	1.20	15.00	2RDR
Aldrin	5.01e-002	5.e-002	4579000.0	0.01	0.20	15.00	2RDR
Heptachlor Epoxide	5.18e-002	5.e-002	4421000.0	0.01	3.60	15.00	2RDR
gamma-Chlordane	5.31e-002	5.e-002	4386000.0	0.01	6.20	15.00	2RDR
alpha-Chlordane	5.32e-002	5.e-002	4454000.0	0.01	6.40	15.00	2RDR
4,4'-DDE	5.19e-002	5.e-002	4209000.0	0.01	3.80	15.00	2RDR
alpha-BHC	4.95e-002	5.e-002	5353000.0	0.01	-1.00	15.00	2RDR
Dieldrin	5.25e-002	5.e-002	4284000.0	0.01	5.00	15.00	2RDR
Endrin	5.48e-002	5.e-002	4040000.0	0.01	9.60	15.00	2RDR
4,4'-DDD	5.18e-002	5.e-002	2964000.0	0.01	3.60	15.00	2RDR
Endosulfan II	5.36e-002	5.e-002	3377000.0	0.01	7.20	15.00	2RDR
4,4'-DDT	5.16e-002	5.e-002	3250000.0	0.01	3.20	15.00	2RDR
Endrin Aldehyde	5.37e-002	5.e-002	2575000.0	0.01	7.40	15.00	2RDR
Methoxychlor	5.3e-002	5.e-002	2345000.0	0.01	6.00	15.00	2RDR
Endosulfan sulfate	5.19e-002	5.e-002	1479000.0	0.01	3.80	15.00	2RDR
Endrin Ketone	5.49e-002	5.e-002	2841000.0	0.01	9.80	15.00	2RDR

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC08 Calibration Date: 12/02/03 Time: 1911

Lab File ID: 8TL2048 Init. Calib. Date(s): 12/02/03 12/02/03

Init. Calib. Times: 1628 2154

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
4,4'-DDE	5.3e-002	5.e-002	2632100.0	0.01	6.00	15.00	2RDR
gamma BHC	5.03e-002	5.e-002	3415700.0	0.01	0.60	15.00	2RDR
beta-BHC	5.26e-002	5.e-002	1833600.0	0.01	5.20	15.00	2RDR
delta-BHC	5.49e-002	5.e-002	3824100.0	0.01	9.80	15.00	2RDR
Heptachlor	5.38e-002	5.e-002	3477300.0	0.01	7.60	15.00	2RDR
Aldrin	5.23e-002	5.e-002	3361800.0	0.01	4.60	15.00	2RDR
Heptachlor Epoxide	5.38e-002	5.e-002	3045700.0	0.01	7.60	15.00	2RDR
gamma-Chlordane	5.31e-002	5.e-002	2953100.0	0.01	6.20	15.00	2RDR
alpha-Chlordane	5.35e-002	5.e-002	2812900.0	0.01	7.00	15.00	2RDR
Endosulfan I	5.4e-002	5.e-002	2628200.0	0.01	8.00	15.00	2RDR
alpha-BHC	5.09e-002	5.e-002	4071000.0	0.01	1.80	15.00	2RDR
Dieldrin	5.3e-002	5.e-002	2503600.0	0.01	6.00	15.00	2RDR
Endrin	5.58e-002	5.e-002	2110100.0	0.01	11.60	15.00	2RDR
4,4'-DDD	5.31e-002	5.e-002	1619100.0	0.01	6.20	15.00	2RDR
Endosulfan II	5.41e-002	5.e-002	1908200.0	0.01	8.20	15.00	2RDR
4,4'-DDT	5.25e-002	5.e-002	1604500.0	0.01	5.00	15.00	2RDR
Endrin Aldehyde	5.44e-002	5.e-002	1377300.0	0.01	8.80	15.00	2RDR
Endosulfan sulfate	5.29e-002	5.e-002	1300500.0	0.01	5.80	15.00	2RDR
Methoxychlor	5.35e-002	5.e-002	853200.00	0.01	7.00	15.00	2RDR
Endrin Ketone	5.55e-002	5.e-002	1892000.0	0.01	11.00	15.00	2RDR

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC08 Calibration Date: 12/03/03 Time: 0846

Lab File ID: 8TL1078 Init. Calib. Date(s): 12/02/03 12/02/03

Init. Calib. Times: 1628 2154

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	4.36e-002	5.e-002	4766700.0	0.01	-12.80	15.00	2RDR	
gamma BHC	4.21e-002	5.e-002	4320600.0	0.01	-15.80	15.00	2RDR	<-
Heptachlor	4.37e-002	5.e-002	4539100.0	0.01	-12.60	15.00	2RDR	
beta-BHC	4.43e-002	5.e-002	2193000.0	0.01	-11.40	15.00	2RDR	
Aldrin	4.31e-002	5.e-002	3983500.0	0.01	-13.80	15.00	2RDR	
delta-BHC	4.5e-002	5.e-002	4324600.0	0.01	-10.00	15.00	2RDR	
Heptachlor Epoxide	4.37e-002	5.e-002	3787600.0	0.01	-12.60	15.00	2RDR	
Endosulfan I	4.31e-002	5.e-002	3794500.0	0.01	-13.80	15.00	2RDR	
4,4'-DDE	4.45e-002	5.e-002	3631500.0	0.01	-11.00	15.00	2RDR	
Dieldrin	4.43e-002	5.e-002	3651600.0	0.01	-11.40	15.00	2RDR	
Endrin	4.41e-002	5.e-002	3302200.0	0.01	-11.80	15.00	2RDR	
4,4'-DDD	4.48e-002	5.e-002	2571500.0	0.01	-10.40	15.00	2RDR	
Endosulfan II	4.51e-002	5.e-002	2873500.0	0.01	-9.80	15.00	2RDR	
4,4'-DDT	4.37e-002	5.e-002	2770900.0	0.01	-12.60	15.00	2RDR	
Endrin Aldehyde	4.41e-002	5.e-002	2145700.0	0.01	-11.80	15.00	2RDR	
Endosulfan sulfate	4.69e-002	5.e-002	1349100.0	0.01	-6.20	15.00	2RDR	
Methoxychlor	4.63e-002	5.e-002	2067500.0	0.01	-7.40	15.00	2RDR	
alpha-Chlordane	4.43e-002	5.e-002	3757000.0	0.01	-11.40	15.00	2RDR	
gamma-Chlordane	4.48e-002	5.e-002	3733500.0	0.01	-10.40	15.00	2RDR	
Endrin Ketone	4.52e-002	5.e-002	2372400.0	0.01	-9.60	15.00	2RDR	
Tetrachloro-m-Xylene	4.67e-002	5.e-002	3239800.0	0.01	-6.60	15.00	2RDR	
Decachlorobiphenyl	4.53e-002	5.e-002	2259700.0	0.01	-9.40	15.00	2RDR	

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC08 Calibration Date: 12/03/03 Time: 0846

Lab File ID: 8TL2078 Init. Calib. Date(s): 12/02/03 12/02/03

Init. Calib. Times: 1628 2154

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	4.8e-002	5.e-002	3844000.0	0.01	-4.00	15.00	2RDR
gamma BHC	4.95e-002	5.e-002	3357800.0	0.01	-1.00	15.00	2RDR
Heptachlor	5.04e-002	5.e-002	3269600.0	0.01	0.80	15.00	2RDR
beta-BHC	4.83e-002	5.e-002	1690700.0	0.01	-3.40	15.00	2RDR
Aldrin	4.82e-002	5.e-002	3111800.0	0.01	-3.60	15.00	2RDR
delta-BHC	4.97e-002	5.e-002	3470000.0	0.01	-0.60	15.00	2RDR
Heptachlor Epoxide	4.9e-002	5.e-002	2792900.0	0.01	-2.00	15.00	2RDR
Endosulfan I	4.93e-002	5.e-002	2411700.0	0.01	-1.40	15.00	2RDR
4,4'-DDE	4.94e-002	5.e-002	2459900.0	0.01	-1.20	15.00	2RDR
Dieldrin	4.92e-002	5.e-002	2328500.0	0.01	-1.60	15.00	2RDR
Endrin	4.92e-002	5.e-002	1871300.0	0.01	-1.60	15.00	2RDR
4,4'-DDD	5.04e-002	5.e-002	1536200.0	0.01	0.80	15.00	2RDR
Endosulfan II	4.98e-002	5.e-002	1763000.0	0.01	-0.40	15.00	2RDR
4,4'-DDT	4.85e-002	5.e-002	1483900.0	0.01	-3.00	15.00	2RDR
Endrin Aldehyde	4.96e-002	5.e-002	1260800.0	0.01	-0.80	15.00	2RDR
Endosulfan sulfate	5.13e-002	5.e-002	1262200.0	0.01	2.60	15.00	2RDR
Methoxychlor	5.07e-002	5.e-002	811260.00	0.01	1.40	15.00	2RDR
alpha-Chlordane	4.93e-002	5.e-002	2603900.0	0.01	-1.40	15.00	2RDR
gamma-Chlordane	4.87e-002	5.e-002	2723100.0	0.01	-2.60	15.00	2RDR
Endrin Ketone	4.98e-002	5.e-002	1706800.0	0.01	-0.40	15.00	2RDR
Tetrachloro-m-Xylene	5.2e-002	5.e-002	2489900.0	0.01	4.00	15.00	2RDR
Decachlorobiphenyl	4.97e-002	5.e-002	1847300.0	0.01	-0.60	15.00	2RDR

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 12/02/03 12/02/03

Client Sample ID (PEM): EVAL Date Analyzed :12/02/03
Lab Sample ID (PEM): EVAL Time Analyzed :1601

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	8TL1041.d	1.66	2.13

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 12/02/03 12/02/03

Client Sample ID (PEM): EVAL
Lab Sample ID (PEM): EVAL

Date Analyzed :12/02/03
Time Analyzed :1601

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	8TL2041.d	1.70	1.39

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

ORGANIC EXTRACTIONS LOG - SOIL PESTICIDE/PCB

Extraction Method: SW846 3550 (sonication)_____ SW846 3540 (soxhlet)_____ SW846 3545 (ase) ✓

Analytical Method: SW846 8081 ✓ SW846 8082 ✓ CLP OLM03.1_____ CLP OLM04.2_____

Date QC Started: 11/17/03 QC Expiration Date: 11/31/03 QC Batch ID_____

Surrogate ID: GC0028 Spike ID: PestGC/A1828 Spike ID: PCB - GC0038

Solvent Lot # Hexane: Y06E24 Solvent Lot #_____

Date Extracted	Ext. Init.	Sample ID	Initial Vol.	Surr. Vol.	Spike Vol.	Fraction		Final Vol.	Date Conc.	Tray Location	Initials	Clean-Up				Comments
						Pest	PCB					GPC	Flor.	Acid Wash	Other	
11/17/03	AZ	WG4605-1 WG4606-1	15g	0.5ml	NR	✓	✓	5ml	11/18/03	PP544 F12	AZ			✓		R16286 - PEST R16287 - PCB
↓	↓	WG4605-2	↓	↓	0.5W	✓		↓	↓	F1	↓					
		↓ -3			↓	✓				F2						
		WG4606-2					✓			F3				✓		
↓	↓	↓ -3	↓	↓	↓		✓	↓	↓	F4	↓			✓		

QAEX087

Katahdin Analytical Services 30

000008

000029

Date Extracted	Ext. Init.	Sample ID	Initial Vol.	Surr. Vol.	Spike Vol.	Fraction		Final Vol.	Date Conc.	Tray Location	Initials	Clean-Up				Comments
						Pest	PCB					GPC	Flor.	Acid Wash	Other	
11/17/03	AZ	WT2857-1	15g	0.5ml	NR	✓	✓	5ml	11/18/03	PP544 F5	AZ			✓		
		-2				✓	✓			F6				✓		
		WT2868-10				✓	✓			F7				✓		
		WT2875-1				✓	✓			F8				✓		
		-2				✓	✓			F9				✓		
		-3				✓	✓			F10				✓		
		-4				✓	✓			F11				✓		
		-5				✓	✓			PP545 A1				✓		
		-6				✓	✓			A2				✓		
		WT2887-1					✓			A3				✓		
		WT2901-1					✓			A4				✓		

QAEX087

0000082

Katahdin Analytical Services 3000030

FORM 2
SOIL SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

GC Column(1): RTX-CLPI ID: 0.53 (mm) GC Column(2): RTX-CLPII ID: 0.53 (mm)

	CLIENT SAMPLE ID	LAB SAMPLE ID	TCX1 REC#	TCX2 REC#	DCB1 REC#	DCB2 REC#	OTHR (1)	OTHR (2)	TOT OUT
01	WG4606-BLANK	WG4606-1	66	69	58	63			0
02	WG4606-LCS	WG4606-2	80	82	71	73			0
03	WG4606-LCSD	WG4606-3	70	74	68	69			0
04	IR1-CSS-01-1103	WT2857-1	67	73	60	64			0
05	IR1-CSS-02-1103	WT2857-2	51	55	48*	53*			2
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									

ADVISORY QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene (44-103)
S2 (DCB) = Decachlorobiphenyl (56-107)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 4
PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG4606-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Lab Sample ID: WG4606-1 Lab File ID: 8TK3116

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SW846 3545

Sulfur Cleanup: (Y/N) N Date Extracted: 11/17/03

Date Analyzed (1): 11/21/03 Date Analyzed (2): 11/21/03

Time Analyzed (1): 1607 Time Analyzed (2): 1607

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	WG4606-LCS	WG4606-2	8TK3117	11/21/03	11/21/03
02	WG4606-LCSD	WG4606-3	8TK3118	11/21/03	11/21/03
03	IR1-CSS-01-1103	WT2857-1	8TK3122	11/21/03	11/21/03
04	IR1-CSS-02-1103	WT2857-2	8TK3123	11/21/03	11/21/03
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

COMMENTS: _____

FORM IV PEST

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/17/03
Analysis Date: 11/21/03
Report Date: 11/26/2003
Matrix: SOIL
% Solids: 100

Lab ID: WG4606-1
Client ID: WG4606-Blank
SDG: CTO318-2
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG4606
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	17	1.0	17	17	6.2
11104-28-2	Aroclor-1221	U	17	1.0	17	17	15
11141-16-5	Aroclor-1232	U	17	1.0	17	17	9.1
53469-21-9	Aroclor-1242	U	17	1.0	17	17	6.1
12672-29-6	Aroclor-1248	U	17	1.0	17	17	2.3
11097-69-1	Aroclor-1254	U	17	1.0	17	17	7.2
11096-82-5	Aroclor-1260	U	17	1.0	17	17	3.7
877-09-8	Tetrachloro-m-xylene		69%				
2051-24-3	Decachlorobiphenyl		63%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/17/03
Analysis Date: 11/21/03
Report Date: 11/26/2003
Matrix: SOIL

Lab ID: WG4606-2 & WG4606-3
Client ID: WG4606-LCS & WG4606-LCSD
SDG: CTO318-2
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG4606
Units: ug/Kg

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	RPD LIMIT	QC. LIMITS
Aroclor-1016	167	167	NA	133	131	80	79	2	50	56-116
Aroclor-1260	167	167	NA	133	130	80	78	2	50	59-118

FORM III PEST-2

8TK3117.d & 8TK3118.d

Katahdin Analytical Services 6000006

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 11/19/03 11/20/03

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.33 DCB: 15.31

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	ICAL	AR1660 1.0PP	11/19/03	1606	3.33	15.31
02	ICAL	AR1660 0.05P	11/19/03	1634	3.32	15.28
03	ICAL	AR1660 0.10P	11/19/03	1701	3.32	15.28
04	ICAL	AR1660 0.25P	11/19/03	1728	3.32	15.28
05	ICAL	AR1660 2.5PP	11/19/03	1755	3.32	15.27
06	ICAL	AR1660 10.0P	11/19/03	1822	3.32	15.28
07	IND SOURCE	AR1016 1.0 P	11/19/03	1849		
08	IND SOURCE	AR1260 1.0PP	11/19/03	1916		
09	ICAL	AR1242 1.0PP	11/19/03	1944		
10	ICAL	AR1248 1.0PP	11/19/03	2226		
11	ICAL	AR1254 1.0PP	11/20/03	0109		
12	ICAL	AR1221 1.0PP	11/20/03	0352		
13	ICAL	AR1232 1.0PP	11/20/03	0419		
14	CV	AR1660 1.0PP	11/21/03	0843	3.32	15.27
15	WG4606-BLANK	WG4606-1	11/21/03	1607	3.32	15.27
16	WG4606-LCS	WG4606-2	11/21/03	1634	3.32	15.27
17	WG4606-LCSD	WG4606-3	11/21/03	1701	3.32	15.26
18	IR1-CSS-01-1	WT2857-1	11/21/03	1850	3.32	15.26
19	IR1-CSS-02-1	WT2857-2	11/21/03	1917	3.32	15.27
20	CV	AR1660 1.0PP	11/21/03	2133	3.32	15.26

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.07 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 11/19/03 11/20/03

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.87 DCB: 18.75

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
01	ICAL	AR1660 1.0PP	11/19/03	1606	3.88		18.76	
02	ICAL	AR1660 0.05P	11/19/03	1634	3.87		18.76	
03	ICAL	AR1660 0.10P	11/19/03	1701	3.87		18.75	
04	ICAL	AR1660 0.25P	11/19/03	1728	3.87		18.75	
05	ICAL	AR1660 2.5PP	11/19/03	1755	3.87		18.75	
06	ICAL	AR1660 10.0P	11/19/03	1822	3.87		18.75	
07	IND SOURCE	AR1016 1.0 P	11/19/03	1849				
08	IND SOURCE	AR1260 1.0PP	11/19/03	1916				
09	ICAL	AR1242 1.0PP	11/19/03	1944				
10	ICAL	AR1248 1.0PP	11/19/03	2226				
11	ICAL	AR1254 1.0PP	11/20/03	0109				
12	ICAL	AR1221 1.0PP	11/20/03	0352				
13	ICAL	AR1232 1.0PP	11/20/03	0419				
14	CV	AR1660 1.0PP	11/21/03	0843	3.87		18.74	
15	WG4606-BLANK	WG4606-1	11/21/03	1607	3.87		18.74	
16	WG4606-LCS	WG4606-2	11/21/03	1634	3.87		18.74	
17	WG4606-LCSD	WG4606-3	11/21/03	1701	3.87		18.74	
18	IR1-CSS-01-1	WT2857-1	11/21/03	1850	3.87		18.74	
19	IR1-CSS-02-1	WT2857-2	11/21/03	1917	3.87		18.74	
20	CV	AR1660 1.0PP	11/21/03	2133	3.87		18.74	

QC LIMITS

TCX = Tetrachloro-m-xylene (+/- 0.07 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Katahdin Analytical Services 6000008

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE ID

IR1-CSS-01-1103

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: CTO297/318 NAS

Lab Code: KAS PO No.: SDG No.: CTO318-2

Lab Sample ID: WT2857-1 Date(s) Analyzed: 11/21/03 11/21/03

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column(1): RTX-CLPI ID: 0.53(mm) GC Column(2): RTX-CLPII ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.22	8.13	8.27	24.6		
Aroclor-1260	2	8.75	8.72	8.86	19.1		
	3	9.35	9.32	9.46	13.2		
COLUMN 1	4	9.58	9.56	9.70	31.0		
	5	14.63	14.60	14.74	30.3	23.6	
	1	11.21	11.21	11.35	25.1		
	2	11.68	11.57	11.71	29.8		
	3	12.81	12.75	12.89	18.0		
COLUMN 2	4	15.09	15.03	15.17	21.7		
	5	17.00	16.94	17.08	32.6	25.5	7.4
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

FORM X PEST-2

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE ID: IR1-CSS-02-1103

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: CTO297/318 NAS

Lab Code: KAS PO No.: SDG No.: CTO318-2

Lab Sample ID: WT2857-2 Date(s) Analyzed: 11/21/03 11/21/03

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column(1): RTX-CLPI ID: 0.53(mm) GC Column(2): RTX-CLPII ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	6.07	6.00	6.14	31.2		
Aroclor-1254	2	6.84	6.77	6.91	39.6		
	3						
COLUMN 1	4						
	5					35.4	
	1	7.57	7.50	7.64	38.0		
	2						
	3						
COLUMN 2	4						
	5					38.0	6.8
	1	8.16	8.13	8.27	126		
Aroclor-1260	2	8.75	8.72	8.86	164		
	3	9.35	9.32	9.46	135		
COLUMN 1	4	9.59	9.56	9.70	194		
	5	14.63	14.60	14.74	177	159	
	1	11.63	11.57	11.71	182		
	2	12.81	12.75	12.89	145		
	3	15.09	15.03	15.17	189		
COLUMN 2	4	17.00	16.94	17.08	171		
	5					172	7.6
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

FORM X PEST-2

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC08 Calibration Date(s): 11/19/03 11/20/03

Column: RTX-CLPI ID: 0.53 (mm) Calibration Time(s): 1606 0419

LAB FILE ID: RF0.05: 8TK3065 RF0.1: 8TK3066 RF0.25: 8TK3067
RF1: 8TK3071 RF2.5: 8TK3068 RF10: 8TK3069

							COEFFICIENTS			%RSD	MAX %RSD	
COMPOUND	RF0.05	RF0.1	RF0.25	RF1	RF2.5	RF10	CURVE	A0	A1	A2	OR R^2	OR R^2	
Aroclor-1016	7073	13012	29699	95350	199740	561440	2ORDR	-3e-002	1e-005	1e-011	0.99997	0.99000	
(2)	12209	22243	48818	145270	320040	878850	2ORDR	-2e-002	6e-006	6e-012	0.99996	0.99000	
(3)	6371	11972	27585	84664	192320	548180	2ORDR	-2e-002	1.e-005	1e-011	0.99997	0.99000	
(4)	9874	18676	44411	138870	314810	885770	2ORDR	-1e-002	6e-006	6e-012	0.99997	0.99000	
(5)	9108	16585	37614	116090	263050	743300	2ORDR	-2e-002	8e-006	8.e-012	0.99997	0.99000	
Aroclor-1221				34920			2ORDR	0.00000	3e-005	0.00000	1.00000	0.99000	<-
(2)				12299			2ORDR	0.00000	8e-005	0.00000	1.00000	0.99000	<-
(3)				14690			2ORDR	0.00000	7e-005	0.00000	1.00000	0.99000	<-
(4)				48235			2ORDR	0.00000	2e-005	0.00000	1.00000	0.99000	<-
Aroclor-1232				68443			2ORDR	0.00000	1e-005	0.00000	1.00000	0.99000	<-
(2)				40224			2ORDR	0.00000	2e-005	0.00000	1.00000	0.99000	<-
(3)				63935			2ORDR	0.00000	2e-005	0.00000	1.00000	0.99000	<-
(4)				49145			2ORDR	0.00000	2.e-005	0.00000	1.00000	0.99000	<-
(5)				28858			2ORDR	0.00000	3e-005	0.00000	1.00000	0.99000	<-
Aroclor-1242	5287	9527	21865	72408	147950	457640	2ORDR	-4e-002	1e-005	2e-011	[illegible]	[illegible]	
(2)	8741	15529	34960	112870	229230	683900	2ORDR	-4e-002	9e-006	8e-01[illegible]	[illegible]	[illegible]	
(3)	7099	13347	30215	103820	219120	685540	2ORDR	-3e-002	1e-005	7.e-012	0.99991	0.99000	
(4)	6542	11882	27179	91851	192240	590110	2ORDR	-3e-002	1e-005	1.e-011	0.99990	0.99000	
(5)	2547	4401	10081	35668	76151	247680	2ORDR	-3e-002	3e-005	5e-011	0.99990	0.99000	
Aroclor-1248	4917	8686	21112	59842	139840	379500	2ORDR	-9e-003	1e-005	3e-011	0.99987	0.99000	
(2)	9573	17077	40400	116350	267250	735610	2ORDR	-1e-002	7e-006	9e-012	0.99992	0.99000	
(3)	11159	20114	48128	138290	320360	887040	2ORDR	-1e-002	6.e-006	6e-012	0.99991	0.99000	
(4)	9310	17156	42203	128650	306560	869380	2ORDR	-5e-003	7e-006	6e-012	0.99991	0.99000	
(5)	6723	12219	29731	88862	211240	614460	2ORDR	-1e-002	1e-005	1e-011	0.99992	0.99000	
Aroclor-1254	9798	18774	47492	133900	301500	895690	2ORDR	-3e-002	7e-006	5e-012	0.99994	0.99000	
(2)	5534	10879	27796	80709	182400	562080	2ORDR	-3e-002	1e-005	1e-011	0.99994	0.99000	
(3)	6793	12893	30730	84984	192420	582730	2ORDR	-4e-002	1e-005	1.e-011	0.99992	0.99000	
(4)	5671	11535	29570	94627	229310	756240	2ORDR	-1e-002	1.e-005	4e-012	0.99997	0.99000	
(5)	4164	7666	18221	53663	124830	404080	2ORDR	-3e-002	2e-005	2e-011	0.99995	0.99000	
Aroclor-1260	8647	14615	33783	112700	263380	782130	2ORDR	-1e-002	8.e-006	6e-012	0.99998	0.99000	
(2)	11747	19330	41861	127740	287830	836420	2ORDR	-3e-002	7e-006	6e-012	0.99997	0.99000	
(3)	10783	19237	42816	132990	309150	896100	2ORDR	-2e-002	7e-006	5e-012	0.99996	0.99000	
(4)	3838	6177	14109	43975	100970	305670	2ORDR	-3e-002	2e-005	4e-011	0.99997	0.99000	
(5)	1569	3241	7589	25354	61444	184570	2ORDR	-1e-003	3e-005	1e-010	0.99995	0.99000	
Tetrachloro-m-xylene	6674	12954	31787	114850	264960	782060	2ORDR	2e-005	2e-007	1e-013	0.99999	0.99000	
Decachlorobiphenyl	4955	9874	22203	69240	155750	454450	2ORDR	-4e-004	3e-007	4e-013	0.99998	0.99000	

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC08 Calibration Date(s): 11/19/03 11/20/03

Column: RTX-CLPII ID: 0.53 (mm) Calibration Time(s): 1606 0419

LAB FILE ID: RF0.05: 8TK4065 RF0.1: 8TK4066 RF0.25: 8TK4067
RF1: 8TK4071 RF2.5: 8TK4068 RF10: 8TK4069

COMPOUND	RF0.05	RF0.1	RF0.25	RF1	RF2.5	RF10	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2	
Aroclor-1016	3865	7617	17221	53172	123220	347720	2ORDR	-1e-002	2e-005	4e-011	0.99994	0.99000	
(2)	3132	6419	14080	42183	102360	289520	2ORDR	-6e-003	2.e-005	5e-011	0.99986	0.99000	
(3)	4229	8451	19017	62753	145990	428940	2ORDR	-9e-003	1e-005	2e-011	0.99997	0.99000	
(4)	4057	7859	16681	50080	112650	324840	2ORDR	-3e-002	2e-005	4.e-011	0.99996	0.99000	
(5)	3792	7423	16580	52383	124720	370820	2ORDR	-1e-002	2e-005	3e-011	0.99995	0.99000	
Aroclor-1221				20295			2ORDR	0.00000	5e-005	0.00000	1.00000	0.99000	<-
(2)				30428			2ORDR	0.00000	3e-005	0.00000	1.00000	0.99000	<-
(3)				21544			2ORDR	0.00000	5e-005	0.00000	1.00000	0.99000	<-
(4)				64756			2ORDR	0.00000	2e-005	0.00000	1.00000	0.99000	<-
Aroclor-1232				36250			2ORDR	0.00000	3e-005	0.00000	1.00000	0.99000	<-
(2)				27438			2ORDR	0.00000	4e-005	0.00000	1.00000	0.99000	<-
(3)				19566			2ORDR	0.00000	5e-005	0.00000	1.00000	0.99000	<-
(4)				21081			2ORDR	0.00000	5e-005	0.00000	1.00000	0.99000	<-
(5)				14861			2ORDR	0.00000	7e-005	0.00000	1.00000	0.99000	<-
Aroclor-1242	2861	5225	13236	42790	90589	283880	2ORDR	-3e-002	2e-005	4e-011	[illegible]		
(2)	4840	8317	19335	61742	127350	408700	2ORDR	-5e-002	2e-005	2e-011	[illegible]		
(3)	3305	5661	13886	46223	100610	332170	2ORDR	-4e-002	2e-005	2e-011	0.99992	0.99000	
(4)	4243	7379	17625	56061	117270	389160	2ORDR	-5e-002	2e-005	2e-011	0.99981	0.99000	
(5)	3351	5946	14516	50169	108620	355680	2ORDR	-3e-002	2e-005	2e-011	0.99992	0.99000	
Aroclor-1248	2466	4501	11233	31156	78567	216990	2ORDR	2e-003	2e-005	1e-010	0.99972	0.99000	
(2)	5306	9406	22605	64925	157620	444460	2ORDR	-8e-003	1e-005	2e-011	0.99985	0.99000	
(3)	3227	5800	14458	42295	104880	307090	2ORDR	-6e-003	2.e-005	4e-011	0.99986	0.99000	
(4)	2491	4457	11127	33030	79382	230960	2ORDR	-1e-002	3e-005	7e-011	0.99991	0.99000	
(5)	2439	3857	8826	27007	67786	205840	2ORDR	-1e-002	3e-005	8.e-011	0.99988	0.99000	
Aroclor-1254	6490	12150	28580	81070	181900	547560	2ORDR	-4e-002	1e-005	1e-011	0.99994	0.99000	
(2)	7207	13797	32432	91453	203830	612770	2ORDR	-4e-002	1.e-005	1e-011	0.99993	0.99000	
(3)	6607	12891	31239	90017	202300	610750	2ORDR	-3e-002	1e-005	1e-011	0.99994	0.99000	
(4)	4329	7912	19406	59770	138070	442840	2ORDR	-3e-002	2e-005	1e-011	0.99996	0.99000	
(5)	5252	10075	25346	74383	169700	526470	2ORDR	-3e-002	1e-005	1e-011	0.99995	0.99000	
Aroclor-1260	6619	12955	28659	91187	211400	613160	2ORDR	-1e-002	1e-005	1e-011	0.99996	0.99000	
(2)	5226	10174	23192	72056	166970	482070	2ORDR	-1e-002	1e-005	2e-011	0.99996	0.99000	
(3)	4459	8884	20344	66094	153060	451230	2ORDR	-1e-002	1e-005	2e-011	0.99998	0.99000	
(4)	7063	14289	33024	108630	254550	740020	2ORDR	-5e-003	8.e-006	7e-012	0.99996	0.99000	
(5)	3020	6296	15273	51782	130630	386870	2ORDR	1e-002	2e-005	3e-011	0.99987	0.99000	
Tetrachloro-m-xylene	3694	7448	18178	66594	162330	493080	2ORDR	2e-004	3e-007	3e-013	0.99996	0.99000	
Decachlorobiphenyl	2725	5597	13676	44717	110560	314770	2ORDR	2e-004	4e-007	9e-013	0.99986	0.99000	

FORM VI SV

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC08 Calibration Date: 11/19/03 Time: 1849

Lab File ID: 8TK3050 Init. Calib. Date(s): 11/19/03 11/20/03

Init. Calib. Times: 1606 0419

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Aroclor-1016	0.9236500	1.0000000	87150.000	0.01	-7.64	15.00	2RDR
(2)	0.8765500	1.0000000	133240.00	0.01	-12.34	15.00	2RDR
(3)	0.8719400	1.0000000	77309.000	0.01	-12.81	15.00	2RDR
(4)	0.8632700	1.0000000	125970.00	0.01	-13.67	15.00	2RDR
(5)	0.8902100	1.0000000	108230.00	0.01	-10.98	15.00	2RDR
Average %D: -11.49							

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC08 Calibration Date: 11/19/03 Time: 1849

Lab File ID: 8TK4050 Init. Calib. Date(s): 11/19/03 11/20/03

Init. Calib. Times: 1606 0419

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Aroclor-1016	0.9158500	1.0000000	51631.000	0.01	-8.42	15.00	2RDR
(2)	0.8694300	1.0000000	40407.000	0.01	-13.06	15.00	2RDR
(3)	0.8543300	1.0000000	56172.000	0.01	-14.57	15.00	2RDR
(4)	0.8513200	1.0000000	44408.000	0.01	-14.87	15.00	2RDR
(5)	0.9934100	1.0000000	54623.000	0.01	-0.66	15.00	2RDR
Average %D: -10.31							

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC08 Calibration Date: 11/19/03 Time: 1916

Lab File ID: 8TK3051 Init. Calib. Date(s): 11/19/03 11/20/03

Init. Calib. Times: 1606 0419

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Aroclor-1260	0.8185800	1.0000000	112740.00	0.01	-18.14	15.00	2RDR	<-
(2)	1.0097000	1.0000000	129090.00	0.01	0.97	15.00	2RDR	
(3)	0.9778800	1.0000000	136470.00	0.01	-2.21	15.00	2RDR	
(4)	0.9007300	1.0000000	43463.000	0.01	-9.93	15.00	2RDR	
(5)	0.6563000	1.0000000	26237.000	0.01	-34.37	15.00	2RDR	<-
Average %D: -12.74								

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC08 Calibration Date: 11/19/03 Time: 1916

Lab File ID: 8TK4051 Init. Calib. Date(s): 11/19/03 11/20/03

Init. Calib. Times: 1606 0419

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Aroclor-1260	0.7713000	1.0000000	74811.000	0.01	-22.87	15.00	2RDR	<-
(2)	1.0357000	1.0000000	77369.000	0.01	3.57	15.00	2RDR	
(3)	1.0044000	1.0000000	68318.000	0.01	0.44	15.00	2RDR	
(4)	0.9407300	1.0000000	107130.00	0.01	-5.93	15.00	2RDR	
(5)	1.0163000	1.0000000	57318.000	0.01	1.63	15.00	2RDR	
Average %D: -4.630								

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC08 Calibration Date: 11/21/03 Time: 0843

Lab File ID: 8TK3102 Init. Calib. Date(s): 11/19/03 11/20/03

Init. Calib. Times: 1606 0419

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Aroclor-1016	0.9687000	1.0000000	90836.000	0.01	-3.13	15.00	2RDR
(2)	0.9002100	1.0000000	136350.00	0.01	-9.98	15.00	2RDR
(3)	0.8935200	1.0000000	79017.000	0.01	-10.65	15.00	2RDR
(4)	0.9134000	1.0000000	132480.00	0.01	-8.66	15.00	2RDR
(5)	1.0119000	1.0000000	121240.00	0.01	1.19	15.00	2RDR
Average %D: -6.250							
Aroclor-1260	0.9282200	1.0000000	108730.00	0.01	-7.18	15.00	2RDR
(2)	0.9613700	1.0000000	125910.00	0.01	-3.86	15.00	2RDR
(3)	0.9546200	1.0000000	132940.00	0.01	-4.54	15.00	2RDR
(4)	0.9685800	1.0000000	43482.000	0.01	-3.14	15.00	2RDR
(5)	0.8855400	1.0000000	23876.000	0.01	-11.45	15.00	2RDR
Average %D: -6.030							
Tetrachloro-m-xylene	1.88e-002	2.e-002	5546000.0	0.01	-6.00	15.00	2RDR
Decachlorobiphenyl	1.93e-002	2.e-002	3398600.0	0.01	-3.50	15.00	2RDR

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC08 Calibration Date: 11/21/03 Time: 0843

Lab File ID: 8TK4102 Init. Calib. Date(s): 11/19/03 11/20/03

Init. Calib. Times: 1606 0419

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Aroclor-1016	0.9365000	1.0000000	52670.000	0.01	-6.35	15.00	2RDR	
(2)	0.8403700	1.0000000	39180.000	0.01	-15.96	15.00	2RDR	<-
(3)	0.9505600	1.0000000	61935.000	0.01	-4.94	15.00	2RDR	
(4)	1.0279000	1.0000000	52486.000	0.01	2.79	15.00	2RDR	
(5)	1.0023000	1.0000000	55070.000	0.01	0.23	15.00	2RDR	
Average %D: -4.850								
Aroclor-1260	0.9513300	1.0000000	90508.000	0.01	-4.87	15.00	2RDR	
(2)	0.9429300	1.0000000	71116.000	0.01	-5.71	15.00	2RDR	
(3)	0.9299700	1.0000000	63695.000	0.01	-7.00	15.00	2RDR	
(4)	0.9012000	1.0000000	103010.00	0.01	-9.88	15.00	2RDR	
(5)	0.8614900	1.0000000	49066.000	0.01	-13.85	15.00	2RDR	
Average %D: -8.260								
Tetrachloro-m-xylene	1.95e-002	2.e-002	3410300.0	0.01	-2.50	15.00	2RDR	
Decachlorobiphenyl	1.72e-002	2.e-002	2122600.0	0.01	-14.00	15.00	2RDR	

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC08 Calibration Date: 11/21/03 Time: 2133

Lab File ID: 8TK3128 Init. Calib. Date(s): 11/19/03 11/20/03

Init. Calib. Times: 1606 0419

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Aroclor-1016	0.9738200	1.0000000	91253.000	0.01	-2.62	15.00	2RDR
(2)	0.8940500	1.0000000	135540.00	0.01	-10.60	15.00	2RDR
(3)	0.8898700	1.0000000	78728.000	0.01	-11.01	15.00	2RDR
(4)	0.8969400	1.0000000	130350.00	0.01	-10.31	15.00	2RDR
(5)	1.0151000	1.0000000	121580.00	0.01	1.51	15.00	2RDR
Average %D: -6.600							
Aroclor-1260	0.9488600	1.0000000	110950.00	0.01	-5.11	15.00	2RDR
(2)	0.9707600	1.0000000	127000.00	0.01	-2.92	15.00	2RDR
(3)	0.9609200	1.0000000	133730.00	0.01	-3.91	15.00	2RDR
(4)	0.9450200	1.0000000	42520.000	0.01	-5.50	15.00	2RDR
(5)	0.8943100	1.0000000	24097.000	0.01	-10.57	15.00	2RDR
Average %D: -5.600							
Tetrachloro-m-xylene	1.87e-002	2.e-002	5504900.0	0.01	-6.50	15.00	2RDR
Decachlorobiphenyl	1.96e-002	2.e-002	3454200.0	0.01	-2.00	15.00	2RDR

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC08 Calibration Date: 11/21/03 Time: 2133

Lab File ID: 8TK4128 Init. Calib. Date(s): 11/19/03 11/20/03

Init. Calib. Times: 1606 0419

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Aroclor-1016	0.9767500	1.0000000	54684.000	0.01	-2.32	15.00	2RDR
(2)	0.8678000	1.0000000	40338.000	0.01	-13.22	15.00	2RDR
(3)	0.9941900	1.0000000	64520.000	0.01	-0.58	15.00	2RDR
(4)	1.1008000	1.0000000	55754.000	0.01	10.08	15.00	2RDR
(5)	1.0751000	1.0000000	58707.000	0.01	7.51	15.00	2RDR
Average %D: 0.2900							
Aroclor-1260	0.9951100	1.0000000	94256.000	0.01	-0.49	15.00	2RDR
(2)	1.0018000	1.0000000	75095.000	0.01	0.18	15.00	2RDR
(3)	0.9872900	1.0000000	67262.000	0.01	-1.27	15.00	2RDR
(4)	0.9567100	1.0000000	108790.00	0.01	-4.33	15.00	2RDR
(5)	0.9350700	1.0000000	53011.000	0.01	-6.49	15.00	2RDR
Average %D: -2.480							
Tetrachloro-m-xylene	2.06e-002	2.e-002	3593400.0	0.01	3.00	15.00	2RDR
Decachlorobiphenyl	1.89e-002	2.e-002	2320000.0	0.01	-5.50	15.00	2RDR

ORGANIC EXTRACTIONS LOG - SOIL PESTICIDE/PCB

Extraction Method: SW846 3550 (sonication)_____ SW846 3540 (soxhlet)_____ SW846 3545 (ase) ✓

Analytical Method: SW846 8081 ✓ SW846 8082 ✓ CLP OLM03.1_____ CLP OLM04.2_____

Date QC Started: 11/17/03 QC Expiration Date: 11/31/03 QC Batch ID_____

Surrogate ID: GC0028 Spike ID: PestGC A 1828 Spike ID: PCB - GC0038

Solvent Lot # Hexane: Y06E24 Solvent Lot #_____

Date Extracted	Ext. Init.	Sample ID	Initial Vol.	Surr. Vol.	Spike Vol.	Fraction		Final Vol.	Date Conc.	Tray Location	Initials	Clean-Up				Comments
						Pest	PCB					GPC	Flor.	Acid Wash	Other	
11/17/03	AZ	WG4605-1 WG4606-1	15g	0.5ml	NR	✓	✓	5ml	11/18/03	PP544 E12	AZ			✓		R16286 - PEST R16287 - PCB
↓	↓	WG4605-2	↓	↓	0.5W	✓		↓	↓	F1	↓					
↓	↓	↓ -3	↓	↓	↓	✓		↓	↓	F2	↓					
↓	↓	WG4606-2	↓	↓	↓		✓	↓	↓	F3	↓			✓		
↓	↓	↓ -3	↓	↓	↓		✓	↓	↓	F4	↓			✓		

QAEX087

Katahdin Analytical Services 600.035

000008

Date Extracted	Ext. Init.	Sample ID	Initial Vol.	Surr. Vol.	Spike Vol.	Fraction		Final Vol.	Date Conc.	Tray Location	Initials	Clean-Up				Comments
						Pest	PCB					GPC	Flor.	Acid Wash	Other	
11/17/03	AZ	WT2857-1	15g	0.5ml	NR	✓	✓	5ml	11/18/03	PP544 F5	AZ			✓		
		-2				✓	✓			F6				✓		
		WT2868-10				✓	✓			F7				✓		
		WT2875-1				✓	✓			F8				✓		
		-2				✓	✓			F9				✓		
		-3				✓	✓			F10				✓		
		-4				✓	✓			F11				✓		
		-5				✓	✓			PP545 A1				✓		
		-6				✓	✓			A2				✓		
		WT2887-1					✓			A3				✓		
		WT2901-1					✓			A4				✓		

QAEX087

0000082

Katahdin Analytical Services 6000036

FORM 2
SOIL FL-PRO SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Level: (low/med) LOW

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 OTP#	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	WG4690-BLANK	WG4690-1	92	71							0
02	WG4690-LCS	WG4690-2	40*	71							1
03	WG4690-LCSD	WG4690-3	31*	68							1
04	WG4643-BLANK	WG4643-1	143*	121*							2
05	WG4643-LCS	WG4643-2	134*	108							1
06	G01-SB-05-1103M	WT2880-2	92	74							0
07	G01-SB-19-1103H	WT2913-1	71	58*							1
08	KW-DUP-05-1103	WT2913-2	76	66							0
09	G01-SB-01-1103L	WT2880-1	101	82							0
10	WG4950-BLANK	WG4950-1	101	86							0
11	WG4950-LCS	WG4950-2	101	86							0
12	WG4950-LCSD	WG4950-3	102	87							0
13	G01-SB-19-1103H	WT2913-1RE	93	79							0
14	KW-DUP-05-1103	WT2913-2RE	98	81							0
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

		QC LIMITS
S1	= n-Triacontane-D62	(60-118)
S2 (OTP)	= O-Terphenyl	(62-109)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG4643-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID: CTL2009 Lab Sample ID: WG4643-1

Instrument ID: GC12 Date Extracted: 11/18/03

Matrix: (soil/water) SOIL Date Analyzed: 12/01/03

Level: (low/med) LOW Time Analyzed: 2347

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG4643-LCS	WG4643-2	CTL2010	12/02/03	0057
02	G01-SB-05-1103M	WT2880-2	CTL2011	12/02/03	0207
03	G01-SB-01-1103L	WT2880-1	CTL2014	12/02/03	0537
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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COMMENTS:

Katahdin Analytical Services 7000004

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG4690-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID: CTL2006 Lab Sample ID: WG4690-1

Instrument ID: GC12 Date Extracted: 11/20/03

Matrix: (soil/water) SOIL Date Analyzed: 12/01/03

Level: (low/med) LOW Time Analyzed: 2017

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG4690-LCS	WG4690-2	CTL2007	12/01/03	2127
02	WG4690-LCSD	WG4690-3	CTL2008	12/01/03	2237
03	G01-SB-19-1103H	WT2913-1	CTL2012	12/02/03	0317
04	KW-DUP-05-1103	WT2913-2	CTL2013	12/02/03	0427
05					
06					
07					
08					
09					
10					
11					
12					
13					
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COMMENTS:

Katahdin Analytical Services 7000005

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG4950-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Lab File ID: CTL2059 Lab Sample ID: WG4950-1

Instrument ID: GC12 Date Extracted: 12/04/03

Matrix: (soil/water) SOIL Date Analyzed: 12/04/03

Level:(low/med) LOW Time Analyzed: 1519

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG4950-LCS	WG4950-2	CTL2060	12/04/03	1628
02	WG4950-LCSD	WG4950-3	CTL2061	12/04/03	1739
03	G01-SB-19-1103H	WT2913-1RE	CTL2062	12/04/03	1849
04	KW-DUP-05-1103	WT2913-2RE	CTL2063	12/04/03	1959
05					
06					
07					
08					
09					
10					
11					
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30					

COMMENTS:

Katahdin Analytical Services 7000006

FORM 8
FL-PRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

GC Column: ZB-1 ID: 0.53 (mm) Init. Calib. Date(s): 01/17/03 01/17/03

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.34 S2 : 24.66

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ICAL	FL PRO 5 UG/	01/17/03	1201	18.34	24.65
02	ICAL	FL PRO 20 UG	01/17/03	1311	18.34	24.66
03	ICAL	FL PRO 50 UG	01/17/03	1422	18.34	24.65
04	ICAL	FL PRO 100UG	01/17/03	1532	18.34	24.65
05	ICAL	FL PRO 200UG	01/17/03	1643	18.34	24.66
06	INDSOURCE	FL PRO IND	01/17/03	1753	18.34	24.65
07	CV	FLPRO 50 UG/	12/01/03	1756	18.22	24.45
08	WG4690-BLANK	WG4690-1	12/01/03	2017	18.23	24.46
09	WG4690-LCS	WG4690-2	12/01/03	2127	18.22	24.45
10	WG4690-LCSD	WG4690-3	12/01/03	2237	18.23	24.45
11	WG4643-BLANK	WG4643-1	12/01/03	2347	18.23	24.46
12	WG4643-LCS	WG4643-2	12/02/03	0057	18.23	24.46
13	G01-SB-05-11	WT2880-2	12/02/03	0207	18.23	24.46
14	G01-SB-19-11	WT2913-1	12/02/03	0317	18.23	24.45
15	KW-DUP-05-11	WT2913-2	12/02/03	0427	18.23	24.45
16	G01-SB-01-11	WT2880-1	12/02/03	0537	18.23	24.45
17	CV	FLPRO 50 UG/	12/02/03	1017	18.22	24.46
18	CV	FLPRO 50 UG/	12/04/03	1042	18.23	24.46
19	WG4950-BLANK	WG4950-1	12/04/03	1519	18.23	24.47
20	WG4950-LCS	WG4950-2	12/04/03	1628	18.23	24.46

QC LIMITS
S1 = O-Terphenyl (+/- 0.37 MINUTES)
S2 = n-Triacontane-D62 (+/- 0.49 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Katahdin Analytical Services 7000013

FORM 8
FL-PRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

GC Column: ZB-1 ID: 0.53 (mm) Init. Calib. Date(s): 01/17/03 01/17/03

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.34 S2 : 24.66

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	WG4950-LCSD	WG4950-3	12/04/03	1739	18.23	24.46
02	G01-SB-19-11	WT2913-1RE	12/04/03	1849	18.23	24.47
03	KW-DUP-05-11	WT2913-2RE	12/04/03	1959	18.23	24.45
04	CV	FLPRO 50 UG/	12/04/03	2327	18.23	24.46
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

		QC LIMITS
S1	= O-Terphenyl	(+/- 0.37 MINUTES)
S2	= n-Triacontane-D62	(+/- 0.49 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 6
FL-PRO INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC12 Calibration Date(s): 01/17/03 01/17/03

Column: ZB-1 ID: 0.53 (mm) Calibration Time(s): 1201 1643

LAB FILE ID: RF5: CTA2027 RF20: CTA2028 RF50: CTA2029
RF100: CTA2030 RF200: CTA2031

COMPOUND	RF5	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
C-8	30443	111280	287150	546300	1055300	LINR	-1.6251	2e-004	0.99940	0.99000
C-10	28265	112320	291000	551110	1070000	LINR	-1.4123	2e-004	0.99943	0.99000
C-16	29995	112160	292230	551220	1074300	LINR	-1.4416	2e-004	0.99948	0.99000
FL-PRO peaks C8-C40	475570	1855000	4856000	9172000	2e+007	LINR	-19.110	2e-004	0.99960	0.99000
C-38	23315	99889	271200	510360	1012500	LINR	-0.5519	2.e-004	0.99962	0.99000
C-40	21542	96187	261750	500590	1003300	LINR	3e-002	2.e-004	0.99980	0.99000
C-32	27019	106780	282660	530760	1044300	LINR	-1.0800	2e-004	0.99955	0.99000
C-34	26442	108550	286650	537800	1065800	LINR	-0.8739	2e-004	0.99962	0.99000
O-Terphenyl	6717.00	6775.20	7016.00	7313.50	6707.30	AVRG			6905.81	3.765	40.000
n-Triacontane-D62	4540.10	4607.00	4664.40	4551.10	4527.40	AVRG			4578.02	1.247	40.000
C-12	37592	115180	294940	555130	1075400	LINR	-2.1298	2e-004	0.99940	0.99000
C-14	27978	111910	289900	549780	1071000	LINR	-1.2962	2e-004	0.99950	0.99000
C-18	28594	110380	290240	548490	1071100	LINR	-1.2458	2e-004	0.99951	0.99000
C-20	28924	110770	290060	547280	1069800	LINR	-1.2883	2e-004	0.99952	0.99000
C-22	28774	111630	291270	550460	1078200	LINR	-1.2129	2e-004	0.99957	0.99000
C-24	27991	109710	287570	542220	1064800	LINR	-1.1401	2e-004	0.99958	0.99000
C-26	27831	110560	289900	545930	1074100	LINR	-1.0918	2e-004	0.99959	0.99000
C-28	27418	109610	287230	539870	1065000	LINR	-1.0495	2e-004	0.99960	0.99000
C-30	28272	112760	280560	533460	1069400	LINR	-0.8100	2e-004	0.99983	0.99000
C-36	25171	105350	281740	531200	1050100	LINR	-0.7420	2e-004	0.99962	0.99000

FORM VI FL-PRO

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC12 Calibration Date: 12/01/03 Time: 1756

Lab File ID: CTL2004 Init. Calib. Date(s): 01/17/03 01/17/03

Init. Calib. Times: 1201 1643

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
C-24	40.561000	50.000000	4439.0000	0.01	-18.88	25.00	LINR	
C-8	41.950000	50.000000	4599.3000	0.01	-16.10	25.00	LINR	
C-10	41.737000	50.000000	4619.4000	0.01	-16.53	25.00	LINR	
C-12	42.268000	50.000000	4758.8000	0.01	-15.46	25.00	LINR	
C-14	41.761000	50.000000	4613.2000	0.01	-16.48	25.00	LINR	
C-16	40.895000	50.000000	4546.3000	0.01	-18.21	25.00	LINR	
C-18	41.227000	50.000000	4550.2000	0.01	-17.55	25.00	LINR	
C-28	40.998000	50.000000	4475.3000	0.01	-18.00	25.00	LINR	
C-20	40.998000	50.000000	4523.0000	0.01	-18.00	25.00	LINR	
C-22	40.734000	50.000000	4521.7000	0.01	-18.53	25.00	LINR	
C-26	40.542000	50.000000	4470.1000	0.01	-18.92	25.00	LINR	
C-30	41.911000	50.000000	4553.7000	0.01	-16.18	25.00	LINR	
C-36	39.231000	50.000000	4200.2000	0.01	-21.54	25.00	LINR	
FL-PRO peaks C8-C40	685.93000	850.00000	4397.1000	0.01	-19.30	25.00	LINR	
C-38	36.956000	50.000000	3801.8000	0.01	-26.09	25.00	LINR	<-
C-40	32.778000	50.000000	3291.2000	0.01	-34.44	25.00	LINR	<-
C-32	41.065000	50.000000	4400.4000	0.01	-17.87	25.00	LINR	
C-34	40.318000	50.000000	4387.8000	0.01	-19.36	25.00	LINR	
O-Terphenyl	6905.8000	5148.2000	5148.2000	0.01	-25.45	25.00	AVRG	<-
n-Triacontane-D62	4578.0000	3985.5000	3985.5000	0.01	-12.94	25.00	AVRG	

FORM VII PEST

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC12 Calibration Date: 12/02/03 Time: 1017

Lab File ID: CTL2018 Init. Calib. Date(s): 01/17/03 01/17/03

Init. Calib. Times: 1201 1643

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
C-24	42.140000	50.000000	4607.0000	0.01	-15.72	25.00	LINR
C-8	41.572000	50.000000	4559.4000	0.01	-16.86	25.00	LINR
C-10	43.515000	50.000000	4809.7000	0.01	-12.97	25.00	LINR
C-12	44.440000	50.000000	4991.6000	0.01	-11.12	25.00	LINR
C-14	42.250000	50.000000	4665.5000	0.01	-15.50	25.00	LINR
C-16	42.195000	50.000000	4685.9000	0.01	-15.61	25.00	LINR
C-18	42.432000	50.000000	4679.3000	0.01	-15.14	25.00	LINR
C-28	42.933000	50.000000	4681.2000	0.01	-14.13	25.00	LINR
C-20	42.242000	50.000000	4656.0000	0.01	-15.52	25.00	LINR
C-22	42.214000	50.000000	4681.2000	0.01	-15.57	25.00	LINR
C-26	42.322000	50.000000	4661.2000	0.01	-15.36	25.00	LINR
C-30	43.589000	50.000000	4732.6000	0.01	-12.82	25.00	LINR
C-36	44.112000	50.000000	4713.1000	0.01	-11.78	25.00	LINR
FL-PRO peaks C8-C40	729.26000	850.00000	4662.7000	0.01	-14.20	25.00	LINR
C-38	42.041000	50.000000	4317.3000	0.01	-15.92	25.00	LINR
C-40	44.830000	50.000000	4502.3000	0.01	-10.34	25.00	LINR
C-32	43.184000	50.000000	4621.6000	0.01	-13.63	25.00	LINR
C-34	43.253000	50.000000	4700.4000	0.01	-13.49	25.00	LINR
O-Terphenyl	6905.8000	5294.3000	5294.3000	0.01	-23.34	25.00	AVRG
n-Triacontane-D62	4578.0000	4101.8000	4101.8000	0.01	-10.40	25.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC12 Calibration Date: 12/04/03 Time: 1042

Lab File ID: CTL2057 Init. Calib. Date(s): 01/17/03 01/17/03

Init. Calib. Times: 1201 1643

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
C-24	45.576000	50.000000	4972.7000	0.01	-8.85	25.00	LINR
C-8	45.676000	50.000000	4992.7000	0.01	-8.65	25.00	LINR
C-10	47.568000	50.000000	5243.6000	0.01	-4.86	25.00	LINR
C-12	48.714000	50.000000	5449.7000	0.01	-2.57	25.00	LINR
C-14	46.536000	50.000000	5124.8000	0.01	-6.93	25.00	LINR
C-16	45.980000	50.000000	5092.3000	0.01	-8.04	25.00	LINR
C-18	46.232000	50.000000	5086.4000	0.01	-7.54	25.00	LINR
C-28	46.005000	50.000000	5008.3000	0.01	-7.99	25.00	LINR
C-20	45.984000	50.000000	5056.2000	0.01	-8.03	25.00	LINR
C-22	45.702000	50.000000	5057.2000	0.01	-8.60	25.00	LINR
C-26	45.548000	50.000000	5007.5000	0.01	-8.90	25.00	LINR
C-30	46.893000	50.000000	5084.8000	0.01	-6.21	25.00	LINR
C-36	46.068000	50.000000	4918.6000	0.01	-7.86	25.00	LINR
FL-PRO peaks C8-C40	781.22000	850.00000	4989.6000	0.01	-8.07	25.00	LINR
C-38	43.532000	50.000000	4468.4000	0.01	-12.94	25.00	LINR
C-40	40.960000	50.000000	4113.4000	0.01	-18.08	25.00	LINR
C-32	46.769000	50.000000	4996.0000	0.01	-6.46	25.00	LINR
C-34	47.478000	50.000000	5150.5000	0.01	-5.04	25.00	LINR
O-Terphenyl	6905.8000	5748.5000	5748.5000	0.01	-16.76	25.00	AVRG
n-Triacontane-D62	4578.0000	4438.4000	4438.4000	0.01	-3.05	25.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-2

Instrument ID: GC12 Calibration Date: 12/04/03 Time: 2327

Lab File ID: CTL2066 Init. Calib. Date(s): 01/17/03 01/17/03

Init. Calib. Times: 1201 1643

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
C-24	46.288000	50.000000	5048.6000	0.01	-7.42	25.00	LINR
C-8	46.345000	50.000000	5063.2000	0.01	-7.31	25.00	LINR
C-10	47.429000	50.000000	5228.8000	0.01	-5.14	25.00	LINR
C-12	48.868000	50.000000	5466.2000	0.01	-2.26	25.00	LINR
C-14	46.998000	50.000000	5174.3000	0.01	-6.00	25.00	LINR
C-16	46.589000	50.000000	5157.7000	0.01	-6.82	25.00	LINR
C-18	46.795000	50.000000	5146.8000	0.01	-6.41	25.00	LINR
C-28	47.111000	50.000000	5126.0000	0.01	-5.78	25.00	LINR
C-20	46.488000	50.000000	5110.1000	0.01	-7.02	25.00	LINR
C-22	46.182000	50.000000	5109.0000	0.01	-7.64	25.00	LINR
C-26	46.687000	50.000000	5129.9000	0.01	-6.63	25.00	LINR
C-30	47.934000	50.000000	5195.7000	0.01	-4.13	25.00	LINR
C-36	48.148000	50.000000	5137.1000	0.01	-3.70	25.00	LINR
FL-PRO peaks C8-C40	795.64000	850.00000	5078.5000	0.01	-6.40	25.00	LINR
C-38	44.366000	50.000000	4553.0000	0.01	-11.27	25.00	LINR
C-40	43.734000	50.000000	4392.2000	0.01	-12.53	25.00	LINR
C-32	48.195000	50.000000	5144.9000	0.01	-3.61	25.00	LINR
C-34	47.479000	50.000000	5150.6000	0.01	-5.04	25.00	LINR
O-Terphenyl	6905.8000	5705.9000	5705.9000	0.01	-17.38	25.00	AVRG
n-Triacontane-D62	4578.0000	4607.7000	4607.7000	0.01	0.65	25.00	AVRG

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/18/03
Analysis Date: 12/01/03
Report Date: 12/08/2003
Matrix: SOIL
% Solids: 100

Lab ID: WG4643-1
Client ID: WG4643-Blank
SDG: CTO318-2
Extracted by: LS
Extraction Method: SW846 3540
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG4643
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	J	3.5	1.0	20	20	1.4
	n-Triacontane-D62		*143%				
	O-Terphenyl		*121%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/18/03
Analysis Date: 12/02/03
Report Date: 12/08/2003
Matrix: SOIL

Lab ID: WG4643-2
Client ID: WG4643-LCS
SDG: CTO318-2
Extracted by: LS
Extraction Method: SW846 3540
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG4643
Units: mg/Kg

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Petroleum Range Organics	28	NA	35	124	63-135

Katahdin Analytical Services 7000010

TLFRO - 30X

Katahdin Analytical Services, Inc.
Organic Extraction Log

Protocol: SW846
Analysis: FUEL OILS
Date QC Started: 11-18-03
QC Expiration Date: 12-01-03
QC Batch ID:
SURROGATE ID: GC0042 / GC0040

Analytical Method: SW846/8015M/ME 4.1.25
Extraction Technique: SONIC 3550
SOX 3540
ASE 3545
Matrix: SOLID
SPIKE ID: GC0041

CLEAN-UP: GC screen, GPC, Florosil, Acid Wash, Other:
Sonicator Horns Tuned: NR
Solvent Lot # CH_2Cl_2: X44E02
Solvent Lot #

Count	Date Extracted	Ext. Init.	Sample ID	Initial Volume	Surr. Vol.	Spike Vol.	Final Vol.	Date Conc.	Tray Location	Init.	Comments
Blank-1	11-18-03	CJ	WG4693-1	30g	1.0mL	NR	2.0mL	11/21/03	FL7 C8	NB	R116345
LCS-1	↓	↓	2	↓	↓	1.0mL	↓	↓	C9	↓	
MS	↓	↓	3	↓	↓	↓	↓	↓	C10	↓	MT [illegible]
MSD	↓	↓	4	↓	↓	↓	↓	11-22-03	FL8 A1	NB	↓
Blank-2											
LCS-2											
Blank-3											
LCS-3									11-20-03		
Blank-4									NB		
LCS-4											
Blank-5											
LCS-5											
Blank-6											
LCS-6											

TL PRO - SOX

Count	Date Extracted	Ext. Init.	Sample ID	Initial Volume	Surr. Vol.	Spike Vol.	Final Vol.	Date Conc.	Tray Location	Init.	Comments
1	11-18-03	US	WT2868-1	30g	1.0mL	NR	2 mL	11.22-03	FL8 A2	NB	
2			2						A3		
3			3				2.0mL	11/21/03	FL7 C11	NB	
4			4				2.0mL		C12	NB	
5			5					11.22-03	FL8 A4		
6			6				2.0mL	11/21/03	FL7 D1	NB	
7			7						D2		
8			8						D3		
9			9				2 mL	11.22-03	FL8 A5		
10			10						A6		
11			WT2875-1				2.0mL	11/21/03	FL7 D4	NB	
12			2						D5		
13			3						D6		
14			4				2 mL	11.22-03	FL8 A7		
15			5				2.0mL	11/21/03	FL7 D7	NB	
16			6				2 mL	11.22-03	FL9 A8	NB	
17			WT2880-1						A9		
18			-2						A10		
19											
20											11-18-03

Reviewed By: _____

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/20/03
Analysis Date: 12/01/03
Report Date: 12/05/2003
Matrix: SOIL
% Solids: 100

Lab ID: WG4690-1
Client ID: WG4690-Blank
SDG: CTO318-2
Extracted by: NB
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4690
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		82	1.0	20	20	1.4
	n-Triacontane-D62		92%				
	O-Terphenyl		71%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/20/03
Analysis Date: 12/01/03
Report Date: 12/05/2003
Matrix: SOIL

Lab ID: WG4690-2 & WG4690-3
Client ID: WG4690-LCS & WG4690-LCSD
SDG: CTO318-2
Extracted by: NB
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4690
Units: mg/Kg

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Petroleum Range Organics	57	57	NA	120	120	* 212	* 212	0.0	50	63-153

Katahdin Analytical Services 7000011

FLA-PRO
fo N

Katahdin Analytical Services, LLC
Organic Extraction Log

Protocol: SW846

Analysis: FUEL OILS

Date QC Started: 11.20.03

QC Expiration Date: ~~12.01.03~~ 12.03.03

QC Batch ID:

SURROGATE ID: GC00042

Analytical Method: SW846/8015M/ME 4.1.25

Extraction Technique: SONIC 3550 (circled)
SOX 3540
ASE 3545

Matrix: SOLID

SPIKE ID: GC00041

CLEAN-UP: GC screen, GPC, Florosil, Acid Wash, Other:

Sonicator Horns Tuned: 20 ½

Solvent Lot # MeCl2 : X44E02

Solvent Lot # Acetone : 014E12

Count	Date Extracted	Ext. Init.	Sample ID	Initial Volume	Surr. Vol.	Spike Vol.	Final Vol.	Date Conc.	Tray Location	Init.	Comments
Blank-1	11.20.03	NJ	WG46490-1	30g	2 mL	NR	2mL	11.25.03	FL8 A1	LS	R16420
LCS-1	↓	↓	-2	↓	↓	2 mL	↓	↓	A2	↓	
MS	↓	↓	-3	↓	↓	↓	↓	↓	A3	↓	
MSD											
Blank-2											
LCS-2											
Blank-3											
LCS-3											
Blank-4											
LCS-4											
Blank-5											
LCS-5											
Blank-6											
LCS-6											

FLA - PRO SON

Count	Date Extracted	Ext. Init.	Sample ID	Initial Volume	Surr. Vol.	Spike Vol.	Final Vol.	Date Conc.	Tray Location	Init.	Comments
1	11-20-03	NB	WT2913-1	20g	2 ml	NR	2 ml	11-25-03	FL8 A4	LS	
2			↓ -2	↓	↓	↓	↓	↓	A5	↓	
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

Reviewed By: _____

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 12/04/03
Received Date: 12/04/03
Extraction Date: 12/04/03
Analysis Date: 12/04/03
Report Date: 12/05/2003
Matrix: SOIL
% Solids: 100

Lab ID: WG4950-1
Client ID: WG4950-Blank
SDG: CTO318-2
Extracted by: NB
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4950
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	J	4.2	1.0	20	20	1.4
	n-Triacontane-D62		101%				
	O-Terphenyl		86%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KAY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 12/04/03
Analysis Date: 12/04/03
Report Date: 12/05/2003
Matrix: SOIL

Lab ID: WG4950-2 & WG4950-3
Client ID: WG4950-LCS & WG4950-LCSD
SDG: CTO318-2
Extracted by: NB
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG4950
Units: mg/Kg

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Petroleum Range Organics	57	57	NA	56	57	99	100	2	50	63-153

Katahdin Analytical Services 7000012

FLA-PRO SON

[redacted]

Protocol: SW846

Analysis: FUEL OILS

Date QC Started: 12-07-03

QC Expiration Date: 12-~~18~~ 03 NB 18.03

QC Batch ID:

SURROGATE ID: GC0048

Analytical Method: SW846/8015M/ME 4.1.25

Extraction Technique: SONIC 3550 / SOX 3540 / ASE 3545

Matrix: SOLID

SPIKE ID: GC 0041

CLEAN-UP: GC screen, GPC, Florosil, Acid Wash, Other:

Sonicator Horns Tuned: 20%

Solvent Lot # MeCl2; Y41E71

Solvent Lot #

0.3g Silica gel added to all Samples and QC after KD

Count	Date Extracted	Ext. Init.	Sample ID	Initial Volume	Surr. Vol.	Spike Vol.	Final Vol.	Date Conc.	Tray Location	Init.	Comments
Blank-1	12-07-03	NB	WG 4950-1	30g	2.0 mL	NR	2.0ml	12-4-03	FL8 / CH	BZ	R16809
LCS-1	↓	↓	-2	↓	↓	2.0 mL	↓	↓	C12	↓	
MS	↓	↓	-3	↓	↓	↓	↓	↓	D1	↓	
MSD											
Blank-2											
LCS-2											
Blank-3											
LCS-3											
Blank-4											
LCS-4											
Blank-5											
LCS-5											
Blank-6											
LCS-6											

FLA - PRO - SON

Count	Date Extracted	Ext. Init.	Sample ID	Initial Volume	Surr. Vol.	Spike Vol.	Final Vol.	Date Conc.	Tray Location	Init.	Comments
1	12.04.03	NB	WT2913-1	30g	2.0 mL	NR	2ml	12-4-03	FL8 D2	AZ	(RE)
2	↓	↓	-2	↓	↓	↓	↓	↓	D3	↓	↓
3			WT3024-1						D4		
4			-2						D5		
5			-3						D6		
6			-4						D7		
7			-5						D8		
8			-6						D9		
9			-7						D10		
10			-8						D11		
11			-9						D12		
12	↓	↓	-10	↓	↓	↓	↓	↓	FL9 A1	↓	↓
13											
14											
15											
16											
17											
18											
19											
20											

Reviewed By: _____

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **C. BRYAN** **DATE:** **JANUARY 6, 2004**

FROM: **BERNARD F SPADA III** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOC/PAH**
CTO 318, NAS KEY WEST
SDG 3183

SAMPLES: 20/Aqueous

G01-GS-11-1103*	G01-GS-12-1103*	G01-GS-13-1103
G01-GS-14-1103	G01-GS-15-1103	G01-GS-16-1103*
G01-GS-17-1103	G01-GS-18-1103	G01-GS-19-1103*
G01-GS-20-1103	G01-GS-21-1103	G01-GS-22-1103*
G01-GS-23-1103	G01-GS-24-1103	G01-GS-25-1103
G01-GS-26-1103	G01-GS-27-1103	KW-DUP-02-1103
KW-DUP-03-1103	KWTB-111403	

OVERVIEW

The sample set for CTO 318, NAS Key West, SDG 3183 consists of seventeen (17) environmental aqueous samples, one (1) trip blank, and two (2) field duplicates. All samples were analyzed for priority pollutant VOCs, benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl-tert-butyl ether (MTBE). The samples denoted with an asterisk (*) were also analyzed for polynuclear aromatic hydrocarbons (PAH). The field duplicate pairs included in this SDG are (KW-DUP-02-1103 / G01-GS-15-1103) and (KW-DUP-03-1103 / G01-GS-27-1103).

The samples were collected by Tetra Tech NUS on November 14 and 15, 2003 and analyzed by Katahdin Analytical Services. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8260B and 8270C analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

- Data completeness
- * Holding times
- Initial and continuing calibration
- Laboratory method and field quality control blank results
- Surrogate recoveries
- * Field duplicate precision
- Blank Spike recoveries
- Matrix Spike recoveries
- Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

The text of this report is formulated to address only gross non-compliances resulting in the rejection of data and the elimination of false positives.

Volatile

The continuing calibrations performed on November 20 at 08:47 and 21:31 on the CGMS-M instrument exceeded the 25% difference quality control criteria for chloromethane and bromomethane. No qualifications were made on this basis because all results for the aforementioned compounds were non-detected.

The following compounds were detected in the method blank:

Compound	Maximum Concentration	Blank Action Level
Chloroform	0.3 µg/L	1.5 µg/L
Toluene[1]	3.0 µg/L	15 µg/L
o-Xylene[1]	2.0 µg/L	10 µg/L
m,p-Xylenes[1]	5.0 µg/L	25 µg/L
total-Xylenes[1]	7.0 µg/L	35 µg/L
Ethylbenzene[1]	4.0 µg/L	20 µg/L

1 – Detected in the trip blank

Sample aliquot and dilution factors were taken into consideration when applying the blank action levels. The method blank (WG4724-Blank) results for total-xylenes did not correspond to the sum of m,p-xylenes and o-xylenes. The validator changed the result for total-xylenes to correspond with the sum of m,p-xylenes and o-xylenes in the aforementioned method blank. The positive results for the aforementioned compounds below the action level were qualified as non-detected (U). Please note that the trip blank was not qualified for method blank contamination.

The blank spike (WG4702-LCS) performed on the GCMS-M instrument exceeded the percent recovery quality control criteria for 2-butanone. No qualifications were made on this basis because the results for 2-butanone were non-detected.

The blank spike (WG4717-LCS) performed on the GCMS-M instrument exceeded the percent recovery quality control criteria for 2-butanone and acetone. No qualifications were made on this basis because the results for the aforementioned compounds were non-detected.

The blank spike (WG4669-LCS) performed on the GCMS-S instrument was below the percent recovery quality control criteria for 2-chloroethylvinyl ether, benzene, and bromodichloromethane. The positive and non-detected results for the aforementioned compounds analyzed on the GCMS-S instrument (samples G01-GS-11-1103, G01-GS-12-1103, G01-GS-13-1103, G01-GS-14-1103, G01-GS-15-1103, G01-GS-16-1103, G01-GS-17-1103, G01-GS-18-1103, G01-GS-19-1103, G01-GS-21-1103, G01-GS-22-1103, and KW-DUP-02-1103) were qualified as estimated (J and UJ) respectively.

The blank spike (WG4724-LCS) performed on the GCMS-Z instrument was below the percent recovery quality control criteria for 2-chloroethylvinyl ether. The non-detected results for 2-chloroethylvinyl ether analyzed on the GCMS-Z instrument (samples G01-GS-20-1103 and KWTB-111403) were qualified as estimated (UJ).

The percent recoveries of bromomethane, cis-1,3-dichloropropene, and 2-chloroethylvinyl ether were below the quality control criteria in the MS/MSD of sample G01-GS-21-1103. The non-detected result for 2-chloroethylvinyl ether was qualified as estimated (UJ) in sample G01-GS-21-1103. No qualifications were made to bromomethane and cis-1,3-dichloropropene on this basis because the blank spikes were compliant.

PAH

The continuing calibration performed on December 1 at 09:17 on the GCMS-K instrument exceeded the 25% (and was >100%) difference quality control criteria for pyrene. No qualifications were made on this basis because no results for pyrene were validated using this calibration.

All surrogates exhibited 0% recovery in the 8270 SIM analysis of sample G01-GS-22-1103. The sample was re-analyzed utilizing 8270C full scan without the appropriate concentration of surrogates spiked. All positive and non-detected results in sample G01-GS-22-1103 were qualified as estimated (J, UJ) respectively.

Internal standards 1,4-dichlorobenzene-d4 and acenaphthene-d10 were not recovered and internal standard phenanthrene-d10 exhibited <10% recovery in the 8270 SIM analysis of sample G01-GS-22-1103. The sample was re-analyzed utilizing 8270C full scan with acceptable internal standard recoveries. No qualifications were made on this basis.

All samples were re-analyzed utilizing 8270C full scan because the concentration of target analytes exceeded the linear calibration range of the instrument for 8270 SIM.

The results for acenaphthene, fluorene, and phenanthrene in the 8270C analysis of sample G01-GS-12-1103 were below the adjusted reporting limit. The results from the 8270 SIM analysis of sample G01-GS-12-1103 for the aforementioned compounds exceeded the instrument calibration range. Results from the 8270C full scan analysis were used for validation.

The results for fluorene and acenaphthene in the 8270C full scan analysis of sample G01-GS-16-1103 were below the adjusted reporting limits. The results for the aforementioned compounds in sample G01-GS-16-1103 from the 8270 SIM analysis exceeded the instrument calibration range. The results for acenaphthene and fluorene from the 8270C full scan analysis were used for validation.

Additional Comments

Positive results below the reporting limit were qualified as estimated (J) due to uncertainty near the detection limit.

All positive and non-detected results from the 8270C full scan analysis of sample G01-GS-22-1103 were qualified as estimated (J, UJ) because of the severe interference in the 8270 SIM analysis and because extraction efficiency could not be determined. All remaining results for over-range analyses were transposed from the 8270C analyses to the 8270 SIM analyses and used for validation.

The laboratory did not provide raw data for any samples. The validator requested the laboratory to submit raw data for all analyses of sample G01-GS-22-1103 because of poor QC and conflicting results between the two analyses of the sample. The laboratory submitted the raw data upon request. Upon review of the raw data, the validator asked the laboratory why there was a large discrepancy in results for anthracene (2100ug/L and non-detected) between the two analyses. The laboratory re-evaluated the sample and determined that the detection for anthracene was mis-identified. The laboratory re-submitted the Form I for the 8270 SIM analysis reporting the result as phenanthrene. Due to the poor surrogate and internal standard recoveries, the 8270 SIM analysis was determined to be unreliable for sample G01-GS-22-1103. The results for the 8270C full scan were used for validation and qualified as estimated (J and UJ) because extraction efficiency could not be determined. This also accounts for the elevated reporting limits for all non-detected compounds in sample G01-GS-22-1103.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Qualifications were made based on blank spike non-compliances, method blank contamination, surrogate recovery non-compliances, and instrument calibration range exceedances.

Other Factors Affecting Data Quality: Qualifications were made based on MS/MSD recovery non-compliances.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines. The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Bernard F. Spada III
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 4779

SDG: 3183 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-11-1103	nsample	G01-GS-12-1103	nsample	G01-GS-13-1103
samp_date	11/14/2003	samp_date	11/14/2003	samp_date	11/14/2003
lab_id	WT2898-1	lab_id	WT2898-2	lab_id	WT2898-6
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	13	J	E
BROMODICHLOROMETHANE	1	UJ	E
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1		
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	28		
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	6	J	E
BROMODICHLOROMETHANE	1	UJ	E
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	39		
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	0.4	J	EP
BROMODICHLOROMETHANE	1	UJ	E
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	8	U	B
M+P-XYLENES	2	U	B
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	2	U	B
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	4	U	B
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3183 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-14-1103	nsample	G01-GS-15-1103	nsample	G01-GS-16-1103
samp_date	11/14/2003	samp_date	11/14/2003	samp_date	11/14/2003
lab_id	WT2898-7	lab_id	WT2898-8	lab_id	WT2898-3
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	0.2	J	EP
BROMODICHLOROMETHANE	1	UJ	E
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	4	U	B
M+P-XYLENES	2	U	B
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	B
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	3	U	B
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	UJ	E
BROMODICHLOROMETHANE	1	UJ	E
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	B
M+P-XYLENES	2	U	B
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	B
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	3	U	B
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	8	J	E
BROMODICHLOROMETHANE	1	UJ	E
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	52		
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3183 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-17-1103	nsample	G01-GS-18-1103	nsample	G01-GS-19-1103
samp_date	11/14/2003	samp_date	11/14/2003	samp_date	11/14/2003
lab_id	WT2898-10	lab_id	WT2898-11	lab_id	WT2898-4
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	0.1	J	EP
BROMODICHLOROMETHANE	1	UJ	E
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	6	U	B
M+P-XYLENES	2	U	B
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	B
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	3	U	B
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	0.3	J	P
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	UJ	E
BROMODICHLOROMETHANE	1	UJ	E
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	B
M+P-XYLENES	2	U	B
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	B
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	3	U	B
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	4	J	E
BROMODICHLOROMETHANE	1	UJ	E
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	17	U	B
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

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SDG: 3183 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-20-1103	nsample	G01-GS-21-1103	nsample	G01-GS-22-1103-X
samp_date	11/14/2003	samp_date	11/14/2003	samp_date	11/14/2003
lab_id	WT2898-12	lab_id	WT2898-13	lab_id	WT2898-5
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	B
M+P-XYLENES	9	U	B
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	4	U	B
TETRACHLOROETHENE	1	U	
TOLUENE	5	U	B
TOTAL XYLENES	13	U	B
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	UJ	E
BROMODICHLOROMETHANE	1	UJ	E
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	B
M+P-XYLENES	2	U	B
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	B
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	3	U	B
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	0.5	J	EP
BROMODICHLOROMETHANE	1	UJ	E
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	24		
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

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SDG: 3183 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-23-1103	nsample	G01-GS-24-1103	nsample	G01-GS-25-1103
samp_date	11/15/2003	samp_date	11/15/2003	samp_date	11/15/2003
lab_id	WT2910-1	lab_id	WT2910-2	lab_id	WT2910-3
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	2	U	B
M+P-XYLENES	2	U	B
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	B
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	3	U	B
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	B
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	B
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3183 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-26-1103	nsample	G01-GS-27-1103	nsample	KW-DUP-02-1103
samp_date	11/15/2003	samp_date	11/15/2003	samp_date	11/14/2003
lab_id	WT2910-4	lab_id	WT2910-5	lab_id	WT2898-9
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	G01-GS-15-1103

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	UJ	E
BROMODICHLOROMETHANE	1	UJ	E
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	B
M+P-XYLENES	2	U	B
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	B
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	B
TOTAL XYLENES	3	U	B
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3183 MEDIA: WATER DATA FRACTION: OV

nsample	KW-DUP-03-1103	nsample	KWTB-111403
samp_date	11/15/2003	samp_date	11/6/2003
lab_id	WT2910-6	lab_id	WT2898-14
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:	G01-GS-27-1103	DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UJ	E
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	4		
M+P-XYLENES	5		
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	2		
TETRACHLOROETHENE	1	U	
TOLUENE	3		
TOTAL XYLENES	8		
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3183 MEDIA: WATER DATA FRACTION: PAH

nsample	G01-GS-11-1103	nsample	G01-GS-12-1103	nsample	G01-GS-16-1103
samp_date	11/14/2003	samp_date	11/14/2003	samp_date	11/14/2003
lab_id	WT2898-1	lab_id	WT2898-2	lab_id	WT2898-3
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	24		
2-METHYLNAPHTHALENE	23		
ACENAPHTHENE	0.48		
ACENAPHTHYLENE	0.078	J	P
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.76		
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	55		
PHENANTHRENE	0.75		
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	100		
2-METHYLNAPHTHALENE	120		
ACENAPHTHENE	5	J	P
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	7	J	P
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	120		
PHENANTHRENE	9	J	P
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	150		
2-METHYLNAPHTHALENE	110		
ACENAPHTHENE	13	J	P
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	1.8		
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.65		
FLUORENE	17	J	P
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	48		
PHENANTHRENE	27		
PYRENE	1.3		

PROJ_NO: 4779

SDG: 3183 MEDIA: WATER DATA FRACTION: PAH

nsample	G01-GS-19-1103	nsample	G01-GS-22-1103
samp_date	11/14/2003	samp_date	11/14/2003
lab_id	WT2898-4	lab_id	WT2898-5DL2
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	30		
2-METHYLNAPHTHALENE	22		
ACENAPHTHENE	0.79		
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.87		
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	43		
PHENANTHRENE	0.8		
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	2100	J	R
2-METHYLNAPHTHALENE	2300	J	R
ACENAPHTHENE	180	J	PR
ACENAPHTHYLENE	200	UJ	R
ANTHRACENE	200	UJ	R
BENZO(A)ANTHRACENE	200	UJ	R
BENZO(A)PYRENE	200	UJ	R
BENZO(B)FLUORANTHENE	200	UJ	R
BENZO(G,H,I)PERYLENE	200	UJ	R
BENZO(K)FLUORANTHENE	200	UJ	R
CHRYSENE	200	UJ	R
DIBENZO(A,H)ANTHRACENE	200	UJ	R
FLUORANTHENE	200	UJ	R
FLUORENE	260	J	R
INDENO(1,2,3-CD)PYRENE	200	UJ	R
NAPHTHALENE	510	J	R
PHENANTHRENE	510	J	R
PYRENE	25	J	PR

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date:
Analysis Date: 11/19/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-1
Client ID: G01-GS-11-1103
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4669
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene		1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene		13	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.5	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		28	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		80%				
17060-07-0	1,2-Dichloroethane-D4		77%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		85%				

Katahdin Analytical Services 1000043

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date:
Analysis Date: 11/19/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-2
Client ID: G01-GS-12-1103
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4669
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene		6	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.4	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		39	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		80%				
17060-07-0	1,2-Dichloroethane-D4		80%				
2037-26-5	Toluene-D8		88%				
460-00-4	P-Bromofluorobenzene		87%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date:
Analysis Date: 11/19/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-6
Client ID: G01-GS-13-1103
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4669
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	J	0.4	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.4	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		8	1.0	1	1	0.1
1330-20-7	Xylenes (total)	B	4	1.0	3	3	0.3
	m+p-Xylenes	JB	1	1.0	2	2	0.2
95-47-6	o-Xylene	B	2	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		81%				
17060-07-0	1,2-Dichloroethane-D4		79%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		88%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date:
Analysis Date: 11/19/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-7
Client ID: G01-GS-14-1103
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4669
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	J	0.2	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.3	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		4	1.0	1	1	0.1
1330-20-7	Xylenes (total)	JB	1	1.0	3	3	0.3
	m+p-Xylenes	JB	0.7	1.0	2	2	0.2
95-47-6	o-Xylene	JB	0.6	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		81%				
17060-07-0	1,2-Dichloroethane-D4		79%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		87%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date:
Analysis Date: 11/19/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-8
Client ID: G01-GS-15-1103
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4669
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.2	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.3	1.0	1	1	0.1
1330-20-7	Xylenes (total)	JB	0.6	1.0	3	3	0.3
	m+p-Xylenes	JB	0.4	1.0	2	2	0.2
95-47-6	o-Xylene	JB	0.2	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		81%				
17060-07-0	1,2-Dichloroethane-D4		78%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		86%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date:
Analysis Date: 11/19/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-3
Client ID: G01-GS-16-1103
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4669
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene		8	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.4	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		52	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		81%				
17060-07-0	1,2-Dichloroethane-D4		78%				
2037-26-5	Toluene-D8		88%				
460-00-4	P-Bromofluorobenzene		86%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date:
Analysis Date: 11/19/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-10
Client ID: G01-GS-17-1103
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4669
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	J	0.1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.4	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		6	1.0	1	1	0.1
1330-20-7	Xylenes (total)	JB	1	1.0	3	3	0.3
	m+p-Xylenes	JB	0.6	1.0	2	2	0.2
95-47-6	o-Xylene	JB	0.5	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		84%				
17060-07-0	1,2-Dichloroethane-D4		82%				
2037-26-5	Toluene-D8		88%				
460-00-4	P-Bromofluorobenzene		86%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date:
Analysis Date: 11/19/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-11
Client ID: G01-GS-18-1103
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4669
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	J	0.3	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.3	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	JB	0.7	1.0	3	3	0.3
	m+p-Xylenes	JB	0.4	1.0	2	2	0.2
95-47-6	o-Xylene	JB	0.2	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		82%				
17060-07-0	1,2-Dichloroethane-D4		80%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		87%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date:
Analysis Date: 11/19/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-4
Client ID: G01-GS-19-1103
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4669
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene		4	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.4	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		17	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		81%				
17060-07-0	1,2-Dichloroethane-D4		78%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		85%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-12
Client ID: G01-GS-20-1103
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4724
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	B	5	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.7	1.0	1	1	0.1
1330-20-7	Xylenes (total)	B	13	1.0	3	3	0.3
	m+p-Xylenes	B	9	1.0	2	2	0.2
95-47-6	o-Xylene	B	4	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		93%				
17060-07-0	1,2-Dichloroethane-D4		88%				
2037-26-5	Toluene-D8		108%				
460-00-4	P-Bromofluorobenzene		103%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date:
Analysis Date: 11/19/03
Report Date: 12/03/2003
Matrix: WATER
% Solids. NA

Lab ID: WT2898-13
Client ID: G01-GS-21-1103
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4669
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.3	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.5	1.0	1	1	0.1
1330-20-7	Xylenes (total)	JB	0.7	1.0	3	3	0.3
	m+p-Xylenes	JB	0.4	1.0	2	2	0.2
95-47-6	o-Xylene	JB	0.2	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		80%				
17060-07-0	1,2-Dichloroethane-D4		75%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date:
Analysis Date: 11/19/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-5
Client ID: G01-GS-22-1103
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4669
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	J	0.5	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.4	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		24	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		80%				
17060-07-0	1,2-Dichloroethane-D4		79%				
2037-26-5	Toluene-D8		88%				
460-00-4	P-Bromofluorobenzene		86%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/15/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/20/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2910-1
Client ID: G01-GS-23-1103
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4702
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.2	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		2	1.0	1	1	0.1
1330-20-7	Xylenes (total)	J	2	1.0	3	3	0.3
	m+p-Xylenes	JB	1	1.0	2	2	0.2
95-47-6	o-Xylene	J	0.5	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		99%				
17060-07-0	1,2-Dichloroethane-D4		100%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/15/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/20/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2910-2
Client ID: G01-GS-24-1103
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4702
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	JB	0.2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		97%				
17060-07-0	1,2-Dichloroethane-D4		99%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/15/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/20/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2910-3
Client ID: G01-GS-25-1103
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4702
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	JB	0.2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		104%				
17060-07-0	1,2-Dichloroethane-D4		108%				
2037-26-5	Toluene-D8		99%				
460-00-4	P-Bromofluorobenzene		100%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/15/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2910-4
Client ID: G01-GS-26-1103
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4717
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		98%				
17060-07-0	1,2-Dichloroethane-D4		99%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		93%				

Katahdin Analytical Services 1000060

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/15/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2910-5
Client ID: G01-GS-27-1103
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4717
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		101%				
17060-07-0	1,2-Dichloroethane-D4		104%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date:
Analysis Date: 11/19/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-9
Client ID: KW-DUP-02-1103
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4669
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	0.2	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.2	1.0	1	1	0.1
1330-20-7	Xylenes (total)	JB	0.6	1.0	3	3	0.3
	m+p-Xylenes	JB	0.4	1.0	2	2	0.2
95-47-6	o-Xylene	JB	0.2	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		85%				
17060-07-0	1,2-Dichloroethane-D4		82%				
2037-26-5	Toluene-D8		88%				
460-00-4	P-Bromofluorobenzene		85%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/15/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2910-6
Client ID: KW-DUP-03-1103
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4717
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		100%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		97%				
460-00-4	P-Bromofluorobenzene		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/06/03
Received Date: 11/15/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-14
Client ID: KWTB-111403
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4724
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	B	3	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		4	1.0	1	1	0.1
1330-20-7	Xylenes (total)	B	8	1.0	3	3	0.3
	m+p-Xylenes	B	5	1.0	2	2	0.2
95-47-6	o-Xylene	B	2	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		98%				
17060-07-0	1,2-Dichloroethane-D4		88%				
2037-26-5	Toluene-D8		108%				
460-00-4	P-Bromofluorobenzene		104%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date: 11/18/03
Analysis Date: 12/01/03
Report Date: 12/02/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-1
Client ID: G01-GS-11-1103
SDG: CTO318-3
Extracted by: LS
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4621
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	E	45	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	E	21	1.0	0.20	0.20	0.076
208-96-8	Acenaphthylene	J	0.078	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene		0.48	1.0	0.20	0.20	0.076
86-73-7	Fluorene		0.76	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene		0.75	1.0	0.20	0.20	0.076
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.076
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.076
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.095
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.076
90-12-0	1-Methylnaphthalene	E	18	1.0	0.20	0.20	0.076
7297-45-2	2-Methylnaphthalene-d10		122%				
81103-79-9	Fluorene-d10		64%				
1718-52-1	Pyrene-d10		77%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date: 11/18/03
Analysis Date: 12/02/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-1RA
Client ID: G01-GS-11-1103
SDG: CTO318-3
Extracted by: LS
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG4621
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		55	1.0	10	10	0.9
91-57-6	2-Methylnaphthalene		23	1.0	10	10	1
90-12-0	1-Methylnaphthalene		24	1.0	10	10	5
208-96-8	Acenaphthylene	U	10	1.0	10	10	0.8
83-32-9	Acenaphthene	U	10	1.0	10	10	1
86-73-7	Fluorene	J	1	1.0	10	10	0.8
85-01-8	Phenanthrene	J	1	1.0	10	10	0.8
120-12-7	Anthracene	U	10	1.0	10	10	0.6
206-44-0	Fluoranthene	U	10	1.0	10	10	0.7
129-00-0	Pyrene	U	10	1.0	10	10	0.8
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	0.6
218-01-9	Chrysene	U	10	1.0	10	10	0.5
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	1.0
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	0.7
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	0.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	0.7
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	0.7
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	0.9

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date: 11/18/03
Analysis Date: 12/01/03
Report Date: 12/02/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-2
Client ID: G01-GS-12-1103
SDG: CTO318-3
Extracted by: LS
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4621
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	E	130	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	E	120	1.0	0.20	0.20	0.077
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	E	3.3	1.0	0.20	0.20	0.077
86-73-7	Fluorene	E	4.2	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	E	8.2	1.0	0.20	0.20	0.077
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.077
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.077
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.096
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.077
90-12-0	1-Methylnaphthalene	E	85	1.0	0.20	0.20	0.077
7297-45-2	2-Methylnaphthalene-d10		82%				
81103-79-9	Fluorene-d10		73%				
1718-52-1	Pyrene-d10		75%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date: 11/18/03
Analysis Date: 12/02/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-2DL
Client ID: G01-GS-12-1103
SDG: CTO318-3
Extracted by: LS
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG4621
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		120	2.0	10	19	2
91-57-6	2-Methylnaphthalene		120	2.0	10	19	2
90-12-0	1-Methylnaphthalene		100	2.0	10	19	10
208-96-8	Acenaphthylene	U	19	2.0	10	19	2
83-32-9	Acenaphthene	J	5	2.0	10	19	2
86-73-7	Fluorene	J	7	2.0	10	19	2
85-01-8	Phenanthrene	J	9	2.0	10	19	2
120-12-7	Anthracene	U	19	2.0	10	19	1
206-44-0	Fluoranthene	U	19	2.0	10	19	1
129-00-0	Pyrene	U	19	2.0	10	19	2
56-55-3	Benzo(a)anthracene	U	19	2.0	10	19	1
218-01-9	Chrysene	U	19	2.0	10	19	1
205-99-2	Benzo(b)fluoranthene	U	19	2.0	10	19	2
207-08-9	Benzo(k)fluoranthene	U	19	2.0	10	19	1
50-32-8	Benzo(a)pyrene	U	19	2.0	10	19	2
193-39-5	Indeno(1,2,3-cd)pyrene	U	19	2.0	10	19	1
53-70-3	Dibenzo(a,h)anthracene	U	19	2.0	10	19	1
191-24-2	Benzo(g,h,i)perylene	U	19	2.0	10	19	2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date: 11/18/03
Analysis Date: 12/01/03
Report Date: 12/02/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-3
Client ID: G01-GS-16-1103
SDG: CTO318-3
Extracted by: LS
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4621
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	E	41	1.0	0.20	0.20	0.051
91-57-6	2-Methylnaphthalene	E	93	1.0	0.20	0.20	0.082
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.051
83-32-9	Acenaphthene	E	11	1.0	0.20	0.20	0.082
86-73-7	Fluorene	E	13	1.0	0.20	0.20	0.061
85-01-8	Phenanthrene	E	26	1.0	0.20	0.20	0.082
120-12-7	Anthracene		1.8	1.0	0.20	0.20	0.082
206-44-0	Fluoranthene		0.65	1.0	0.20	0.20	0.11
129-00-0	Pyrene		1.3	1.0	0.20	0.20	0.092
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.071
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.092
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.082
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.092
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.082
90-12-0	1-Methylnaphthalene	E	130	1.0	0.20	0.20	0.082
7297-45-2	2-Methylnaphthalene-d10		87%				
81103-79-9	Fluorene-d10		67%				
1718-52-1	Pyrene-d10		100%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date: 11/18/03
Analysis Date: 12/02/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-3DL
Client ID: G01-GS-16-1103
SDG: CTO318-3
Extracted by: LS
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG4621
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		48	2.0	10	20	2
91-57-6	2-Methylnaphthalene		110	2.0	10	20	2
90-12-0	1-Methylnaphthalene		150	2.0	10	20	10
208-96-8	Acenaphthylene	U	20	2.0	10	20	2
83-32-9	Acenaphthene	J ✓	13	2.0	10	20	2
86-73-7	Fluorene	J ✓	17	2.0	10	20	2
85-01-8	Phenanthrene		27	2.0	10	20	2
120-12-7	Anthracene	U	20	2.0	10	20	1
206-44-0	Fluoranthene	U	20	2.0	10	20	2
129-00-0	Pyrene	J	2	2.0	10	20	2
56-55-3	Benzo(a)anthracene	U	20	2.0	10	20	1
218-01-9	Chrysene	U	20	2.0	10	20	1
205-99-2	Benzo(b)fluoranthene	U	20	2.0	10	20	2
207-08-9	Benzo(k)fluoranthene	U	20	2.0	10	20	2
50-32-8	Benzo(a)pyrene	U	20	2.0	10	20	2
193-39-5	Indeno(1,2,3-cd)pyrene	U	20	2.0	10	20	1
53-70-3	Dibenzo(a,h)anthracene	U	20	2.0	10	20	2
191-24-2	Benzo(g,h,i)perylene	U	20	2.0	10	20	2

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date: 11/18/03
Analysis Date: 12/01/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-4
Client ID: G01-GS-19-1103
SDG: CTO318-3
Extracted by: LS
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4621
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	E	38	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	E	20	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene		0.79	1.0	0.20	0.20	0.078
86-73-7	Fluorene		0.87	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene		0.80	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.087
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.068
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.087
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.087
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.097
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	E	23	1.0	0.20	0.20	0.078
7297-45-2	2-Methylnaphthalene-d10		80%				
81103-79-9	Fluorene-d10		47%				
1718-52-1	Pyrene-d10		71%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date: 11/18/03
Analysis Date: 12/02/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-4RA
Client ID: G01-GS-19-1103
SDG: CTO318-3
Extracted by: ls
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG4621
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		43	1.0	10	10	0.9
91-57-6	2-Methylnaphthalene		22	1.0	10	10	1
90-12-0	1-Methylnaphthalene		30	1.0	10	10	5
208-96-8	Acenaphthylene	U	10	1.0	10	10	0.8
83-32-9	Acenaphthene	J	1	1.0	10	10	1
86-73-7	Fluorene	J	1	1.0	10	10	0.8
85-01-8	Phenanthrene	J	0.9	1.0	10	10	0.8
120-12-7	Anthracene	U	10	1.0	10	10	0.6
206-44-0	Fluoranthene	U	10	1.0	10	10	0.7
129-00-0	Pyrene	U	10	1.0	10	10	0.8
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	0.7
218-01-9	Chrysene	U	10	1.0	10	10	0.5
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	1.0
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	0.7
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	0.8
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	0.7
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	0.7
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	0.9

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date: 11/18/03
Analysis Date: 12/01/03
Report Date: 12/22/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-5
Client ID: G01-GS-22-1103
SDG: CTO318-3
Extracted by: LS
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4621
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	E	170	1.0	0.2	0.4	0.1
91-57-6	2-Methylnaphthalene	E	730	1.0	0.2	0.4	0.2
208-96-8	Acenaphthylene	U	0.4	1.0	0.2	0.4	0.1
83-32-9	Acenaphthene	U	0.4	1.0	0.2	0.4	0.2
86-73-7	Fluorene	U	0.4	1.0	0.2	0.4	0.1
85-01-8	Phenanthrene	E	2300	1.0	0.2	0.4	0.2
120-12-7	Anthracene	U	0.4	1.0	0.2	0.4	0.2
206-44-0	Fluoranthene	E	50	1.0	0.2	0.4	0.2
129-00-0	Pyrene		5	1.0	0.2	0.4	0.2
56-55-3	Benzo(a)anthracene		0.4	1.0	0.2	0.4	0.2
218-01-9	Chrysene		0.7	1.0	0.2	0.4	0.1
205-99-2	Benzo(b)fluoranthene	U	0.4	1.0	0.2	0.4	0.2
207-08-9	Benzo(k)fluoranthene	U	0.4	1.0	0.2	0.4	0.2
50-32-8	Benzo(a)pyrene	U	0.4	1.0	0.2	0.4	0.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.4	1.0	0.2	0.4	0.2
53-70-3	Dibenzo(a,h)anthracene	U	0.4	1.0	0.2	0.4	0.3
191-24-2	Benzo(g,h,i)perylene	U	0.4	1.0	0.2	0.4	0.2
90-12-0	1-Methylnaphthalene	E	570	1.0	0.2	0.4	0.2
7297-45-2	2-Methylnaphthalene-d10		* 0%				
81103-79-9	Fluorene-d10		* 0%				
1718-52-1	Pyrene-d10		* 0%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date: 11/18/03
Analysis Date: 12/02/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2898-5DL2
Client ID: G01-GS-22-1103
SDG: CTO318-3
Extracted by: LS
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG4621
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		510	10	10	200	19
91-57-6	2-Methylnaphthalene		2300	10	10	200	24
90-12-0	1-Methylnaphthalene		2100	10	10	200	100
208-96-8	Acenaphthylene	U	200	10	10	200	18
83-32-9	Acenaphthene	J	180	10	10	200	23
86-73-7	Fluorene		260	10	10	200	17
85-01-8	Phenanthrene		510	10	10	200	17
120-12-7	Anthracene	U	200	10	10	200	13
206-44-0	Fluoranthene	U	200	10	10	200	15
129-00-0	Pyrene	J	25	10	10	200	16
56-55-3	Benzo(a)anthracene	U	200	10	10	200	14
218-01-9	Chrysene	U	200	10	10	200	11
205-99-2	Benzo(b)fluoranthene	U	200	10	10	200	20
207-08-9	Benzo(k)fluoranthene	U	200	10	10	200	15
50-32-8	Benzo(a)pyrene	U	200	10	10	200	16
193-39-5	Indeno(1,2,3-cd)pyrene	U	200	10	10	200	14
53-70-3	Dibenzo(a,h)anthracene	U	200	10	10	200	16
191-24-2	Benzo(g,h,i)perylene	U	200	10	10	200	18

APPENDIX C

SUPPORT DOCUMENTATION

FIELD DUPLICATE PRECISION

ANALYTE	KW-DUP-02-1103	G01-GS-15-1103	RPD	DIFFERENCE
Ethylbenzene	0.2	0.3	40.00	0.1
ANALYTE	**KW-DUP-03-1103**	**G01-GS-27-1103**	**RPD**	**DIFFERENCE**
No compounds detected.			#DIV/0!	0

HOLDTIME

SDG CTO318-3

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	G01-GS-20-1103	WT2898-12	NM	11/14/2003	11/21/2003	11/21/2003	7	0	7
OV	%	G01-GS-11-1103	WT2898-1	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	%	KW-DUP-02-1103	WT2898-9	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	%	G01-GS-27-1103	WT2910-5	NM	11/15/2003	11/21/2003	11/21/2003	6	0	6
OV	%	G01-GS-26-1103	WT2910-4	NM	11/15/2003	11/21/2003	11/21/2003	6	0	6
OV	%	G01-GS-25-1103	WT2910-3	NM	11/15/2003	11/20/2003	11/20/2003	5	0	5
OV	%	G01-GS-24-1103	WT2910-2	NM	11/15/2003	11/20/2003	11/20/2003	5	0	5
OV	%	G01-GS-23-1103	WT2910-1	NM	11/15/2003	11/20/2003	11/20/2003	5	0	5
OV	%	KW-DUP-03-1103	WT2910-6	NM	11/15/2003	11/21/2003	11/21/2003	6	0	6
OV	%	G01-GS-21-1103	WT2898-13	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	%	KWTB-111403	WT2898-14	NM	11/6/2003	11/21/2003	11/21/2003	15	0	15
OV	%	G01-GS-19-1103	WT2898-4	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	%	G01-GS-18-1103	WT2898-11	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	%	G01-GS-17-1103	WT2898-10	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	%	G01-GS-16-1103	WT2898-3	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	G01-GS-15-1103	WT2898-8	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	%	G01-GS-14-1103	WT2898-7	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	%	G01-GS-13-1103	WT2898-6	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	%	G01-GS-12-1103	WT2898-2	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	%	G01-GS-22-1103	WT2898-5	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	UG/L	G01-GS-20-1103	WT2898-12	NM	11/14/2003	11/21/2003	11/21/2003	7	0	7
OV	UG/L	KW-DUP-03-1103	WT2910-6	NM	11/15/2003	11/21/2003	11/21/2003	6	0	6
OV	UG/L	KW-DUP-02-1103	WT2898-9	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	UG/L	G01-GS-27-1103	WT2910-5	NM	11/15/2003	11/21/2003	11/21/2003	6	0	6
OV	UG/L	G01-GS-26-1103	WT2910-4	NM	11/15/2003	11/21/2003	11/21/2003	6	0	6
OV	UG/L	G01-GS-25-1103	WT2910-3	NM	11/15/2003	11/20/2003	11/20/2003	5	0	5
OV	UG/L	G01-GS-24-1103	WT2910-2	NM	11/15/2003	11/20/2003	11/20/2003	5	0	5
OV	UG/L	G01-GS-23-1103	WT2910-1	NM	11/15/2003	11/20/2003	11/20/2003	5	0	5
OV	UG/L	G01-GS-11-1103	WT2898-1	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	UG/L	G01-GS-21-1103	WT2898-13	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	UG/L	KWTB-111403	WT2898-14	NM	11/6/2003	11/21/2003	11/21/2003	15	0	15
OV	UG/L	G01-GS-19-1103	WT2898-4	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	UG/L	G01-GS-18-1103	WT2898-11	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	UG/L	G01-GS-17-1103	WT2898-10	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	UG/L	G01-GS-16-1103	WT2898-3	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	UG/L	G01-GS-15-1103	WT2898-8	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	UG/L	G01-GS-14-1103	WT2898-7	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	UG/L	G01-GS-13-1103	WT2898-6	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	UG/L	G01-GS-12-1103	WT2898-2	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5
OV	UG/L	G01-GS-22-1103	WT2898-5	NM	11/14/2003	11/19/2003	11/19/2003	5	0	5

HOLDTIME

SDG CTO318-3

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PAH ~~OS~~	%	G01-GS-22-1103	WT2898-5	NM	11/14/2003	11/18/2003	12/1/2003	4	13	17
OS	%	G01-GS-19-1103	WT2898-4	NM	11/14/2003	11/18/2003	12/1/2003	4	13	17
OS	%	G01-GS-16-1103	WT2898-3	NM	11/14/2003	11/18/2003	12/1/2003	4	13	17
OS	%	G01-GS-12-1103	WT2898-2	NM	11/14/2003	11/18/2003	12/1/2003	4	13	17
OS	%	G01-GS-11-1103	WT2898-1	NM	11/14/2003	11/18/2003	12/1/2003	4	13	17
OS	UG/L	G01-GS-22-1103DL2	WT2898-5DL2	NM	11/14/2003	11/18/2003	12/2/2003	4	14	18
OS	UG/L	G01-GS-22-1103	WT2898-5	NM	11/14/2003	11/18/2003	12/1/2003	4	13	17
OS	UG/L	G01-GS-19-1103RA	WT2898-4RA	NM	11/14/2003	11/18/2003	12/2/2003	4	14	18
OS	UG/L	G01-GS-19-1103	WT2898-4	NM	11/14/2003	11/18/2003	12/1/2003	4	13	17
OS	UG/L	G01-GS-16-1103	WT2898-3	NM	11/14/2003	11/18/2003	12/1/2003	4	13	17
OS	UG/L	G01-GS-12-1103	WT2898-2	NM	11/14/2003	11/18/2003	12/1/2003	4	13	17
OS	UG/L	G01-GS-11-1103RA	WT2898-1RA	NM	11/14/2003	11/18/2003	12/2/2003	4	14	18
OS	UG/L	G01-GS-11-1103	WT2898-1	NM	11/14/2003	11/18/2003	12/1/2003	4	13	17

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NAF KEY WEST CTO297/318
TASK ORDER MANAGER: CHARLES BRYAN
CTO318-3

Sample Receipt

The following samples were received on November 15, and 18, 2003 and were logged in under Katahdin Analytical Services work order numbers WT2898 and WT2910 for a hardcopy due date of December 2, 2003.

KATAHDIN Sample No.	TTNUS Sample Identification
WT2898-1	G01-GS-11-1103
WT2898-2	G01-GS-12-1103
WT2898-3	G01-GS-16-1103
WT2898-4	G01-GS-19-1103
WT2898-5	G01-GS-22-1103
WT2898-6	G01-GS-13-1103
WT2898-7	G01-GS-14-1103
WT2898-8	G01-GS-15-1103
WT2898-9	KW-DUP-02-1103
WT2898-10	G01-GS-17-1103
WT2898-11	G01-GS-18-1103
WT2898-12	G01-GS-20-1103
WT2898-13	G01-GS-21-1103
WT2898-14	KWTB-111403
WT2910-1	G01-GS-23-1103
WT2910-2	G01-GS-24-1103
WT2910-3	G01-GS-25-1103
WT2910-4	G01-GS-26-1103
WT2910-5	G01-GS-27-1103
WT2910-6	KW-DUP-03-1103

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Organics Laboratory

The samples of SDG CTO318-3 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, Office of Solid Waste and Emergency Response for the specific method listed below. Sample WT2898-13 was analyzed as the matrix spike (MS) and matrix spike duplicate (MSD), as per client request. Some manual integrations may have been performed due to split peaks and/or corrected baselines. All have been flagged with a "M" (software-generated) on the pertinent quantitation reports.

8270C SIM Analysis

All samples detected one or more target analytes above the 8270 SIM calibration curve. The client was contacted and allowed the laboratory to reanalyze the samples by 8270 SCAN, since the concentration of target analytes in the samples were high enough to be within the 8270 SCAN calibration curve. The 8270 SIM analyses are also reported in order to meet the 8270 SIM PQL for the undetected target analytes. These samples and QC were spiked with the extraction surrogates 2-methylnaphthalene-d10, fluorene-d10 and pyrene-d10. These surrogates are not analyzed by 8270 SCAN, therefore there are no surrogate recoveries reported for the reanalyzed samples and method blank.

Sample WT2898-5 was concentrated to a final volume of 2mL, instead of the laboratory procedure of 1mL, due to the matrix of the sample. Consequently, the sample PQL is elevated by a factor of two.

The method blank WG4621-1 had a high recovery for the surrogate pyrene-d10, which was outside the laboratory acceptance limits. Since this recovery would indicate a high bias and no target analytes were detected above the MDL, the sample was not reanalyzed.

The 8270 SIM analysis of sample WT2898-5 had no or low responses for four internal standards that resulted in %D's that were outside of the method acceptance limits of -50% to 100%. Therefore, the sample did not have recoveries for the three extraction surrogates. Since the sample chromatogram indicated a likely matrix effect, the sample was not reanalyzed by 8270 SIM. The sample was reanalyzed at a dilution by 8270 SCAN, and all internal standard responses were within the acceptance limits.

8260B Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The acceptance limits for the MS/MSD are for a short list of the spiked compounds. Katahdin standard operating procedure is to not take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory contaminants acetone and methylene chloride) in the LCS are outside of the QC limits.

Some method blanks may have detected one or more target analytes above the MDL. Any of these analytes that were also detected in any of the associated samples were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

There were no other protocol deviations or observations noted by the organics laboratory staff.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Maria Crouch
12.05.03
Maria Crouch
Quality Assurance Officer

WT2898

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 3877 | **PAGE** 1 **OF** 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 318	NAS Key West	Chuck Bryan	803-649-7963x344	Katahdin Analytical - A. Colby
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS**
Emily Mckee		Emily Mckee	305-219-1662	340 County Rd. No. 5
		CARRIER/WAYBILL NUMBER		**CITY, STATE**
		8425 8908 7796		Westbrook, ME 04092

STANDARD TAT ☐
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☒ 14 day

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)								COMMENTS
									G	G							
									PRESERVATIVE USED								
									TYPE OF ANALYSIS	PPL Volts + BTEX MTBE	PAHs						
11/14	0800	G01-GS-11-1103	SB-11	—	—	GW	G	5	3	2							No HCl in VOA vials -
11/14	0810	G01-GS-12-1103	SB-12	—	—	GW	G	5	3	2							rinsed due to reaction
11/14	0845	G01-GS-13-1103	SB-13	—	—	GW	G	3	3								with water
11/14	0930	G01-GS-14-1103	SB-14	—	—	GW	G	3	3								
11/14	1000	G01-GS-15-1103	SB-15	—	—	GW	G	3	3								
11/14	0000	KW-DUP-02-1103		—	—	GW	G	3	3								
11/14	1040	G01-GS-16-1103	SB-16	—	—	GW	G	5	3	2							
11/14	1115	G01-GS-17-1103	SB-17	—	—	GW	G	3	3								
11/14	1200	G01-GS-18-1103	SB-18	—	—	GW	G	3	3								
11/14	1300	G01-GS-19-1103	SB-19	—	—	GW	G	5	3	2							
11/14	1255	G01-GS-20-1103	SB-20	—	—	GW	G	3	3								
11/14	1345	G01-GS-21-1103	SB-21	—	—	GW	G	6	6								MS/MSD
11/14	1420	G01-GS-22-1103	SB-22			GW	G	5	3	2							

1. RELINQUISHED BY: Emily Mckee	DATE: 11/14/03	TIME: 1640	1. RECEIVED BY: Fed Ex	DATE	TIME
2. RELINQUISHED BY: Fed Ex	DATE	TIME	2. RECEIVED BY: George Brewer	DATE: 11/15/03	TIME: 11:05
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 3865 | PAGE 2 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 316	NAS Key West			
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		CARRIER/WAYBILL NUMBER: 8425 8908 7796		CITY, STATE

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: PPL VOCs + BTEX MTBE								COMMENTS
									6	HCL									
11/6	1550	KWTB-111403	—			QC	G	2	2										

1. RELINQUISHED BY	DATE 11/14/03	TIME 1640	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME
COMMENTS					

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

WT2410, WT2411, WT2412, WT2413

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 3878 | **PAGE** 1 **OF** 3

PROJECT NO: CTO 318	**FACILITY:** NAS Key West	**PROJECT MANAGER** Chuck Bryan	**PHONE NUMBER** 803-649-7963x345	**LABORATORY NAME AND CONTACT:** Katahdin Analytical - Andrea Colby
SAMPLERS (SIGNATURE) Emily McKee		**FIELD OPERATIONS LEADER** Emily McKee	**PHONE NUMBER** 305-219-1662	**ADDRESS** 340 County Rd. No. 5
		CARRIER/WAYBILL NUMBER 8425 8908 7800		**CITY, STATE** Westbrook, ME 04092

STANDARD TAT ☐
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☒ 14 day

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: PPL VOAs + BTEX, MTBE	TYPE OF ANALYSIS: PAH	COMMENTS
11/15	0740	G01-GS-23-1103	SB-23			GW	G	3	3				
11/15	0830	G01-GS-24-1103	SB-24			GW	G	3	3				
11/15	0900	G01-GS-25-1103	SB-25			GW	G	3	3				
11/15	1000	G01-GS-26-1103	SB-26			GW	G	3	3				
11/15	1040	G01-GS-27-1103	SB-27			GW	G	3	3				
11/15	0000	RW-DUP-03-1103				GW	G	3	3				
11/15	1115	G01-GS-28-1103	SB-28			GW	G	3	3				
11/15	1140	G01-GS-29-1103	SB-29			GW	G	3	3				
11/15	1220	G01-GS-30-1103	SB-30			GW	G	3	3				
11/15	1300	G01-GS-31-1103	SB-31			GW	G	5	3	2			
11/15	1345	G01-GS-32-1103	SB-32			GW	G	5	3	2			
11/16	0900	G01-GS-33-1103	SB-33			GW	G	5	3	2			
11/16	0940	G01-GS-34-1103	SB-34			GW	G	3	3				

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Emily McKee	11/17/03	1630	1. RECEIVED BY: [signature]	11-18-03	0805
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

1100000

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-3

Lab File ID: MB484 BFB Injection Date: 11/13/03

Instrument ID: GCMS-M BFB Injection Time: 1618

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.8
75	30.0 - 60.0% of mass 95	42.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	74.9
175	4.0 - 9.0% of mass 174	5.6 (7.5)1
176	95.0 - 101.0% of mass 174	73.3 (98.0)1
177	5.0 - 9.0% of mass 176	5.4 (7.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD005M13D	M1118	11/13/03	1731
02		VSTD001M13F	M1120	11/13/03	1836
03		VSTD020M13B	M1121	11/13/03	1909
04		VSTD200M13B	M1122	11/13/03	1941
05		VSTD100M13B	M1123	11/13/03	2014
06		VSTD050M13D	M1125	11/13/03	2119
07					
08					
09					
10					
11					
12					
13					
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15					
16					
17					
18					
19					
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21					
22					

Katahdin Analytical Services 1000026

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-3

Lab File ID: MB491 BFB Injection Date: 11/20/03

Instrument ID: GCMS-M BFB Injection Time: 0820

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.1
75	30.0 - 60.0% of mass 95	45.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	57.8
175	4.0 - 9.0% of mass 174	4.0 (6.9)1
176	95.0 - 101.0% of mass 174	56.8 (98.3)1
177	5.0 - 9.0% of mass 176	4.8 (8.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050M20A	M1222	11/20/03	0847
02	WG4702-LCS	WG4702-1	M1223	11/20/03	0934
03	WG4702-BLANK	WG4702-2	M1225	11/20/03	1045
04	G01-GS-23-1103	WT2910-1	M1237	11/20/03	1737
05	G01-GS-24-1103	WT2910-2	M1238	11/20/03	1809
06	G01-GS-25-1103	WT2910-3	M1239	11/20/03	1842
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-3

Instrument ID: GCMS-M Calibration Date: 11/20/03 Time: 0847

Lab File ID: M1222 Init. Calib. Date(s): 11/13/03 11/~~14~~13/03 KMB 120403

Init. Calib. Times: 1731 ~~0004~~ 2119

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Chloromethane	0.6630000	0.3492600	0.3492600	0.1	-47.32		AVRG	
Vinyl chloride	0.5180000	0.5612800	0.5612800	0.01	8.36	20.00	AVRG	
Bromomethane	23.326000	50.000000	0.1286800	0.01	-53.35		LINR	
Chloroethane	0.3110000	0.3443600	0.3443600	0.01	10.73		AVRG	
1,1-Dichloroethene	0.3760000	0.4313000	0.4313000	0.1	14.71	20.00	AVRG	
Methylene Chloride	60.651000	50.000000	0.6777400	0.01	21.30		LINR	
trans-1,2-Dichloroethene	0.5060000	0.6266700	0.6266700	0.01	23.85		AVRG	
Methyl tert-butyl ether	1.3720000	1.4609000	1.4609000	0.01	6.48		AVRG	
1,1-Dichloroethane	0.9260000	1.1425000	1.1425000	0.1	23.38		AVRG	
cis-1,2-Dichloroethene	0.5620000	0.6946300	0.6946300	0.01	23.60		AVRG	
Chloroform	0.9510000	1.0737000	1.0737000	0.01	12.90	20.00	AVRG	
Carbon Tetrachloride	0.3390000	0.3952800	0.3952800	0.01	16.60		AVRG	
1,1,1-Trichloroethane	0.7100000	0.8510700	0.8510700	0.01	19.87		AVRG	
Benzene	1.1740000	1.3906000	1.3906000	0.01	18.45		AVRG	
1,2-Dichloroethane	0.4000000	0.4553900	0.4553900	0.01	13.85		AVRG	
Trichloroethene	0.3290000	0.3791400	0.3791400	0.01	15.24		AVRG	
1,2-Dichloropropane	0.3230000	0.3733600	0.3733600	0.01	15.59	20.00	AVRG	
Bromodichloromethane	0.3960000	0.4648300	0.4648300	0.01	17.38		AVRG	
cis-1,3-dichloropropene	0.4910000	0.5808600	0.5808600	0.01	18.30		AVRG	
2-Chloroethylvinylether	51.042000	50.000000	0.1548000	0.01	2.08		LINR	
Toluene	0.7200000	0.8349200	0.8349200	0.01	15.96	20.00	AVRG	
Tetrachloroethene	0.2840000	0.2825300	0.2825300	0.01	-0.52		AVRG	
trans-1,3-Dichloropropene	0.4050000	0.4646200	0.4646200	0.01	14.72		AVRG	
1,1,2-Trichloroethane	0.2100000	0.2415400	0.2415400	0.01	15.02		AVRG	
Dibromochloromethane	0.3760000	0.4090100	0.4090100	0.01	8.78		AVRG	
Chlorobenzene	0.9850000	1.1133000	1.1133000	0.3	13.02		AVRG	
Ethylbenzene	1.6130000	1.8182000	1.8182000	0.01	12.72	20.00	AVRG	
Xylenes (total)	0.0000000	0.6924400	0.6924400	0.01	0.00		AVRG	<-
m+p-Xylenes	0.6160000	0.6979400	0.6979400	0.01	13.30		AVRG	

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-3

Instrument ID: GCMS-M Calibration Date: 11/20/03 Time: 0847

Lab File ID: M1222 Init. Calib. Date(s): 11/13/03 11/~~14~~13/03 KMB 120403

Init. Calib. Times: 1731 ~~0004~~ 2119

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
o-Xylene	0.6080000	0.6814500	0.6814500	0.01	12.08		AVRG
Bromoform	50.091000	50.000000	0.2367300	0.1	0.18		LINR
1,1,2,2-Tetrachloroethane	0.7540000	0.8470600	0.8470600	0.3	12.34		AVRG
Dibromofluoromethane	0.5770000	0.5814200	0.5814200	0.01	0.77		AVRG
1,2-Dichloroethane-D4	0.5830000	0.5722800	0.5722800	0.01	-1.84		AVRG
Toluene-D8	1.0720000	1.0453000	1.0453000	0.01	-2.49		AVRG
P-Bromofluorobenzene	0.4080000	0.3837000	0.3837000	0.01	-5.96		AVRG

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/20/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WG4702-2
Client ID: WG4702-Blank
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4702
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	1	1.0	1	1	0.3
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.1
74-83-9	Bromomethane	U	1	1.0	1	1	0.9
75-00-3	Chloroethane	U	1	1.0	1	1	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	J	0.2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		98%				
17060-07-0	1,2-Dichloroethane-D4		100%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/20/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4702-1
Client ID: WG4702-LCS
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4702
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	59		118	4-217
Chloromethane	50	NA	27		54	40-163
Vinyl chloride	50	NA	54		108	55-151
Bromomethane	50	NA	22		45	24-217
Chloroethane	50	NA	50		100	69-134
Trichlorofluoromethane	50	NA	49		99	71-147
Diethyl Ether	50	NA	50		100	67-135
Tertiary-butyl alcohol	250	NA	251		100	58-146
1,1-Dichloroethene	50	NA	63		127	78-136
Carbon Disulfide	50	NA	48		97	70-136
Freon-113	50	NA	53		106	60-140
Iodomethane	50	NA	26	*	52	60-140
Acrolein	250	NA	280		112	0-199
Methylene Chloride	50	NA	53		106	52-115
Acetone	50	NA	68		135	0-158
Isobutyl Alcohol	1000	NA	578	*	58	60-140
trans-1,2-Dichloroethene	50	NA	54		107	84-131
Allyl Chloride	50	NA	52		104	60-140
Methyl tert-butyl ether	100	NA	97		97	62-130
Acetonitrile	500	NA	488		98	53-141
Di-isopropyl ether	50	NA	54		109	82-130
Chloroprene	50	NA	53		107	60-140
Methacrylonitrile	500	NA	534		107	60-140
Propionitrile	500	NA	621		124	60-140
1,1-Dichloroethane	50	NA	54		109	81-134
Acrylonitrile	250	NA	286		114	29-172
Ethyl tertiary-butyl ether	50	NA	51		103	85-124
Vinyl Acetate	50	NA	40		81	68-174
cis-1,2-Dichloroethene	50	NA	51		103	84-123
1,2-Dichloroethylene (total)	100	NA	105		105	84-131
Methyl Methacrylate	50	NA	46		91	60-140
2,2-Dichloropropane	50	NA	56		112	69-150
Bromochloromethane	50	NA	42		84	77-146
Chloroform	50	NA	49		98	80-130
Carbon Tetrachloride	50	NA	52		104	74-137
Tetrahydrofuran	50	NA	60		120	32-140
1,1,1-Trichloroethane	50	NA	52		103	76-138
1,1-Dichloropropene	50	NA	52		104	82-120
2-Butanone	50	NA	92	*	184	49-154
Benzene	50	NA	51		102	88-120
Ethyl Methacrylate	50	NA	51		103	60-140
Methyl Acrylate	50	NA	30		60	60-140
Tertiary-amyl methyl ether	50	NA	50		100	85-125
1,2-Dichloroethane	50	NA	49		98	78-138
Trichloroethene	50	NA	48		97	80-125

FORM III VOA-1

M1223.D

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/20/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4702-1
Client ID: WG4702-LCS
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4702
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dibromomethane	50	NA	50	100	88-130
1,2-Dichloropropane	50	NA	50	99	80-122
Bromodichloromethane	50	NA	48	95	83-133
cis-1,3-dichloropropene	50	NA	49	98	81-138
2-Chloroethylvinylether	50	NA	47	94	50-211
Toluene	50	NA	49	99	88-121
4-methyl-2-pentanone	50	NA	47	93	72-140
Tetrachloroethene	50	NA	46	91	77-129
trans-1,3-Dichloropropene	50	NA	49	99	81-149
1,1,2-Trichloroethane	50	NA	49	98	82-126
Dibromochloromethane	50	NA	48	96	80-133
1,3-Dichloropropane	50	NA	48	96	86-125
1,2-Dibromoethane	50	NA	47	94	88-127
2-Hexanone	50	NA	62	123	45-146
Chlorobenzene	50	NA	50	100	84-123
Ethylbenzene	50	NA	49	98	84-134
1,1,1,2-Tetrachloroethane	50	NA	49	98	83-130
Xylenes (total)	150	NA	148	99	88-123
m+p-Xylenes	100	NA	98	98	88-122
o-Xylene	50	NA	49	98	90-123
Styrene	50	NA	47	95	87-131
Bromoform	50	NA	44	87	77-138
Isopropylbenzene	50	NA	52	104	88-125
cis-1,4-Dichloro-2-Butene	50	NA	50	99	60-140
trans-1,4-Dichloro-2-Butene	50	NA	47	95	60-140
Bromobenzene	50	NA	49	98	84-133
N-Propylbenzene	50	NA	50	101	88-124
2-bromo-1-chloropropane		NA			60-140
1,1,2,2-Tetrachloroethane	50	NA	49	97	81-131
1,3,5-Trimethylbenzene	50	NA	49	98	89-124
2-Chlorotoluene	50	NA	50	100	84-128
1,2,3-Trichloropropane	50	NA	47	94	76-132
4-Chlorotoluene	50	NA	50	100	86-132
tert-Butylbenzene	50	NA	47	94	82-131
Pentachloroethane	50	NA	57	113	60-140
1,2,4-Trimethylbenzene	50	NA	48	95	88-121
P-Isopropyltoluene	50	NA	48	97	86-122
1,3-Dichlorobenzene	50	NA	50	99	86-124
1,4-Dichlorobenzene	50	NA	48	95	80-127
N-Butylbenzene	50	NA	49	99	81-133
sec-Butylbenzene	50	NA	48	97	85-122
1,2-Dichlorobenzene	50	NA	48	95	86-126
1,2-Dibromo-3-Chloropropane	50	NA	45	90	61-136
1,3,5-Trichlorobenzene	50	NA	46	91	67-128
Hexachlorobutadiene	50	NA	42	83	52-129

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-3

Lab File ID: MB492 BFB Injection Date: 11/20/03

Instrument ID: GCMS-M BFB Injection Time: 2021

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.1
75	30.0 - 60.0% of mass 95	43.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	58.4
175	4.0 - 9.0% of mass 174	4.5 (7.7)1
176	95.0 - 101.0% of mass 174	56.6 (96.9)1
177	5.0 - 9.0% of mass 176	4.2 (7.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050M20C	M1242	11/20/03	2131
02	WG4717-LCS	WG4717-1	M1244	11/20/03	2243
03	WG4717-BLANK	WG4717-2	M1246	11/20/03	2349
04	G01-GS-26-1103	WT2910-4	M1254	11/21/03	0412
05	G01-GS-27-1103	WT2910-5	M1255	11/21/03	0445
06	KW-DUP-03-1103	WT2910-6	M1256	11/21/03	0518
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-3

Instrument ID: GCMS-M Calibration Date: 11/20/03 Time: 2131

Lab File ID: M1242 Init. Calib. Date(s): 11/13/03 11/~~14~~13/03 KMB 120403

Init. Calib. Times: 1731 ~~0004~~ 2119

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Chloromethane	0.6630000	0.3769400	0.3769400	0.1	-43.15		AVRG	
Vinyl chloride	0.5180000	0.5579100	0.5579100	0.01	7.70	20.00	AVRG	
Bromomethane	24.466000	50.000000	0.1367100	0.01	-51.07		LINR	
Chloroethane	0.3110000	0.3193800	0.3193800	0.01	2.69		AVRG	
1,1-Dichloroethene	0.3760000	0.4245500	0.4245500	0.1	12.91	20.00	AVRG	
Methylene Chloride	59.054000	50.000000	0.6604200	0.01	18.11		LINR	
trans-1,2-Dichloroethene	0.5060000	0.6199200	0.6199200	0.01	22.51		AVRG	
Methyl tert-butyl ether	1.3720000	1.5085000	1.5085000	0.01	9.95		AVRG	
1,1-Dichloroethane	0.9260000	1.1219000	1.1219000	0.1	21.16		AVRG	
cis-1,2-Dichloroethene	0.5620000	0.6712800	0.6712800	0.01	19.44		AVRG	
Chloroform	0.9510000	1.0361000	1.0361000	0.01	8.95	20.00	AVRG	
Carbon Tetrachloride	0.3390000	0.3922000	0.3922000	0.01	15.69		AVRG	
1,1,1-Trichloroethane	0.7100000	0.8385100	0.8385100	0.01	18.10		AVRG	
Benzene	1.1740000	1.3803000	1.3803000	0.01	17.57		AVRG	
1,2-Dichloroethane	0.4000000	0.4516500	0.4516500	0.01	12.91		AVRG	
Trichloroethene	0.3290000	0.3672800	0.3672800	0.01	11.64		AVRG	
1,2-Dichloropropane	0.3230000	0.3622600	0.3622600	0.01	12.16	20.00	AVRG	
Bromodichloromethane	0.3960000	0.4541700	0.4541700	0.01	14.69		AVRG	
cis-1,3-dichloropropene	0.4910000	0.5672600	0.5672600	0.01	15.53		AVRG	
2-Chloroethylvinylether	55.913000	50.000000	0.1702200	0.01	11.83		LINR	
Toluene	0.7200000	0.8187800	0.8187800	0.01	13.72	20.00	AVRG	
Tetrachloroethene	0.2840000	0.2868400	0.2868400	0.01	1.00		AVRG	
trans-1,3-Dichloropropene	0.4050000	0.4687700	0.4687700	0.01	15.75		AVRG	
1,1,2-Trichloroethane	0.2100000	0.2452800	0.2452800	0.01	16.80		AVRG	
Dibromochloromethane	0.3760000	0.4176800	0.4176800	0.01	11.08		AVRG	
Chlorobenzene	0.9850000	1.1110000	1.1110000	0.3	12.79		AVRG	
Ethylbenzene	1.6130000	1.8314000	1.8314000	0.01	13.54	20.00	AVRG	
Xylenes (total)	0.0000000	0.6992600	0.6992600	0.01	0.00		AVRG	<-
m+p-Xylenes	0.6160000	0.7109200	0.7109200	0.01	15.41		AVRG	

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-3

Instrument ID: GCMS-M Calibration Date: 11/20/03 Time: 2131

Lab File ID: M1242 Init. Calib. Date(s): 11/13/03 11/~~14~~13/03

Init. Calib. Times: 1731 ~~0004~~ 2119

KMB 120403

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
o-Xylene	0.6080000	0.6759600	0.6759600	0.01	11.18		AVRG
Bromoform	52.033000	50.000000	0.2463400	0.1	4.07		LINR
1,1,2,2-Tetrachloroethane	0.7540000	0.9052600	0.9052600	0.3	20.06		AVRG
Dibromofluoromethane	0.5770000	0.5563500	0.5563500	0.01	-3.58		AVRG
1,2-Dichloroethane-D4	0.5830000	0.5466600	0.5466600	0.01	-6.23		AVRG
Toluene-D8	1.0720000	1.0132000	1.0132000	0.01	-5.48		AVRG
P-Bromofluorobenzene	0.4080000	0.3790100	0.3790100	0.01	-7.10		AVRG

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/20/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WG4717-2
Client ID: WG4717-BLANK
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4717
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	1	1.0	1	1	0.3
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.1
74-83-9	Bromomethane	U	1	1.0	1	1	0.9
75-00-3	Chloroethane	U	1	1.0	1	1	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	J	0.3	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	J	0.3	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		97%				
17060-07-0	1,2-Dichloroethane-D4		98%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/20/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4717-1
Client ID: WG4717-LCS
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4717
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	62		125	4-217
Chloromethane	50	NA	26		51	40-163
Vinyl chloride	50	NA	58		116	55-151
Bromomethane	50	NA	24		48	24-217
Chloroethane	50	NA	53		105	69-134
Trichlorofluoromethane	50	NA	52		105	71-147
Diethyl Ether	50	NA	52		105	67-135
Tertiary-butyl alcohol	250	NA	262		105	58-146
1,1-Dichloroethene	50	NA	67		135	78-136
Carbon Disulfide	50	NA	52		103	70-136
Freon-113	50	NA	54		108	60-140
Iodomethane	50	NA	30	*	59	60-140
Acrolein	250	NA	309		124	0-199
Methylene Chloride	50	NA	55		110	52-115
Acetone	50	NA	82	*	163	0-158
Isobutyl Alcohol	1000	NA	674		67	60-140
trans-1,2-Dichloroethene	50	NA	58		116	84-131
Allyl Chloride	50	NA	54		108	60-140
Methyl tert-butyl ether	100	NA	103		103	62-130
Acetonitrile	500	NA	570		114	53-141
Di-isopropyl ether	50	NA	55		110	82-130
Chloroprene	50	NA	54		109	60-140
Methacrylonitrile	500	NA	571		114	60-140
Propionitrile	500	NA	729	*	146	60-140
1,1-Dichloroethane	50	NA	57		115	81-134
Acrylonitrile	250	NA	305		122	29-172
Ethyl tertiary-butyl ether	50	NA	53		107	85-124
Vinyl Acetate	50	NA	41		82	68-174
cis-1,2-Dichloroethene	50	NA	54		108	84-123
1,2-Dichloroethylene (total)	100	NA	112		112	84-131
Methyl Methacrylate	50	NA	49		99	60-140
2,2-Dichloropropane	50	NA	56		112	69-150
Bromochloromethane	50	NA	46		91	77-146
Chloroform	50	NA	51		102	80-130
Carbon Tetrachloride	50	NA	54		109	74-137
Tetrahydrofuran	50	NA	66		133	32-140
1,1,1-Trichloroethane	50	NA	55		111	76-138
1,1-Dichloropropene	50	NA	54		107	82-120
2-Butanone	50	NA	98	*	197	49-154
Benzene	50	NA	54		107	88-120
Ethyl Methacrylate	50	NA	53		107	60-140
Methyl Acrylate	50	NA	31		63	60-140
Tertiary-amyl methyl ether	50	NA	53		105	85-125
1,2-Dichloroethane	50	NA	51		102	78-138
Trichloroethene	50	NA	51		103	80-125

Katahdin Analytical Services 1000016

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/20/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4717-1
Client ID: WG4717-LCS
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4717
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dibromomethane	50	NA	53	107	88-130
1,2-Dichloropropane	50	NA	52	104	80-122
Bromodichloromethane	50	NA	48	96	83-133
cis-1,3-dichloropropene	50	NA	50	99	81-138
2-Chloroethylvinylether	50	NA	33	67	50-211
Toluene	50	NA	52	104	88-121
4-methyl-2-pentanone	50	NA	52	104	72-140
Tetrachloroethene	50	NA	53	106	77-129
trans-1,3-Dichloropropene	50	NA	51	101	81-149
1,1,2-Trichloroethane	50	NA	51	102	82-126
Dibromochloromethane	50	NA	50	100	80-133
1,3-Dichloropropane	50	NA	51	102	86-125
1,2-Dibromoethane	50	NA	51	102	88-127
2-Hexanone	50	NA	67	134	45-146
Chlorobenzene	50	NA	51	103	84-123
Ethylbenzene	50	NA	50	100	84-134
1,1,1,2-Tetrachloroethane	50	NA	50	100	83-130
Xylenes (total)	150	NA	154	103	88-123
m+p-Xylenes	100	NA	103	103	88-122
o-Xylene	50	NA	51	102	90-123
Styrene	50	NA	49	98	87-131
Bromoform	50	NA	46	91	77-138
Isopropylbenzene	50	NA	53	107	88-125
cis-1,4-Dichloro-2-Butene	50	NA	45	90	60-140
trans-1,4-Dichloro-2-Butene	50	NA	45	90	60-140
Bromobenzene	50	NA	50	99	84-133
N-Propylbenzene	50	NA	51	102	88-124
2-bromo-1-chloropropane		NA			60-140
1,1,2,2-Tetrachloroethane	50	NA	52	103	81-131
1,3,5-Trimethylbenzene	50	NA	50	101	89-124
2-Chlorotoluene	50	NA	51	103	84-128
1,2,3-Trichloropropane	50	NA	50	101	76-132
4-Chlorotoluene	50	NA	51	101	86-132
tert-Butylbenzene	50	NA	49	98	82-131
Pentachloroethane	50	NA	50	100	60-140
1,2,4-Trimethylbenzene	50	NA	48	96	88-121
P-Isopropyltoluene	50	NA	49	97	86-122
1,3-Dichlorobenzene	50	NA	50	101	86-124
1,4-Dichlorobenzene	50	NA	50	100	80-127
N-Butylbenzene	50	NA	48	97	81-133
sec-Butylbenzene	50	NA	49	98	85-122
1,2-Dichlorobenzene	50	NA	50	99	86-126
1,2-Dibromo-3-Chloropropane	50	NA	47	93	61-136
1,3,5-Trichlorobenzene	50	NA	45	91	67-128
Hexachlorobutadiene	50	NA	39	77	52-129

FORM III VOA-1

M1244.D

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/20/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4717-1
Client ID: WG4717-LCS
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4717
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	39	77	53-157
1,2,3-Trimethylbenzene	50	NA	53	106	60-140
Naphthalene	50	NA	35	69	45-151
1,2,3-Trichlorobenzene	50	NA	31	61	30-164
Methyl Acetate	50	NA	65	131	60-140
Methylcyclohexane	50	NA	49	98	60-140

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-3

Lab File ID: SB530 BFB Injection Date: 11/07/03

Instrument ID: GCMS-S BFB Injection Time: 0825

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.6
75	30.0 - 60.0% of mass 95	49.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	88.7
175	4.0 - 9.0% of mass 174	3.7 (4.1)1
176	95.0 - 101.0% of mass 174	87.7 (98.8)1
177	5.0 - 9.0% of mass 176	4.7 (5.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050S07B	S8810	11/07/03	0936
02		VSTD200S07A	S8811	11/07/03	1031
03		VSTD100S07A	S8812	11/07/03	1106
04		VSTD020S07A	S8813	11/07/03	1141
05		VSTD001S07B	S8816	11/07/03	1326
06		VSTD005S07B	S8817	11/07/03	1401
07					
08					
09					
10					
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-3

Lab File ID: SB541 BFB Injection Date: 11/19/03

Instrument ID: GCMS-S BFB Injection Time: 0828

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.4
75	30.0 - 60.0% of mass 95	42.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	83.2
175	4.0 - 9.0% of mass 174	4.1 (4.9)1
176	95.0 - 101.0% of mass 174	83.0 (99.7)1
177	5.0 - 9.0% of mass 176	5.1 (6.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050S19C	S8996	11/19/03	1024
02	WG4669-LCS	WG4669-1	S8997	11/19/03	1104
03	WG4669-BLANK	WG4669-2	S8999	11/19/03	1220
04	G01-GS-11-1103	WT2898-1	S9000	11/19/03	1300
05	G01-GS-12-1103	WT2898-2	S9001	11/19/03	1336
06	G01-GS-16-1103	WT2898-3	S9002	11/19/03	1411
07	G01-GS-19-1103	WT2898-4	S9003	11/19/03	1446
08	G01-GS-22-1103	WT2898-5	S9004	11/19/03	1521
09	G01-GS-13-1103	WT2898-6	S9005	11/19/03	1556
10	G01-GS-14-1103	WT2898-7	S9006	11/19/03	1631
11	G01-GS-15-1103	WT2898-8	S9007	11/19/03	1706
12	KW-DUP-02-1103	WT2898-9	S9008	11/19/03	1742
13	G01-GS-17-1103	WT2898-10	S9009	11/19/03	1817
14	G01-GS-18-1103	WT2898-11	S9010	11/19/03	1852
15	G01-GS-21-1103	WT2898-13	S9011	11/19/03	1927
16					
17					
18					
19					
20					
21					
22					

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/19/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WG4669-2
Client ID: WG4669-BLANK
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4669
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	1	1.0	1	1	0.3
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.1
74-83-9	Bromomethane	U	1	1.0	1	1	0.9
75-00-3	Chloroethane	U	1	1.0	1	1	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	J	0.8	1.0	3	3	0.3
	m+p-Xylenes	J	0.6	1.0	2	2	0.2
95-47-6	o-Xylene	J	0.2	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		78%				
17060-07-0	1,2-Dichloroethane-D4		77%				
2037-26-5	Toluene-D8		88%				
460-00-4	P-Bromofluorobenzene		84%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/19/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4669-1
Client ID: WG4669-LCS
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4669
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	43		86	4-217
Chloromethane	50	NA	39		79	40-163
Vinyl chloride	50	NA	40		81	55-151
Bromomethane	50	NA	37		74	24-217
Chloroethane	50	NA	45		90	69-134
Trichlorofluoromethane	50	NA	35	*	70	71-147
Diethyl Ether	50	NA	46		92	67-135
Tertiary-butyl alcohol	250	NA	234		94	58-146
1,1-Dichloroethene	50	NA	46		92	78-136
Carbon Disulfide	50	NA	34	*	67	70-136
Freon-113	50	NA	43		85	60-140
Iodomethane	50	NA	43		86	60-140
Acrolein	250	NA	227		91	0-199
Methylene Chloride	50	NA	48		96	52-115
Acetone	50	NA	54		108	0-158
Isobutyl Alcohol	1000	NA	822		82	60-140
trans-1,2-Dichloroethene	50	NA	44		88	84-131
Allyl Chloride	50	NA	54		108	60-140
Methyl tert-butyl ether	100	NA	86		86	62-130
Acetonitrile	500	NA	421		84	53-141
Di-isopropyl ether	50	NA	47		95	82-130
Hexane		NA				60-140
Chloroprene	50	NA	42		84	60-140
Methacrylonitrile	500	NA	500		100	60-140
Propionitrile	500	NA	491		98	60-140
1,1-Dichloroethane	50	NA	42		85	81-134
Acrylonitrile	250	NA	244		98	29-172
Ethyl tertiary-butyl ether	50	NA	47		94	85-124
Vinyl Acetate	50	NA	35		70	68-174
cis-1,2-Dichloroethene	50	NA	44		88	84-123
1,2-Dichloroethylene (total)	100	NA	88		88	84-131
Methyl Methacrylate	50	NA	52		104	60-140
2,2-Dichloropropane	50	NA	40		79	69-150
Bromochloromethane	50	NA	42		84	77-146
Chloroform	50	NA	40		80	80-130
Carbon Tetrachloride	50	NA	40		80	74-137
Tetrahydrofuran	50	NA	46		92	32-140
1,1,1-Trichloroethane	50	NA	41		81	76-138
1,1-Dichloropropene	50	NA	42		84	82-120
2-Butanone	50	NA	64		128	49-154
Benzene	50	NA	43	*	86	88-120
Cyclohexane		NA				50-140
Ethyl Methacrylate	50	NA	48		97	60-140
Methyl Acrylate		NA				60-140
Tertiary-amyl methyl ether	50	NA	49		99	85-125

Katahdin Analytical Services 1000019

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/19/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4669-1
Client ID: WG4669-LCS
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4669
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
1,2-Dichloroethane	50	NA	39		79	78-138
Trichloroethene	50	NA	40		81	80-125
Dibromomethane	50	NA	44		89	88-130
1,2-Dichloropropane	50	NA	45		89	80-122
Bromodichloromethane	50	NA	39	*	79	83-133
cis-1,3-dichloropropene	50	NA	44		89	81-138
1-Chlorohexane	50	NA	0.00	*	0	75-125
1,4-Dioxane	1000	NA	944		94	60-140
2-Chloroethylvinylether	50	NA	15	*	31	50-211
Toluene	50	NA	46		91	88-121
4-methyl-2-pentanone	50	NA	47		93	72-140
Tetrachloroethene	50	NA	43		86	77-129
trans-1,3-Dichloropropene	50	NA	45		90	81-149
1,1,2-Trichloroethane	50	NA	44		88	82-126
Dibromochloromethane	50	NA	45		91	80-133
1,3-Dichloropropane	50	NA	45		91	86-125
1,2-Dibromoethane	50	NA	46		92	88-127
2-Hexanone	50	NA	52		104	45-146
Chlorobenzene	50	NA	44		89	84-123
Ethylbenzene	50	NA	44		87	84-134
1,1,1,2-Tetrachloroethane	50	NA	43		86	83-130
Xylenes (total)	150	NA	139		93	88-123
m+p-Xylenes	100	NA	91		91	88-122
o-Xylene	50	NA	48		95	90-123
Styrene	50	NA	45		91	87-131
Bromoform	50	NA	46		92	77-138
Isopropylbenzene	50	NA	50		100	88-125
cis-1,4-Dichloro-2-Butene	50	NA	52		104	60-140
trans-1,4-Dichloro-2-Butene	50	NA	49		97	60-140
Bromobenzene	50	NA	47		93	84-133
N-Propylbenzene	50	NA	48		97	88-124
2-bromo-1-chloropropane		NA				60-140
1,1,2,2-Tetrachloroethane	50	NA	48		97	81-131
1,3,5-Trimethylbenzene	50	NA	48		96	89-124
2-Chlorotoluene	50	NA	48		97	84-128
1,2,3-Trichloropropane	50	NA	47		94	76-132
4-Chlorotoluene	50	NA	49		97	86-132
tert-Butylbenzene	50	NA	50		100	82-131
Pentachloroethane	50	NA	44		88	60-140
1,2,4-Trimethylbenzene	50	NA	46		92	88-121
P-Isopropyltoluene	50	NA	47		94	86-122
1,3-Dichlorobenzene	50	NA	48		96	86-124
1,4-Dichlorobenzene	50	NA	46		92	80-127
N-Butylbenzene	50	NA	45		90	81-133
sec-Butylbenzene	50	NA	46		91	85-122

FORM III VOA-1

S8997.D

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/19/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4669-1
Client ID: WG4669-LCS
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG4669
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
1,2-Dichlorobenzene	50	NA	47	94	86-126
1,2-Dibromo-3-Chloropropane	50	NA	42	84	61-136
1,3,5-Trichlorobenzene	50	NA	43	87	67-128
Hexachlorobutadiene	50	NA	36	71	52-129
1,2,4-Trichlorobenzene	50	NA	41	83	53-157
1,2,3-Trimethylbenzene	50	NA	45	90	60-140
Naphthalene	50	NA	32	63	45-151
1,2,3-Trichlorobenzene	50	NA	33	66	30-164
Methyl Acetate	50	NA	56	112	60-140
Methylcyclohexane	50	NA	47	94	60-140

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-3

Lab File ID: ZB654 BFB Injection Date: 11/10/03

Instrument ID: GCMS-Z BFB Injection Time: 0757

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.3
75	30.0 - 60.0% of mass 95	47.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	90.6
175	4.0 - 9.0% of mass 174	7.6 (8.4)1
176	95.0 - 101.0% of mass 174	87.7 (96.8)1
177	5.0 - 9.0% of mass 176	5.1 (5.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050Z10B	Z8892	11/10/03	1007
02		VSTD020Z10A	Z8893	11/10/03	1044
03		VSTD005Z10A	Z8894	11/10/03	1121
04		VSTD200Z10A	Z8897	11/10/03	1311
05		VSTD001Z10C	Z8902	11/10/03	1641
06		VSTD100Z10B	Z8905	11/10/03	1832
07					
08					
09					
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-3

Lab File ID: ZB666 BFB Injection Date: 11/21/03

Instrument ID: GCMS-Z BFB Injection Time: 0633

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.9
75	30.0 - 60.0% of mass 95	47.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	73.7
175	4.0 - 9.0% of mass 174	5.4 (7.3)1
176	95.0 - 101.0% of mass 174	72.0 (97.7)1
177	5.0 - 9.0% of mass 176	4.4 (6.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050Z21B	Z9099	11/21/03	0741
02	WG4724-LCS	WG4724-1	Z9100	11/21/03	0819
03	WG4724-BLANK	WG4724-2	Z9104	11/21/03	1111
04	G01-GS-20-1103	WT2898-12	Z9109	11/21/03	1417
05	KWTB-111403	WT2898-14	Z9110	11/21/03	1454
06	G01-GS-21-1103MS	WG4724-3	Z9111	11/21/03	1532
07	G01-GS-21-1103MSD	WG4724-4	Z9112	11/21/03	1609
08					
09					
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FORM V VOA

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WG4724-2
Client ID: WG4724-Blank
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4724
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	1	1.0	1	1	0.3
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.1
74-83-9	Bromomethane	U	1	1.0	1	1	0.9
75-00-3	Chloroethane	U	1	1.0	1	1	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
108-88-3	Toluene	J	1.0	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
1330-20-7	Xylenes (total)	J	2	1.0	3	3	0.3
	m+p-Xylenes	J	2	1.0	2	2	0.2
95-47-6	o-Xylene	J	0.8	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1868-53-7	Dibromofluoromethane		98%				
17060-07-0	1,2-Dichloroethane-D4		94%				
2037-26-5	Toluene-D8		108%				
460-00-4	P-Bromofluorobenzene		104%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4724-1
Client ID: WG4724-LCS
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4724
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	49		98	4-217
Chloromethane	50	NA	43		87	40-163
Vinyl chloride	50	NA	45		90	55-151
Bromomethane	50	NA	47		95	24-217
Chloroethane	50	NA	40		80	69-134
Trichlorofluoromethane	50	NA	41		82	71-147
Diethyl Ether	50	NA	43		85	67-135
Tertiary-butyl alcohol	250	NA	237		95	58-146
1,1-Dichloroethene	50	NA	48		96	78-136
Carbon Disulfide	50	NA	35	*	69	70-136
Freon-113	50	NA	44		87	60-140
Iodomethane	50	NA	51		102	60-140
Acrolein	250	NA	208		83	0-199
Methylene Chloride	50	NA	44		88	52-115
Acetone	50	NA	63		127	0-158
Isobutyl Alcohol	1000	NA	965		96	60-140
trans-1,2-Dichloroethene	50	NA	46		91	84-131
Allyl Chloride	50	NA	38		75	60-140
Methyl tert-butyl ether	100	NA	88		88	62-130
Acetonitrile	500	NA	404		81	53-141
Di-isopropyl ether	50	NA	42		83	82-130
Chloroprene	50	NA	42		85	60-140
Methacrylonitrile	500	NA	443		89	60-140
Propionitrile	500	NA	435		87	60-140
1,1-Dichloroethane	50	NA	41		83	81-134
Acrylonitrile	250	NA	214		86	29-172
Ethyl tertiary-butyl ether	50	NA	47		95	85-124
Vinyl Acetate	50	NA	37		73	68-174
cis-1,2-Dichloroethene	50	NA	46		91	84-123
1,2-Dichloroethylene (total)	100	NA	91		91	84-131
Methyl Methacrylate	50	NA	48		95	60-140
2,2-Dichloropropane	50	NA	48		96	69-150
Bromochloromethane	50	NA	45		89	77-146
Chloroform	50	NA	42		84	80-130
Carbon Tetrachloride	50	NA	49		98	74-137
Tetrahydrofuran	50	NA	44		88	32-140
1,1,1-Trichloroethane	50	NA	46		91	76-138
1,1-Dichloropropene	50	NA	51		101	82-120
2-Butanone	50	NA	68		137	49-154
Benzene	50	NA	47		93	88-120
Ethyl Methacrylate	50	NA	51		102	60-140
Methyl Acrylate	50	NA	0.00	*	0	60-140
Tertiary-amyl methyl ether	50	NA	47		93	85-125
1,2-Dichloroethane	50	NA	45		90	78-138
Trichloroethene	50	NA	46		93	80-125

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4724-1
Client ID: WG4724-LCS
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4724
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dibromomethane	50	NA	48	95	88-130
1,2-Dichloropropane	50	NA	44	88	80-122
Bromodichloromethane	50	NA	44	87	83-133
cis-1,3-dichloropropene	50	NA	47	95	81-138
1,4-Dioxane	1000	NA	964	96	60-140
2-Chloroethylvinylether	50	NA	24	* 49	50-211
Toluene	50	NA	50	101	88-121
4-methyl-2-pentanone	50	NA	52	104	72-140
Tetrachloroethene	50	NA	48	95	77-129
trans-1,3-Dichloropropene	50	NA	49	99	81-149
1,1,2-Trichloroethane	50	NA	46	92	82-126
Dibromochloromethane	50	NA	48	96	80-133
1,3-Dichloropropane	50	NA	47	94	86-125
1,2-Dibromoethane	50	NA	50	99	88-127
2-Hexanone	50	NA	56	112	45-146
Chlorobenzene	50	NA	47	93	84-123
Ethylbenzene	50	NA	46	92	84-134
1,1,1,2-Tetrachloroethane	50	NA	47	93	83-130
Xylenes (total)	150	NA	154	103	88-123
m+p-Xylenes	100	NA	104	104	88-122
o-Xylene	50	NA	50	101	90-123
Styrene	50	NA	45	91	87-131
Bromoform	50	NA	53	107	77-138
Isopropylbenzene	50	NA	46	91	88-125
cis-1,4-Dichloro-2-Butene	50	NA	53	106	60-140
trans-1,4-Dichloro-2-Butene	50	NA	46	93	60-140
Bromobenzene	50	NA	49	98	84-133
N-Propylbenzene	50	NA	46	92	88-124
2-bromo-1-chloropropane		NA			60-140
1,1,2,2-Tetrachloroethane	50	NA	45	91	81-131
1,3,5-Trimethylbenzene	50	NA	45	90	89-124
2-Chlorotoluene	50	NA	48	96	84-128
1,2,3-Trichloropropane	50	NA	48	97	76-132
4-Chlorotoluene	50	NA	46	93	86-132
tert-Butylbenzene	50	NA	42	85	82-131
Pentachloroethane	50	NA	50	100	60-140
1,2,4-Trimethylbenzene	50	NA	44	88	88-121
P-Isopropyltoluene	50	NA	44	89	86-122
1,3-Dichlorobenzene	50	NA	46	92	86-124
1,4-Dichlorobenzene	50	NA	45	91	80-127
N-Butylbenzene	50	NA	43	86	81-133
sec-Butylbenzene	50	NA	45	90	85-122
1,2-Dichlorobenzene	50	NA	48	96	86-126
1,2-Dibromo-3-Chloropropane	50	NA	43	86	61-136
1,3,5-Trichlorobenzene	50	NA	44	88	67-128

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/14/03
Received Date: 11/15/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4724-3 & WG4724-4
Client ID: G01-GS-21-1103MS & G01-GS-21-1103MSD
SDG: CTO318-3
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4724
Units: ug/l

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Chloromethane	50	50	0.00	42	42	85	85	0.5	20	60-140
Vinyl chloride	50	50	0.00	49	49	98	97	0.4	20	60-140
Bromomethane	50	50	0.00	13	12	* 25	* 23	9	20	60-140
Chloroethane	50	50	0.00	43	43	86	86	0.2	20	60-140
1,1-Dichloroethene	50	50	0.00	52	52	103	104	1	20	44-167
Methylene Chloride	50	50	0.00	45	44	89	88	0.9	20	60-140
trans-1,2-Dichloroethene	50	50	0.00	46	46	92	92	0.2	20	60-140
Methyl tert-butyl ether	100	100	0.00	93	90	93	90	3	20	60-140
1,1-Dichloroethane	50	50	0.00	45	43	89	86	4	20	60-140
cis-1,2-Dichloroethene	50	50	0.00	47	45	93	91	3	20	60-140
Chloroform	50	50	0.00	42	42	83	83	0.0	20	60-140
Carbon Tetrachloride	50	50	0.00	49	51	99	103	4	20	60-140
1,1,1-Trichloroethane	50	50	0.00	47	48	94	96	2	20	60-140
Benzene	50	50	0.00	46	48	92	95	3	20	64-140
1,2-Dichloroethane	50	50	0.00	43	44	86	88	2	20	60-140
Trichloroethene	50	50	0.00	46	47	93	95	2	20	62-134
1,2-Dichloropropane	50	50	0.00	42	44	85	89	4	20	60-140
Bromodichloromethane	50	50	0.00	42	45	85	90	6	20	60-140
cis-1,3-dichloropropene	50	50	0.00	17	17	* 34	* 34	0.6	20	60-140
2-Chloroethylvinylether	50	50	0.00	25	26	* 50	* 52	3	20	60-140
Toluene	50	50	0.29	50	52	99	103	4	20	65-142
Tetrachloroethene	50	50	0.00	52	55	104	111	6	20	60-140
trans-1,3-Dichloropropene	50	50	0.00	37	38	74	76	2	20	60-140
1,1,2-Trichloroethane	50	50	0.00	44	46	89	91	3	20	60-140
Dibromochloromethane	50	50	0.00	48	50	96	100	3	20	60-140
Chlorobenzene	50	50	0.00	46	47	92	94	2	20	68-140
Ethylbenzene	50	50	0.53	44	47	87	92	6	20	60-140
Xylenes (total)	150	150	0.69	152	155	101	103	2	20	60-140
m+p-Xylenes	100	100	0.45	103	105	102	104	2	20	60-140
o-Xylene	50	50	0.24	49	50	97	100	4	20	60-140
Bromoform	50	50	0.00	54	55	109	110	0.5	20	60-140
1,1,2,2-Tetrachloroethane	50	50	0.00	48	46	95	93	2	20	60-140

FORM III VOA-1

Z9111.D & Z9112.D

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-3

Lab File ID: UD528 DFTPP Injection Date: 11/12/03

Instrument ID: GCMS-U DFTPP Injection Time: 1145

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	31.9
68	Less than 2.0% of mass 69	0.9 (1.7)1
69	Less than 100.0% of mass 198	53.7
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	40.0 - 60.0% of mass 198	51.5
197	Less than 1.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.2
275	10.0 - 30.0% of mass 198	22.5
365	1.0 - 100.0% of mass 198	2.7
441	0.0 - 100.0% of mass 443	8.5 (54.6)2
442	40.0 - 100.0% of mass 198	77.8
443	17.0 - 23.0% of mass 442	15.5 (20.0)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050U1112	U5287	11/12/03	1204
02		SSTD200U1112	U5288	11/12/03	1255
03		SSTD010U1112	U5289	11/12/03	1340
04		SSTD020U1112	U5290	11/12/03	1425
05		SSTD120U1112	U5291	11/12/03	1511
06		SSTD160U1112	U5292	11/12/03	1555
07					
08					
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20					

FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-3

Lab File ID: UD543 DFTPP Injection Date: 12/02/03

Instrument ID: GCMS-U DFTPP Injection Time: 1056

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	32.6
68	Less than 2.0% of mass 69	1.0 (1.7)1
69	Less than 100.0% of mass 198	56.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	53.1
197	Less than 1.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	20.9
365	1.0 - 100.0% of mass 198	2.5
441	0.0 - 100.0% of mass 443	11.6 (78.1)2
442	40.0 - 100.0% of mass 198	78.1
443	17.0 - 23.0% of mass 442	14.8 (19.0)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050U1202	U5518	12/02/03	1115
02	WG4621-BLANK	WG4621-1RA	U5519	12/02/03	1202
03	G01-GS-11-1103	WT2898-1RA	U5520	12/02/03	1246
04	G01-GS-12-1103	WT2898-2DL	U5521	12/02/03	1330
05	G01-GS-16-1103	WT2898-3DL	U5522	12/02/03	1415
06	G01-GS-19-1103	WT2898-4RA	U5523	12/02/03	1459
07	G01-GS-22-1103	WT2898-5DL2	U5527	12/02/03	1756
08					
09					
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18					
19					
20					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-3

Lab File ID: KD225 DFTPP Injection Date: 11/28/03

Instrument ID: GCMS-K DFTPP Injection Time: 0840

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	72.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	45.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	19.6
365	1.0 - 100.0% of mass 198	2.0
441	0.0 - 100.0% of mass 443	13.5 (84.4)2
442	40.0 - 100.0% of mass 198	84.3
443	17.0 - 23.0% of mass 442	16.0 (19.0)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD0.125K1128	K5815	11/28/03	1004
02		SSTD0.625K1128	K5816	11/28/03	1053
03		SSTD2.00K1128	K5817	11/28/03	1144
04		SSTD2.50K1128	K5818	11/28/03	1234
05		SSTD3.00K1128	K5819	11/28/03	1324
06		SSTD1.25K1128	K5820	11/28/03	1414
07					
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18					
19					
20					

FORM 2
WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-3

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	WG4621-BLANK	WG4621-1	78	72	260*						1
02	WG4621-LCS	WG4621-2	72	55	127						0
03	WG4621-LCSD	WG4621-3	72	64	123						0
04	G01-GS-11-1103	WT2898-1	122	64	77						0
05	G01-GS-12-1103	WT2898-2	82	73	75						0
06	G01-GS-16-1103	WT2898-3	87	67	100						0
07	G01-GS-19-1103	WT2898-4	80	47	71						0
08	G01-GS-22-1103	WT2898-5	0*	0*	0*						3
09											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

		QC LIMITS
S1	= 2-Methylnaphthalene-d1	(30-150)
S2	= Fluorene-d10	(30-150)
S3	= Pyrene-d10	(30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-3

Lab File ID: KD226 DFTPP Injection Date: 12/01/03

Instrument ID: GCMS-K DFTPP Injection Time: 0852

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	54.8
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	41.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	25.3
365	1.0 - 100.0% of mass 198	2.3
441	0.0 - 100.0% of mass 443	9.0 (73.3)2
442	40.0 - 100.0% of mass 198	54.2
443	17.0 - 23.0% of mass 442	12.3 (22.7)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.25K1201	K5821	12/01/03	0917
02	WG4621-BLANK	WG4621-1	K5824	12/01/03	1152
03	WG4621-LCS	WG4621-2	K5825	12/01/03	1241
04	WG4621-LCSD	WG4621-3	K5826	12/01/03	1333
05	G01-GS-11-1103	WT2898-1	K5829	12/01/03	1602
06	G01-GS-12-1103	WT2898-2	K5830	12/01/03	1653
07	G01-GS-16-1103	WT2898-3	K5831	12/01/03	1743
08	G01-GS-19-1103	WT2898-4	K5832	12/01/03	1833
09	G01-GS-22-1103	WT2898-5	K5833	12/01/03	1923
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-3

Instrument ID: GCMS-K Calibration Date: 12/01/03 Time: 0917

Lab File ID: K5821 Init. Calib. Date(s): 11/28/03 11/28/03

Init. Calib. Times: 0906 1414

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.2500 or AMOUNT	CCAL RRF1.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Naphthalene	0.9590000	0.9116800	0.9116800	0.01	-4.93		AVRG
2-Methylnaphthalene	0.4990000	0.4682900	0.4682900	0.01	-6.15		AVRG
Acenaphthylene	1.6890000	1.5942000	1.5942000	0.01	-5.61		AVRG
Acenaphthene	1.1220000	1.0513000	1.0513000	0.01	-6.30	20.00	AVRG
Fluorene	1.0660000	1.0567000	1.0567000	0.01	-0.87		AVRG
Phenanthrene	0.8900000	0.8425500	0.8425500	0.01	-5.33		AVRG
Anthracene	0.9760000	0.8729900	0.8729900	0.01	-10.55		AVRG
Fluoranthene	0.8950000	0.8888900	0.8888900	0.01	-0.68	20.00	AVRG
Pyrene	3.1032000	1.2500000	2.6712000	0.01	148.26		2RDR
Benzo(a)anthracene	1.1480000	1.0593000	1.0593000	0.01	-7.73		AVRG
Chrysene	1.1659000	1.2500000	1.1425000	0.01	-6.73		LINR
Benzo(b)fluoranthene	1.2460000	1.2116000	1.2116000	0.01	-2.76		AVRG
Benzo(k)fluoranthene	1.2155000	1.2500000	1.3004000	0.01	-2.76		2RDR
Benzo(a)pyrene	1.3049000	1.2500000	1.0261000	0.01	4.39		LINR
Indeno(1,2,3-cd)pyrene	0.9870000	0.9893900	0.9893900	0.01	0.24		AVRG
Dibenzo(a,h)anthracene	0.9350000	0.8789200	0.8789200	0.01	-6.00		AVRG
Benzo(g,h,i)perylene	1.0640000	0.9315100	0.9315100	0.01	-12.45		AVRG
1-Methylnaphthalene	0.5070000	0.4312300	0.4312300	0.01	-14.94		AVRG
2-Methylnaphthalene-d10	0.3550000	0.3305200	0.3305200	0.01	-6.90		AVRG
Fluorene-d10	0.9520000	0.9692600	0.9692600	0.01	1.81		AVRG
Pyrene-d10	2.7395000	1.2500000	1.8730000	0.01	119.16		LINR

FORM VII PEST

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-3

Lab File ID (Standard): K5821 Date Analyzed: 12/01/03

Instrument ID: GCMS-K Time Analyzed: 0917

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
12 HOUR STD		14269		8.38		44450		11.19		22641		15.28	
UPPER LIMIT		28538		8.88		88900		11.69		45282		15.78	
LOWER LIMIT		7135		7.88		22225		10.69		11321		14.78	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	WG4621-BLANK	WG4621-1		13653	8.37		39643	11.19		19533		15.28	
02	WG4621-LCS	WG4621-2		11960	8.37		39482	11.19		18234		15.28	
03	WG4621-LCSD	WG4621-3		12626	8.37		37671	11.19		17604		15.28	
04	G01-GS-11-1103	WT2898-1		13148	8.36		41963	11.19		27330		15.28	
05	G01-GS-12-1103	WT2898-2		9064	8.36		34404	11.19		27479		15.28	
06	G01-GS-16-1103	WT2898-3		9175	8.36		35590	11.19		18909		15.30	
07	G01-GS-19-1103	WT2898-4		15216	8.36		46915	11.17		27558		15.28	
08	G01-GS-22-1103	WT2898-5					77651	11.12					
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-3

Lab File ID (Standard): K5821 Date Analyzed: 12/01/03

Instrument ID: GCMS-K Time Analyzed: 0917

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
12 HOUR STD		35974		18.74		12433		25.02		13434		28.18	
UPPER LIMIT		71948		19.24		24866		25.52		26868		28.68	
LOWER LIMIT		17987		18.24		6217		24.52		6717		27.68	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	WG4621-BLANK	WG4621-1		32691	18.75		9407	25.04		10742		28.18	
02	WG4621-LCS	WG4621-2		23187	18.74		12791	25.02		14703		28.18	
03	WG4621-LCSD	WG4621-3		27736	18.74		16318	25.04		17287		28.16	
04	G01-GS-11-1103	WT2898-1		37979	18.73		20021	25.02		13858		28.18	
05	G01-GS-12-1103	WT2898-2		27715	18.74		14146	25.02		9096		28.16	
06	G01-GS-16-1103	WT2898-3		24454	18.75		14989	25.02		10663		28.16	
07	G01-GS-19-1103	WT2898-4		36901	18.72		19423	25.02		14798		28.16	
08	G01-GS-22-1103	WT2898-5		3061*	18.75		10185	25.04		10474		28.18	
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

Data File: \\Target_server\GG\chem\gcms-u.i\U120203.b\U5527.D
Report Date: 03-Dec-2003 09:22

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gcms-u.i\U120203.b\U5527.D
Lab Smp Id: WT2898-5DL2 Client Smp ID: G01-GS-22-1103
Inj Date : 02-DEC-2003 17:56 MS Autotune Date: 21-JUL-2003 12:27
Operator : JCG Inst ID: gcms-u.i
Smp Info : WT2898-5DL2
Misc Info : SW846 8270C
Comment :
Method : \\Target_server\GG\chem\gcms-u.i\U120203.b\U8270C11.m
Meth Date : 03-Dec-2003 09:20 lschwieter Quant Type: ISTD
Cal Date : 12-NOV-2003 14:25 Cal File: U5290.D
Als bottle: 11
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: tetratkwSIM.sub
Target Version: 4.12
Processing Host: TARGET01

Concentration Formula: Amt * DF * 1000*(Vt/Vo) * CpndVariable

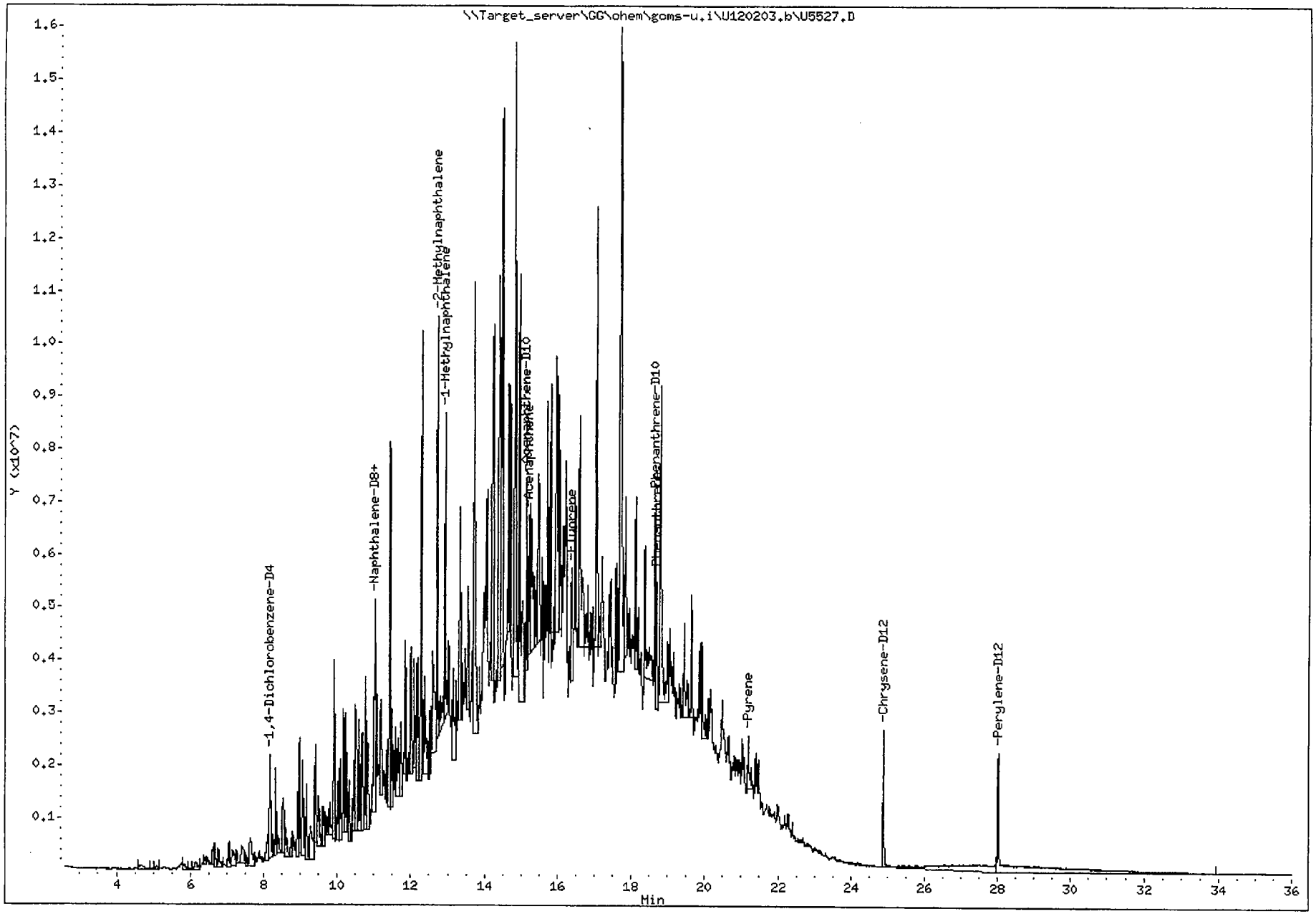
Name	Value	Description
DF	10.000	Dilution Factor
Vt	0.00200	Volume of final extract (L)
Vo	0.99000	Volume of sample extracted (L)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
* 12 1,4-Dichlorobenzene-D4	152	8.176	8.176	(1.000)	649966	40.0000	
* 30 Naphthalene-D8	136	11.023	11.023	(1.000)	2507368	40.0000	
31 Naphthalene	128	11.071	11.066	(1.004)	1413271	25.0565	506
37 2-Methylnaphthalene	142	12.727	12.700	(1.155)	4015172	114.916	2320
38 1-Methylnaphthalene	142	12.941	12.919	(1.174)	3291451	102.433	2070
* 50 Acenaphthene-D10	164	15.158	15.136	(1.000)	1416197	40.0000	
51 Acenaphthene	153	15.228	15.211	(1.005)	299923	8.83222	178(aQ)
57 Fluorene	166	16.462	16.440	(1.086)	496368	13.0268	263(Q)
* 69 Phenanthrene-D10	188	18.657	18.630	(1.000)	2126197	40.0000	
70 Phenanthrene	178	18.711	18.689	(1.003)	1269458	25.1963	509
76 Pyrene	202	22.012	22.001	(0.884)	67521	1.23754	25.0(a)
* 81 Chrysene-D12	240	24.897	24.907	(1.000)	1559479	40.0000	
* 89 Perylene-D12	264	28.017	28.022	(1.000)	1222337	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\Target_server\GC\chem\gcms-u.i\U120203.b\U5527.D
Date : 02-DEC-2003 17:56
Client ID: C01-CS-22-1103
Instrument: gcms-u.i
Sample Info: WT2898-5DL2



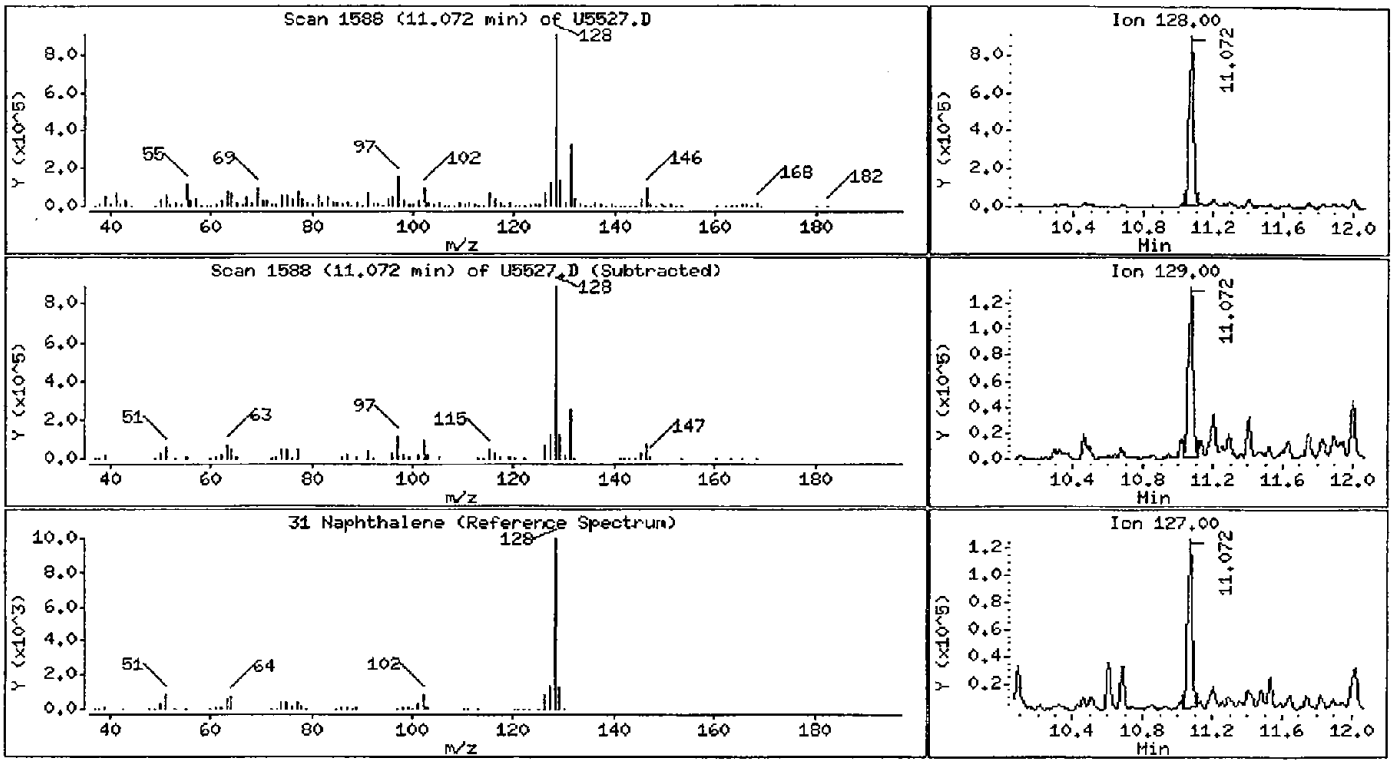
Data File: \\Target_server\GC\chem\gcms-u.i\U120203.b\U5527.D

Date : 02-DEC-2003 17:56

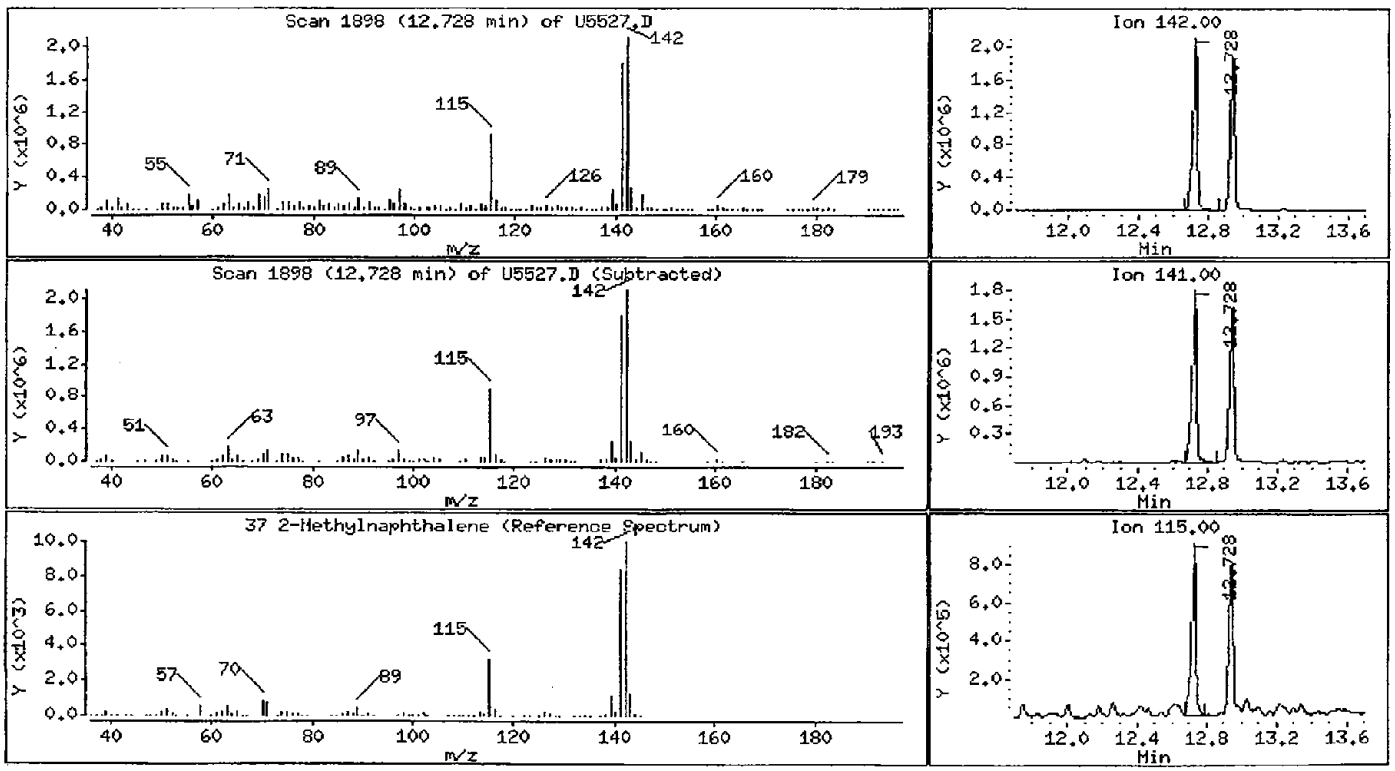
Client ID: G01-GS-22-1103 Instrument: gcms-u.i

Sample Info: WT2898-5DL2

31 Naphthalene Concentration: 506 ug/L



37 2-Methylnaphthalene Concentration: 2320 ug/L



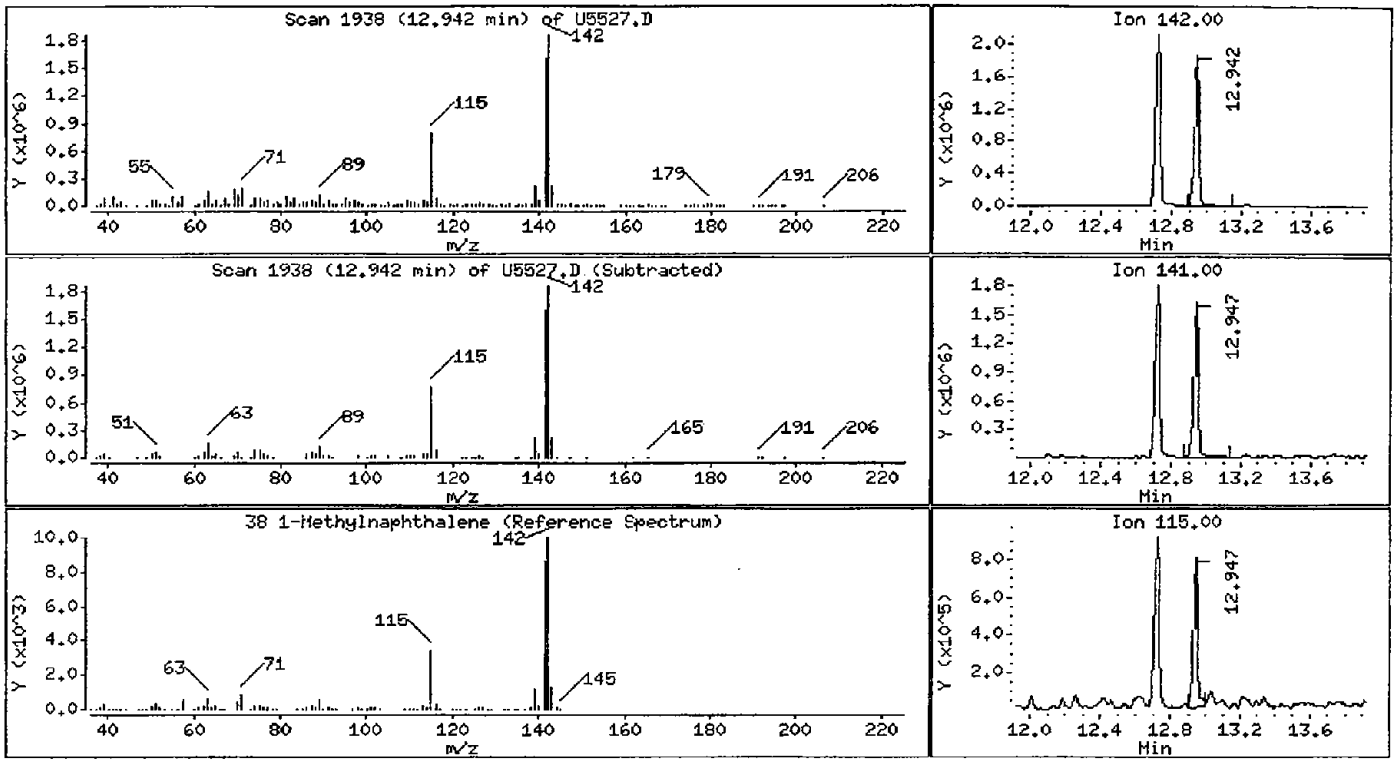
Data File: \\Target_server\GC\chem\gcms-u.i\U120203.b\U5527.D

Date : 02-DEC-2003 17:56

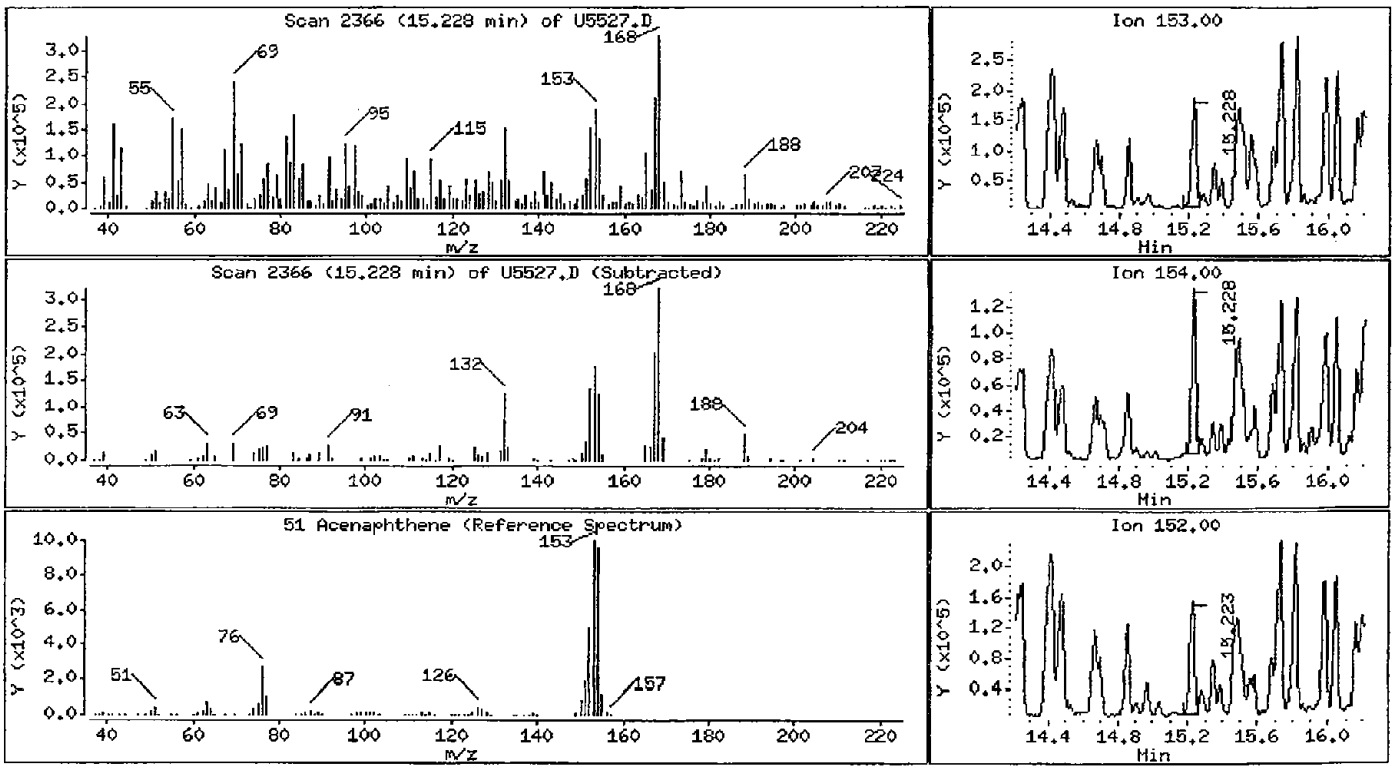
Client ID: C01-GS-22-1103 Instrument: gcms-u.i

Sample Info: WT2898-5DL2

38 1-Methylnaphthalene Concentration: 2070 ug/L



51 Acenaphthene Concentration: 178 ug/L



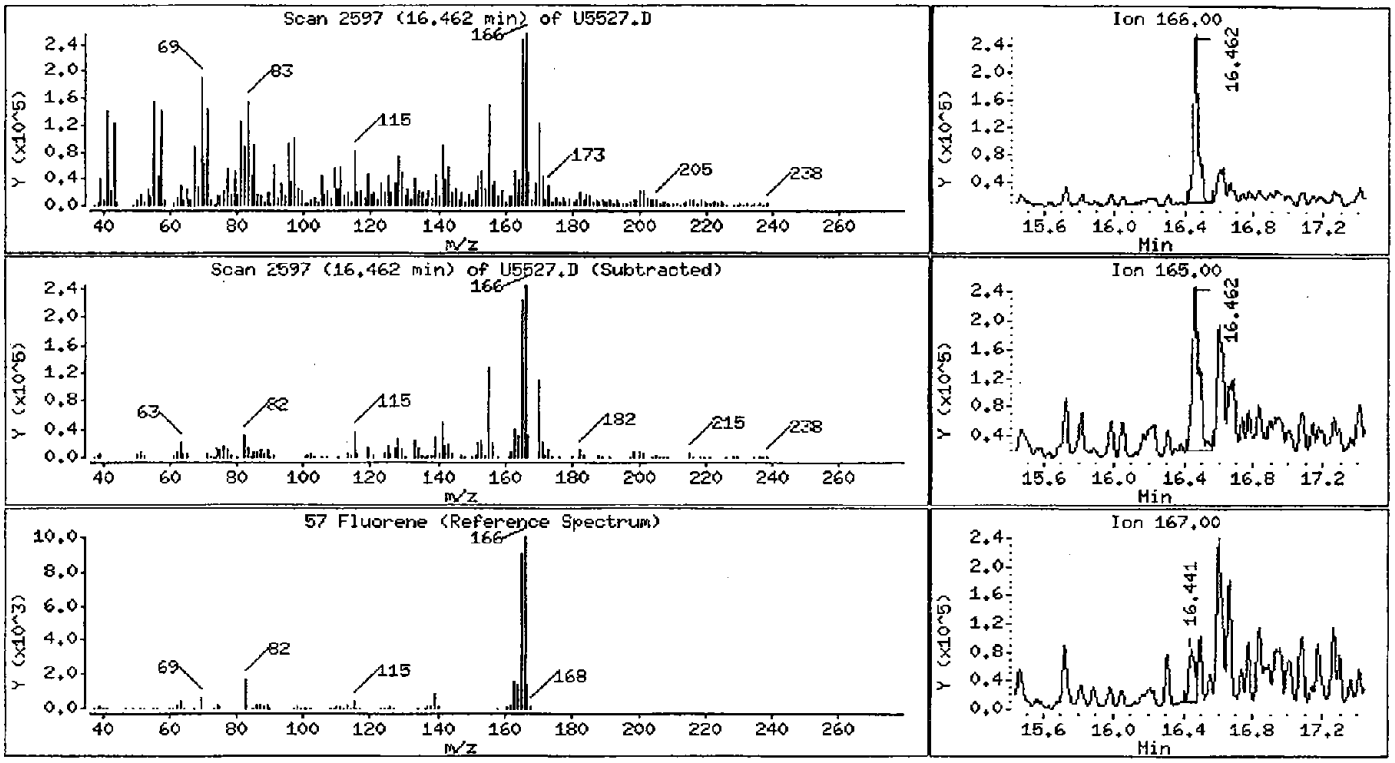
Data File: \\Target_server\GC\chem\gcms-u.i\U120203.b\U5527.D

Date : 02-DEC-2003 17:56

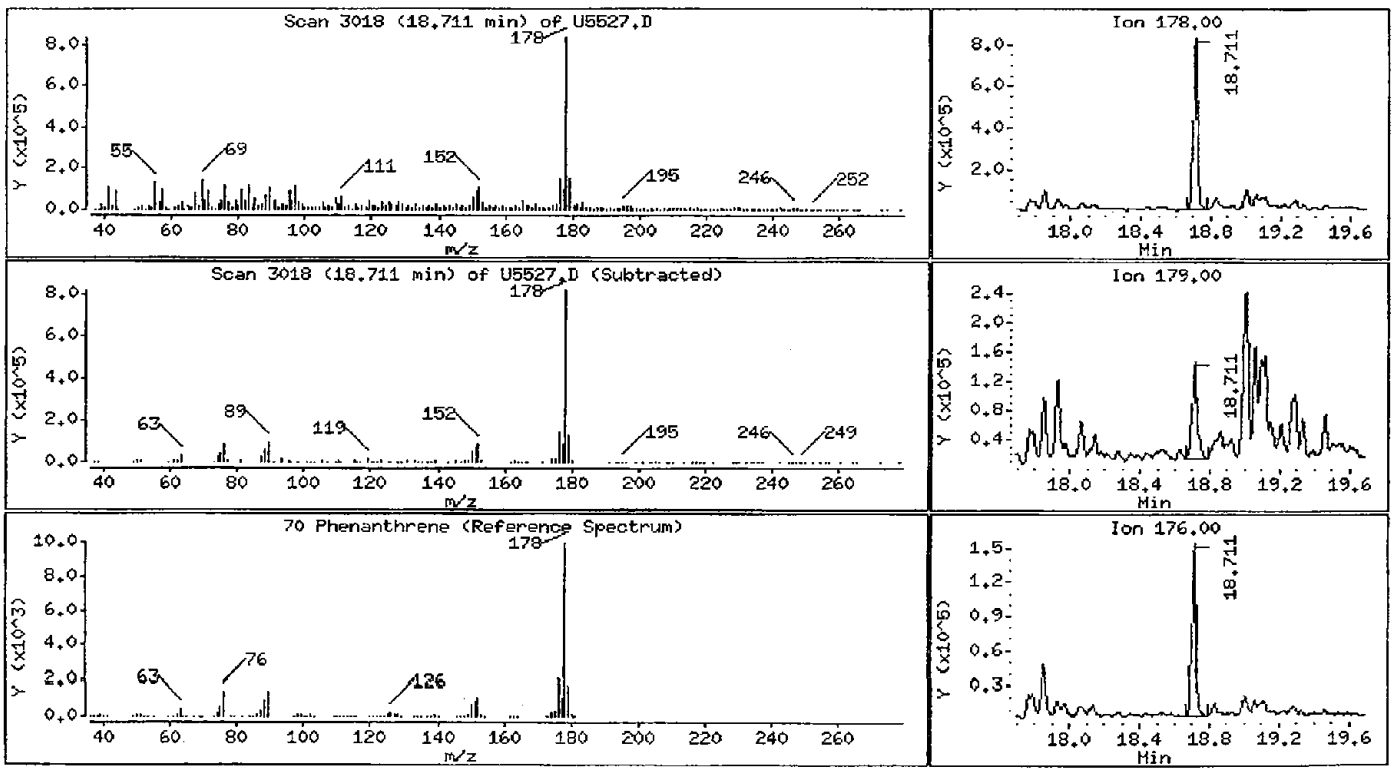
Client ID: G01-GS-22-1103 Instrument: gcms-u.i

Sample Info: WT2898-5DL2

57 Fluorene Concentration: 263 ug/L



70 Phenanthrene Concentration: 509 ug/L



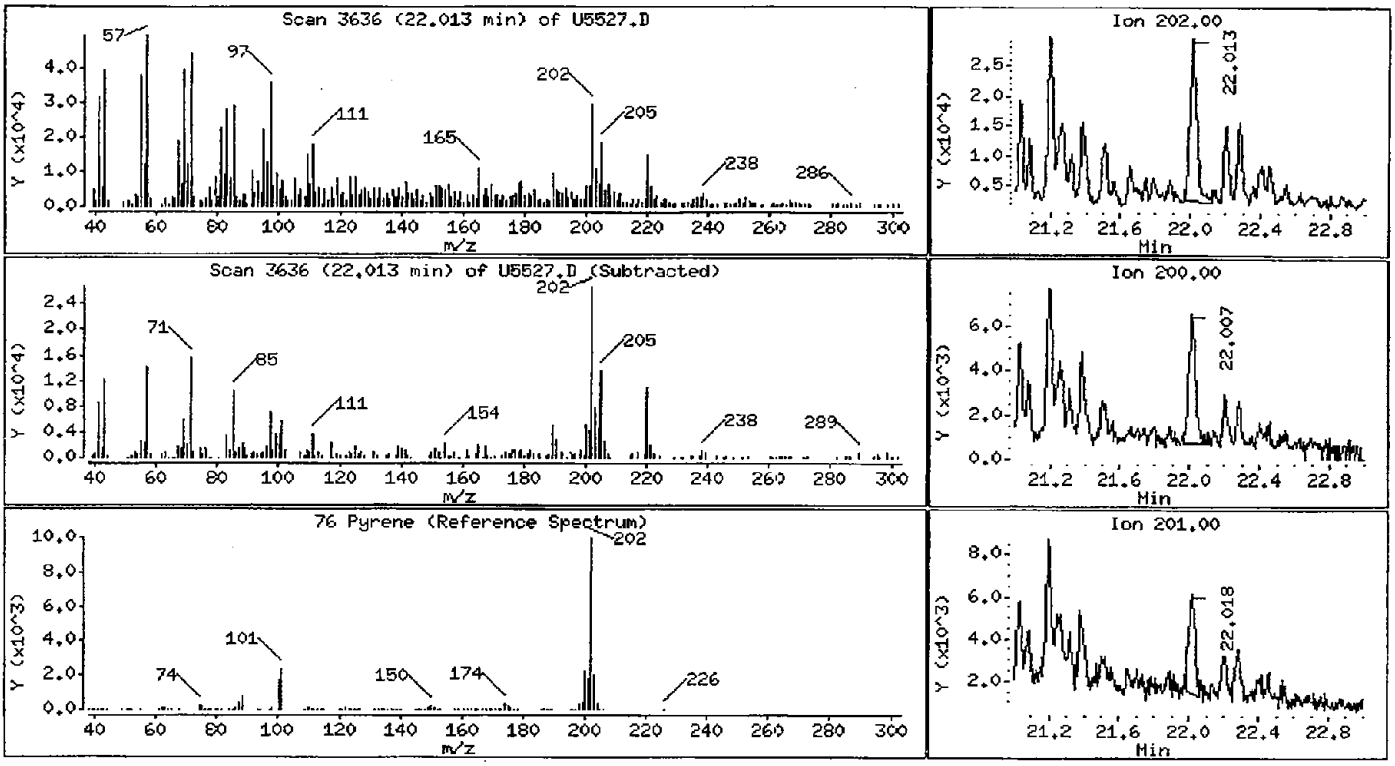
Data File: \\Target_server\GC\chem\gcms-u.i\U120203.b\U5527.D

Date : 02-DEC-2003 17:56

Client ID: G01-GS-22-1103 Instrument: gcms-u.i

Sample Info: WT2898-5DL2

76 Pyrene Concentration: 25.0 ug/L



Data File: \\Target_server\GG\chem\gcms-k.i\K120103.b\K5833.D
Report Date: 03-Dec-2003 09:13

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gcms-k.i\K120103.b\K5833.D
Lab Smp Id: WT2898-5 Client Smp ID: G01-GS-22-1103
Inj Date : 01-DEC-2003 19:23 MS Autotune Date: 02-OCT-2003 14:39
Operator : JCG Inst ID: gcms-k.i
Smp Info : WT2898-5
Misc Info : SW846 M8270C
Comment :
Method : \\Target_server\GG\chem\gcms-k.i\K120103.b\827sim09.m
Meth Date : 01-Dec-2003 09:52 cgomez Quant Type: ISTD
Cal Date : 28-NOV-2003 12:34 Cal File: K5818.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tetratkw001.sub
Target Version: 4.12
Processing Host: TARGET01

Concentration Formula: Amt * DF * Vt/Vo * 1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00200	Volume of final extract (L)
Vo	0.99000	Volume of sample extracted (L)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	
*	2 Naphthalene-D8	136	11.124	11.187	(1.000)	77651	0.80000		(M)
	4 Naphthalene	128	11.272	11.230	(1.000)	7887358	84.7371	171	(A)
	6 2-Methylnaphthalene	142	13.005	12.857	(1.000)	17518900	361.693	731	(A)
	7 1-Methylnaphthalene	142	13.237	13.089	(1.000)	13961373	283.671	573	(AH)
$	12 Fluorene-d10	176	16.475	16.500	(0.000)	11880			(aQRM)
*	14 Phenanthrene-D10	188	18.754	18.739	(1.000)	3061	0.80000		(M)
	16 Anthracene	178	18.970	18.893	(1.000)	3934717	1054.07	2130	(A)
	18 Fluoranthene	202	21.593	21.593	(1.000)	84646	24.7135	49.9	(AQ)
	20 Pyrene	202	22.079	22.100	(0.882)	33829	2.29726	4.64	(Q)
	22 Benzo(a)anthracene	228	24.996	24.996	(0.998)	3182	0.21765	0.440	
*	23 Chrysene-D12	240	25.039	25.017	(1.000)	10185	0.80000		(Q)
	24 Chrysene	228	25.081	25.081	(1.002)	6427	0.33922	0.685	(Q)
*	28 Perylene-D12	264	28.180	28.180	(1.000)	10474	0.80000		

QC Flag Legend

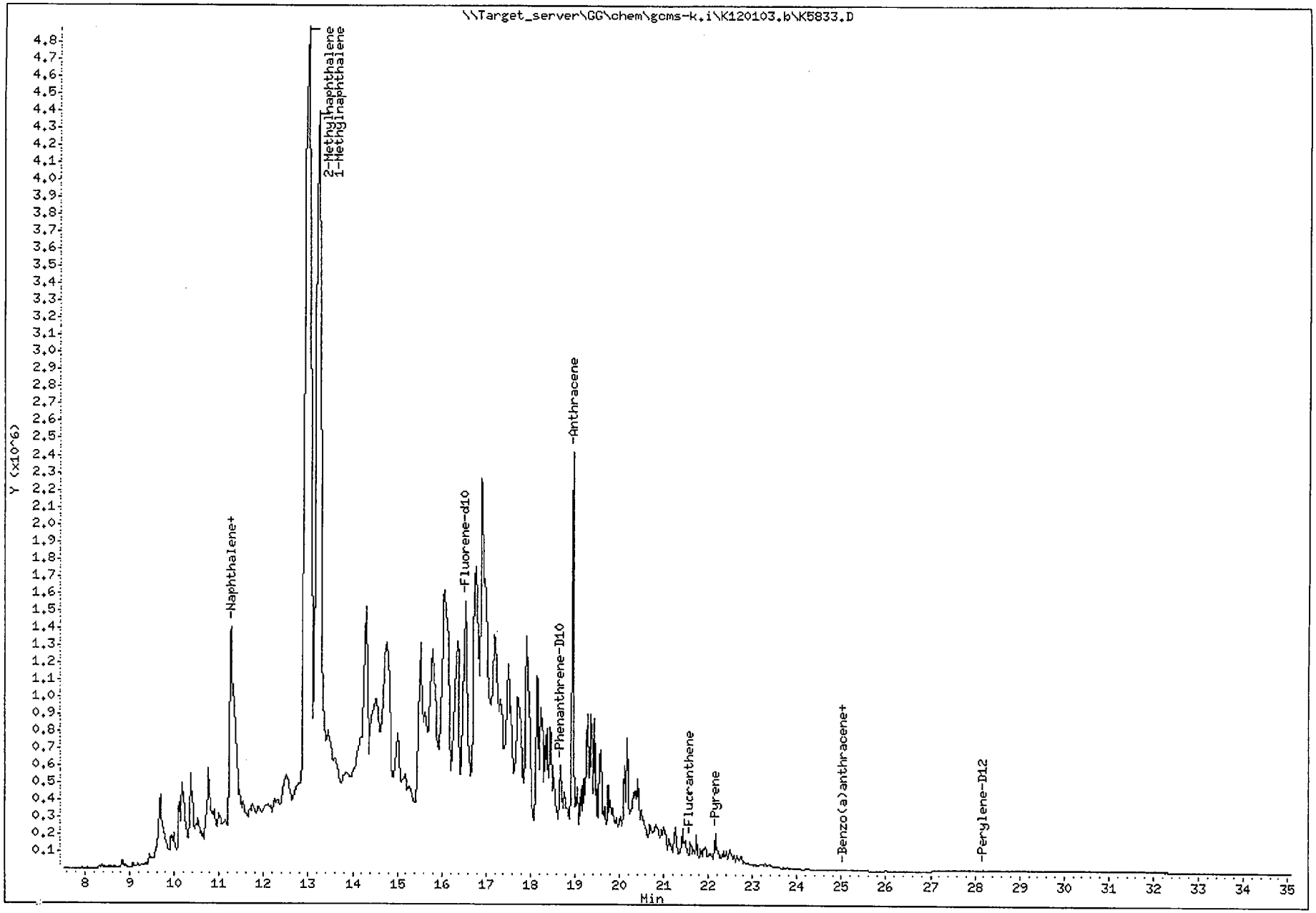
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\Target_server\GG\chem\gcms-k.i\K120103.b\K5833.D
Report Date: 03-Dec-2003 09:13

QC Flag Legend

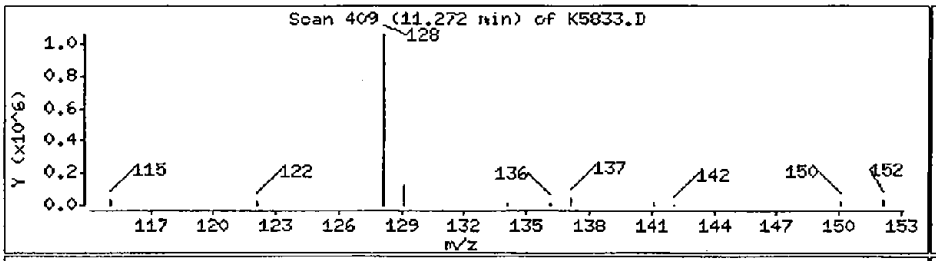
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

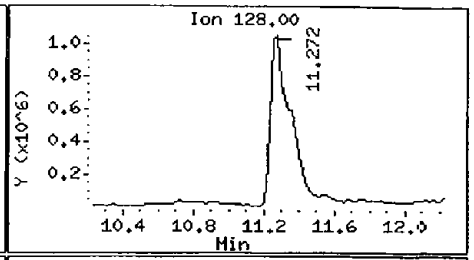
Data File: \\Target_server\GG\chem\gcms-k.i\K120103.b\K5833.D
Date : 01-DEC-2003 19:23
Client ID: C01-CS-22-1103 Instrument: gcms-k.i
Sample Info: WT2898-5

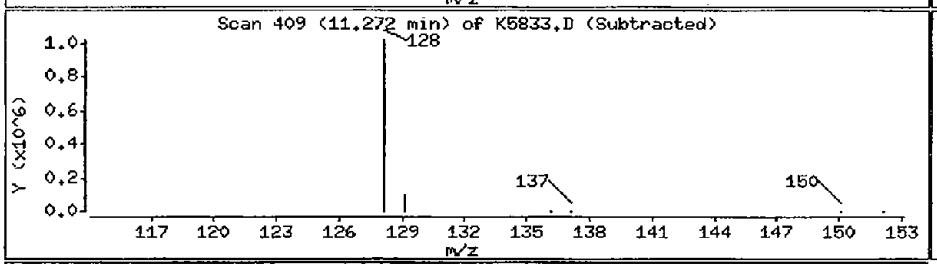


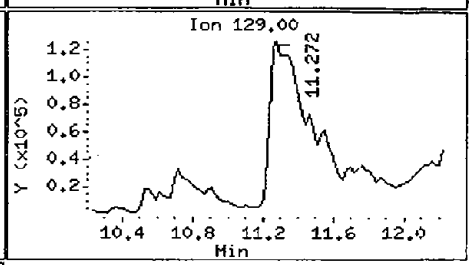
Data File: \\Target_server\GC\chem\gcms-k.i\K120103.b\K5833.D
Date : 01-DEC-2003 19:23
Client ID: G01-GS-22-1103 Instrument: gcms-k.i
Sample Info: WT2898-5

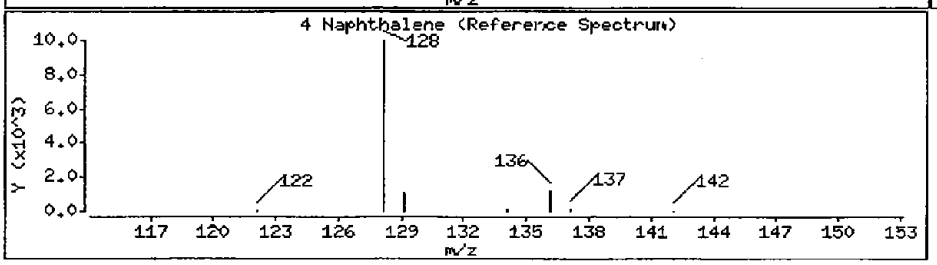
4 Naphthalene Concentration: 171 ug/L



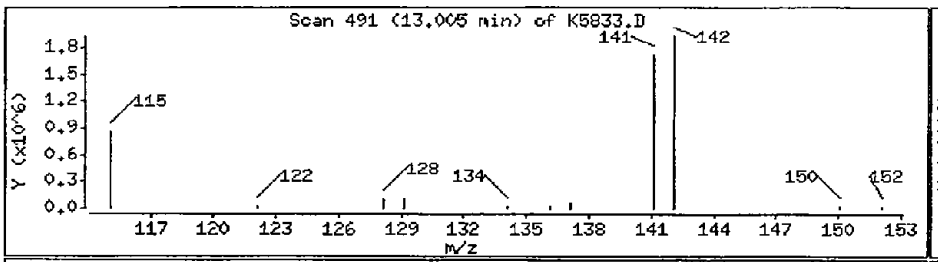


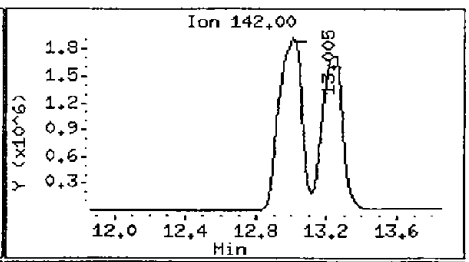


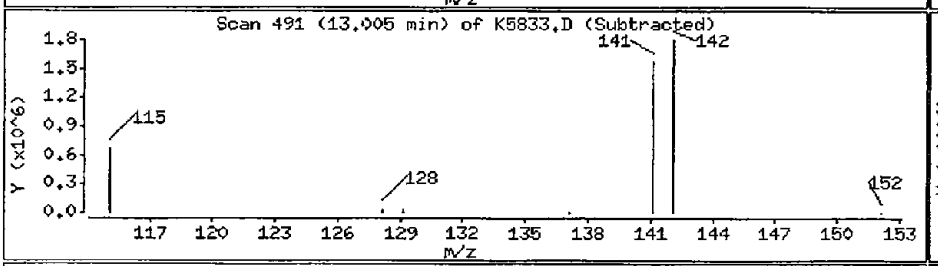


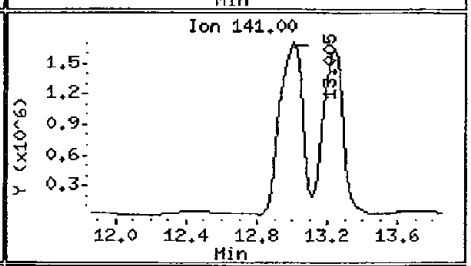


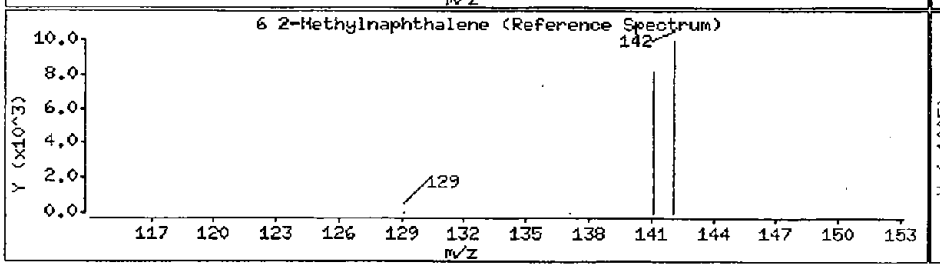
6 2-Methylnaphthalene Concentration: 731 ug/L

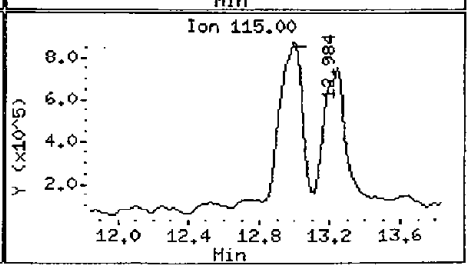












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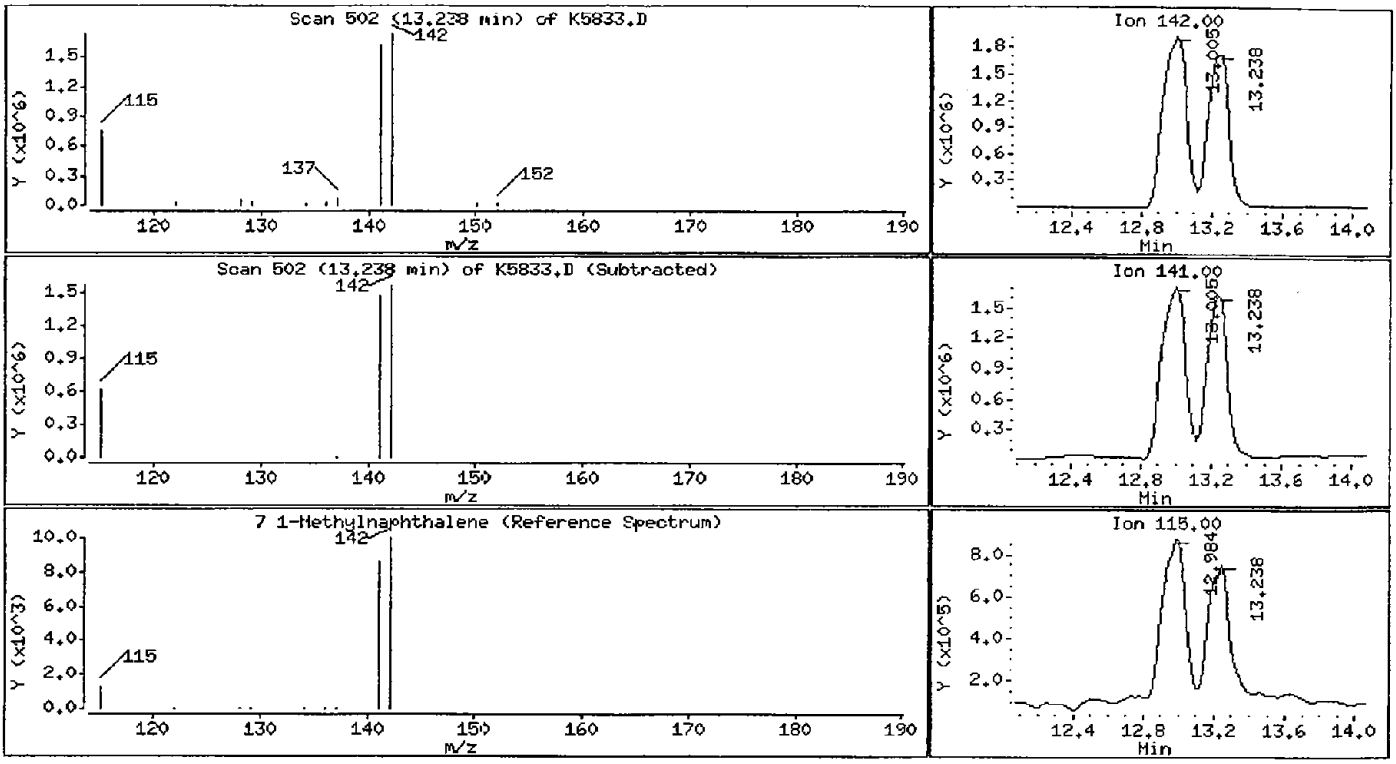
Date : 01-DEC-2003 19:23

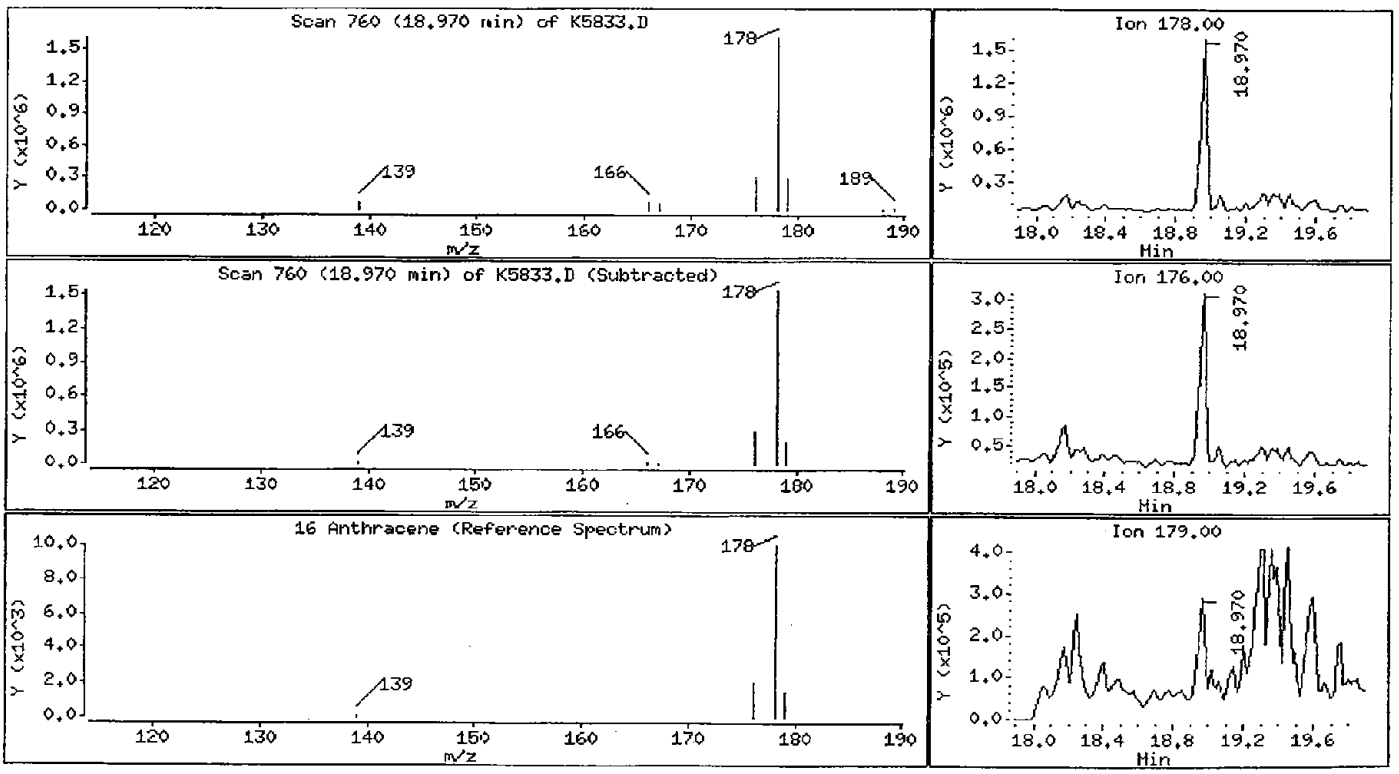
Client ID: G01-GS-22-1103 Instrument: gcms-k.i

Sample Info: WT2898-5

7 1-Methylnaphthalene Concentration: 573 ug/L

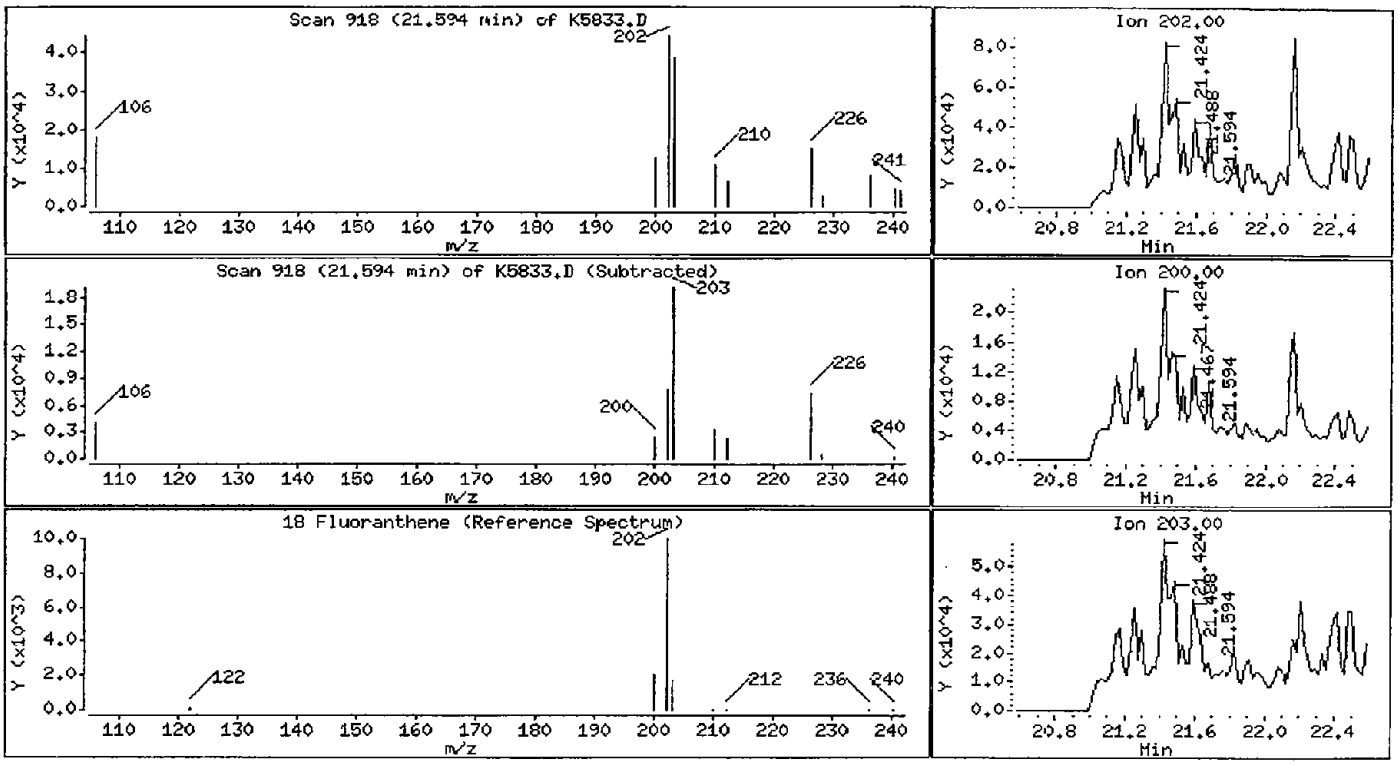


16 Anthracene Concentration: 2130 ug/L

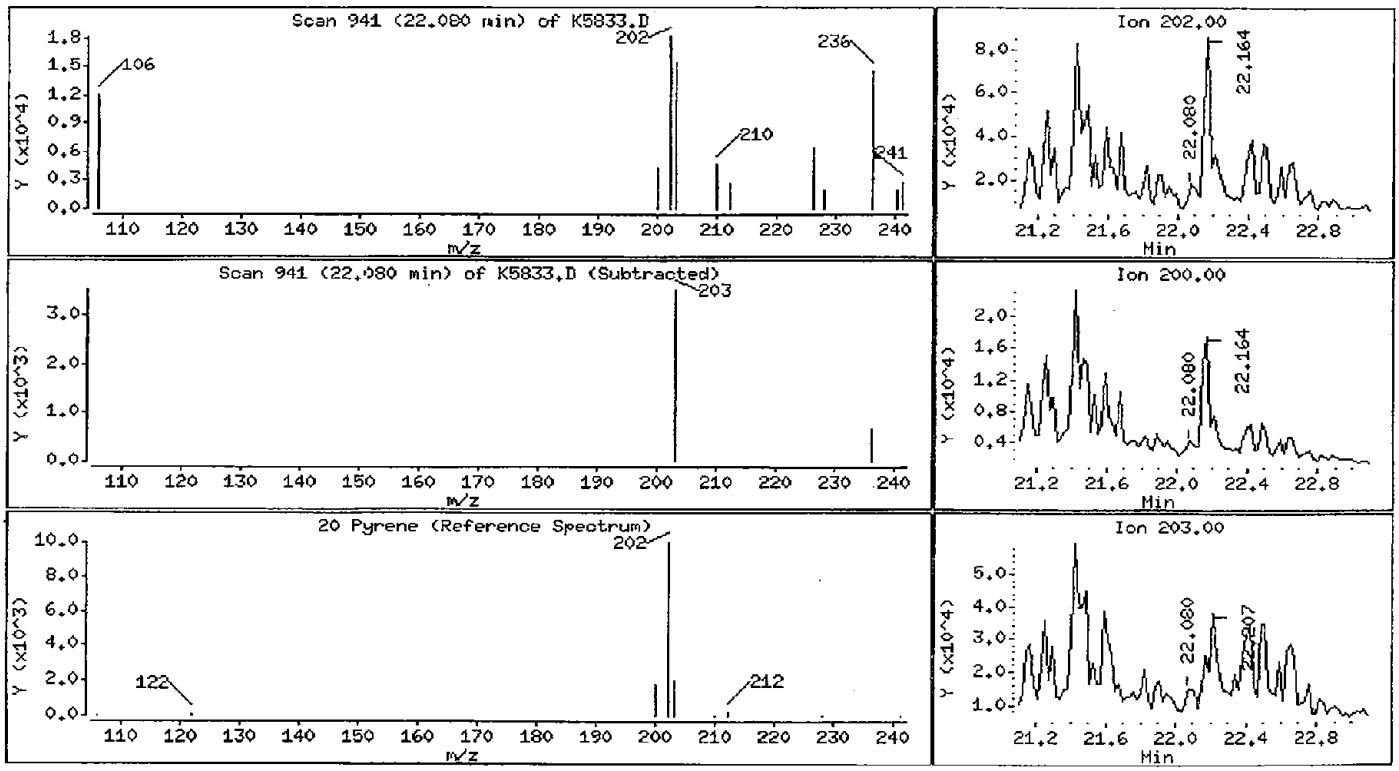


Data File: \\Target_server\GC\chem\gcms-k.i\K120103.b\K5833.D
Date : 01-DEC-2003 19:23
Client ID: G01-GS-22-1103 Instrument: gcms-k.i
Sample Info: WT2898-5

18 Fluoranthene Concentration: 49.9 ug/L

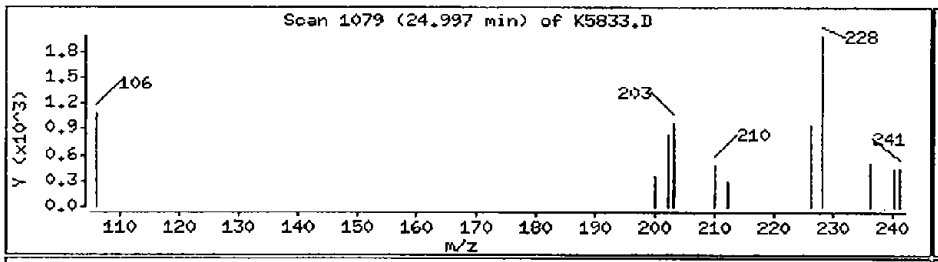


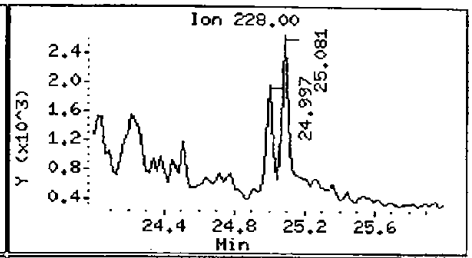
20 Pyrene Concentration: 4.64 ug/L

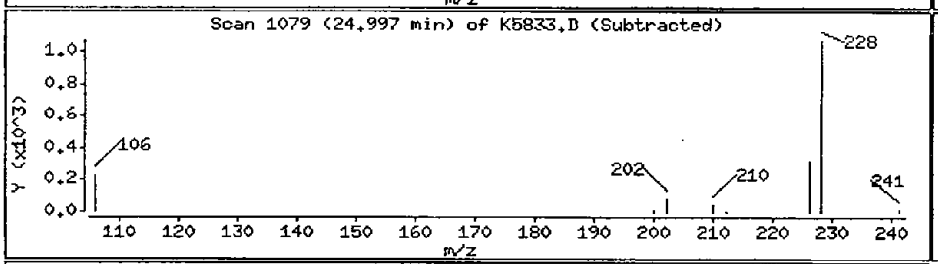


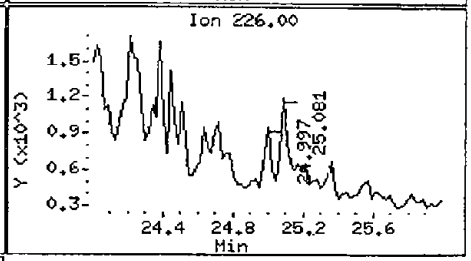
Data File: \\Target_server\GC\chem\gcms-k.i\K120103.b\K5833.D
Date : 01-DEC-2003 19:23
Client ID: G01-GS-22-1103 Instrument: gcms-k.i
Sample Info: WT2898-5

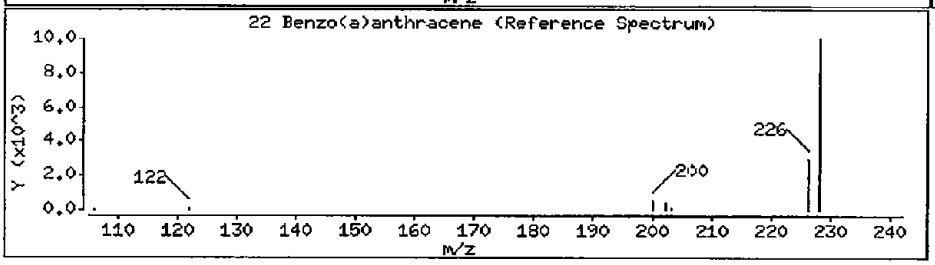
22 Benzo(a)anthracene Concentration: 0.440 ug/L



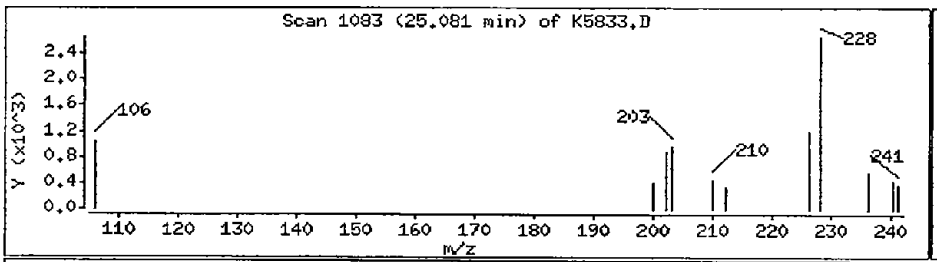


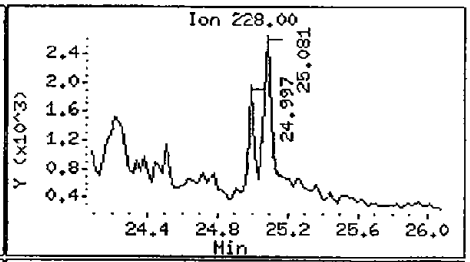


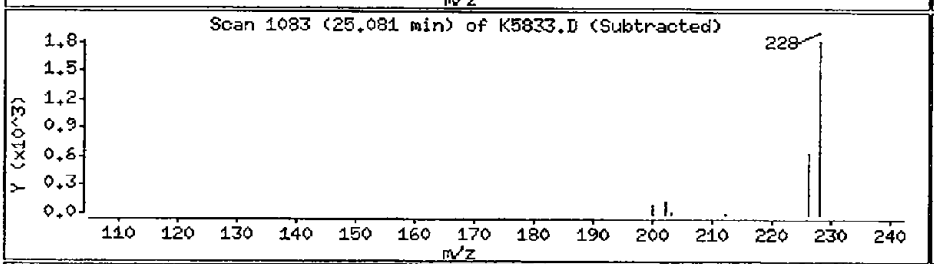


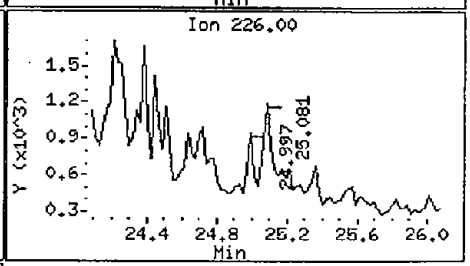


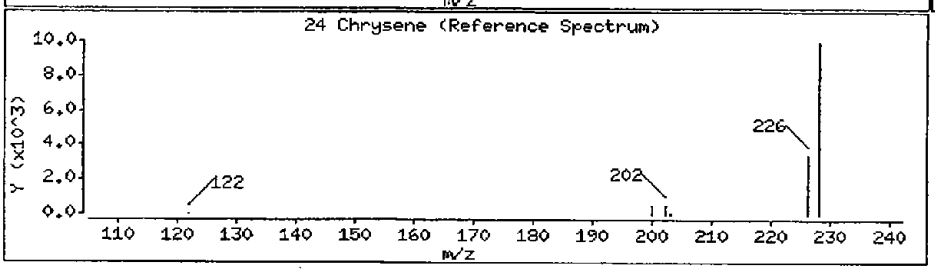
24 Chrysene Concentration: 0.685 ug/L











Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **C. BRYAN** **DATE:** **JANUARY 6, 2004**

FROM: **BERNARD F SPADA III** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOC/PAH**
CTO 318, NAS KEY WEST
SDG 3184

SAMPLES: 20/Aqueous

G01-GS-28-1103	G01-GS-29-1103	G01-GS-30-1103
G01-GS-31-1103*	G01-GS-32-1103*	G01-GS-33-1103*
G01-GS-34-1103	G01-GS-35-1103	G01-GS-36-1103*
G01-GS-37-1103	G01-GS-38-1103*	G01-GS-39-1103
G01-GS-40-1103*	G01-GS-41-1103	G01-GS-42-1103
G01-GS-43-1103*	G01-GS-44-1103	G01-GS-45-1103
G01-GS-46-1103*	G01-GS-48-1103*	

OVERVIEW

The sample set for CTO 318, NAS Key West, SDG 3184 consists of twenty (20) environmental aqueous samples. All samples were analyzed for priority pollutant VOCs, benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl-tert-butyl ether (MTBE). The samples denoted with an asterisk (*) were analyzed for polynuclear aromatic hydrocarbons (PAH).

The samples were collected by Tetra Tech NUS on November 15, 16, and 17, 2003 and analyzed by Katahdin Analytical Services. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8260B and 8270C analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

- Data completeness
* • Holding times
- Initial and continuing calibration
- Laboratory method and field quality control blank results
- Surrogate recoveries
* • Matrix Spike recoveries
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

The text of this report is formulated to address only gross non-compliances resulting in the rejection of data and the elimination of false positives.

Volatile

The continuing calibration performed on November 22 at 08:32 exceeded the 25% difference quality control criteria for chloromethane and bromomethane. No qualifications were made on this basis because all results for the aforementioned compounds were non-detected.

The following compound was detected in the method blank:

Compound	Maximum Concentration	Blank Action Level
Methylene chloride	1.0 µg/L	10 µg/L

Sample aliquot and dilution factors were taken into consideration when applying the blank action levels. No qualifications were made on this basis because all results for methylene chloride were non-detected.

The laboratory mis-identified the sample G01-GS-28-1103 on the Form I. The sample was identified as G01-GS-33-1103. The validator verified the lab sample ID to confirm which sample was G01-GS-28-1103.

The blank spike (WG4701-LCS) exceeded the percent recovery quality control criteria for 2-butanone. No qualifications were made on this basis because the results for 2-butanone were non-detected.

The blank spike (WG4731-LCS) exceeded the percent recovery quality control criteria for 2-butanone and acetone. No qualifications were made on this basis because the results for the aforementioned compounds were non-detected.

The blank spike (WG4755-LCS) was below the percent recovery quality control criteria for 2-chloroethylvinyl ether. No qualifications were made on this basis because all other blank spikes were compliant.

The blank spike (WG4755-LCS) exceeded the percent recovery quality control criteria for 2-butanone and acetone. No qualifications were made on this basis because the results for the aforementioned compounds were non-detected.

The results for total-xylenes did not correspond to the sum of m,p-xylenes and o-xylenes in samples G01-GS-29-1103, G01-GS-33-1103, G01-GS-35-1103, G01-GS-36-1103, G01-GS-40-1103, and G01-GS-46-1103. The validator changed the results for total-xylenes in the database to correspond with the sum of m,p-xylenes and o-xylenes in the aforementioned samples.

PAH

The following compounds were detected in the method blank:

Compound	Maximum Concentration	Blank Action Level
Benzo(a)pyrene	0.14 µg/L	0.7 µg/L
Indeno(1,2,3-cd)pyrene	0.17 µg/L	0.85 µg/L
Dibenzo(a,h)anthracene	0.16 µg/L	0.8 µg/L

Sample aliquot and dilution factors were taken into consideration when applying the blank action levels. No qualifications were made on this basis because all results for the aforementioned compounds were non-detected.

The continuing calibration performed on December 1 at 09:17 on the GCMS-K instrument exceeded the 25% (and was >100%) difference quality control criteria for pyrene. No qualifications were made on this basis because no environmental samples were analyzed using this calibration.

The continuing calibration performed on December 2 at 12:02 on the GCMS-K instrument exceeded the 25% difference quality control criteria for pyrene, chrysene, and benzo(k)fluoranthene. The positive result for pyrene was qualified as estimated (J) in sample G01-GS-31-1103. No further qualifications were made on this basis because all remaining results for the aforementioned compounds were non-detected.

The continuing calibration performed on December 3 at 15:17 on the GCMS-U instrument exceeded the 25% difference quality control criteria for dibenzo(a,h)anthracene. No qualifications were made on this basis because no results for dibenzo(a,h)anthracene were validated using this calibration.

All surrogates exhibited 0% recovery in samples G01-GS-31-1103, G01-GS-32-1103, G01-GS-40-1103, and G01-GS-43-1103. No qualifications were made on this basis because the samples were analyzed at 10X, 25X, 25X, and 25X dilutions, respectively.

The surrogate pyrene-d10 exceeded the percent recovery quality control criteria in the blank spike. No qualifications were made on this basis.

The percent recovery of pyrene exceeded the percent recovery quality control criterion in the blank spike. No qualifications were made on this basis because the blank spike duplicate was compliant. The high recovery is attributed to the surrogate recovery non-compliance in the blank spike.

Samples G01-GS-31-1103, G01-GS-32-1103, G01-GS-38-1103, and G01-GS-40-1103, G01-GS-43-1103 were re-analyzed at dilutions because the concentration of target analytes exceeded the linear calibration range of the instrument. The result for phenanthrene in the diluted analysis of sample G01-GS-32-1103 was below the adjusted reporting limit. The results for fluorene and phenanthrene in the diluted analysis of sample G01-GS-43-1103 were below the adjusted reporting limits. All results for over-range analytes were transposed from the diluted analyses to the un-diluted analyses and used for validation.

Additional Comments

Positive results below the reporting limit were qualified as estimated (J) due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Qualifications were made based on calibration non-compliances and instrument calibration range exceedances.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines. The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Bernard F. Spada III
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 4779

SDG: 3184 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-28-1103	nsample	G01-GS-29-1103	nsample	G01-GS-30-1103
samp_date	11/15/2003	samp_date	11/15/2003	samp_date	11/15/2003
lab_id	WT2911-10	lab_id	WT2911-11	lab_id	WT2911-12
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.1	J	P
M+P-XYLENES	0.2	J	P
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	0.2	J	P
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.8	J	P
M+P-XYLENES	0.2	J	P
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	0.3	J	P
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	0.5	J	P
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	0.1	J	P
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1		
M+P-XYLENES	0.2	J	P
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	0.2	J	P
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	0.4	J	P
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3184 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-31-1103	nsample	G01-GS-32-1103	nsample	G01-GS-33-1103
samp_date	11/15/2003	samp_date	11/15/2003	samp_date	11/16/2003
lab_id	WT2911-1	lab_id	WT2911-2	lab_id	WT2911-3
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	3		
M+P-XYLENES	0.2	J	P
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	0.5	J	P
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	0.7	J	P
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	0.1	J	P
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	5		
M+P-XYLENES	0.2	J	P
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	0.2	J	P
TETRACHLOROETHENE	1	U	
TOLUENE	0.2	J	P
TOTAL XYLENES	0.4	J	P
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.7	J	P
M+P-XYLENES	0.2	J	P
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	0.2	J	P
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3184 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-34-1103	nsample	G01-GS-35-1103	nsample	G01-GS-36-1103
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lab_id	WT2911-13	lab_id	WT2911-14	lab_id	WT2911-4
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.1	J	P
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.1	J	P
M+P-XYLENES	0.2	J	P
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	0.2	J	P
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.1	J	P
M+P-XYLENES	0.2	J	P
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	0.2	J	P
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

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SDG: 3184 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-37-1103	nsample	G01-GS-38-1103	nsample	G01-GS-39-1103
samp_date	11/16/2003	samp_date	11/16/2003	samp_date	11/16/2003
lab_id	WT2911-15	lab_id	WT2911-5	lab_id	WT2911-16
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1		
M+P-XYLENES	3		
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	3		
TETRACHLOROETHENE	1	U	
TOLUENE	1		
TOTAL XYLENES	6		
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

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SDG: 3184 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-40-1103	nsample	G01-GS-41-1103	nsample	G01-GS-42-1103
samp_date	11/16/2003	samp_date	11/16/2003	samp_date	11/16/2003
lab_id	WT2911-6	lab_id	WT2911-17	lab_id	WT2911-18
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	0.2	J	P
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1		
M+P-XYLENES	0.2	J	P
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	0.2	J	P
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.2	J	P
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

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SDG: 3184 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-43-1103	nsample	G01-GS-44-1103	nsample	G01-GS-45-1103
samp_date	11/17/2003	samp_date	11/17/2003	samp_date	11/17/2003
lab_id	WT2911-7	lab_id	WT2911-19	lab_id	WT2911-20RA
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	2		
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.2	J	P
M+P-XYLENES	0.3	J	P
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	0.3	J	P
TETRACHLOROETHENE	1	U	
TOLUENE	0.2	J	P
TOTAL XYLENES	0.6	J	P
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

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SDG: 3184 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-46-1103	nsample	G01-GS-48-1103
samp_date	11/17/2003	samp_date	11/17/2003
lab_id	WT2911-8	lab_id	WT2911-9
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.3	J	P
M+P-XYLENES	0.2	J	P
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	0.2	J	P
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3184 MEDIA: WATER DATA FRACTION: PAH

nsample	G01-GS-31-1103	nsample	G01-GS-32-1103	nsample	G01-GS-33-1103
samp_date	11/15/2003	samp_date	11/15/2003	samp_date	11/16/2003
lab_id	WT2911-1	lab_id	WT2911-2	lab_id	WT2911-3
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	15		
2-METHYLNAPHTHALENE	1.6		
ACENAPHTHENE	4.2		
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.39		
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	5.9		
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	1.7		
PHENANTHRENE	6.1		
PYRENE	0.17	J	CP

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	39		
2-METHYLNAPHTHALENE	41		
ACENAPHTHENE	2		
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	2.7		
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	25		
PHENANTHRENE	3.3	J	P
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	2		
2-METHYLNAPHTHALENE	2.2		
ACENAPHTHENE	0.83		
ACENAPHTHYLENE	0.071	J	P
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.79		
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.81		
PHENANTHRENE	0.2		
PYRENE	0.2	U	

PROJ_NO: 4779

SDG: 3184 MEDIA: WATER DATA FRACTION: PAH

nsample	G01-GS-36-1103	nsample	G01-GS-38-1103	nsample	G01-GS-40-1103
samp_date	11/16/2003	samp_date	11/16/2003	samp_date	11/16/2003
lab_id	WT2911-4	lab_id	WT2911-5	lab_id	WT2911-6
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	1.8		
2-METHYLNAPHTHALENE	1.9		
ACENAPHTHENE	0.38		
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.48		
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.78		
PHENANTHRENE	0.11	J	P
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	5		
2-METHYLNAPHTHALENE	4.1		
ACENAPHTHENE	0.2		
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.21		
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	2		
PHENANTHRENE	0.2		
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	13		
2-METHYLNAPHTHALENE	8.6		
ACENAPHTHENE	0.76		
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.66		
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	32		
PHENANTHRENE	0.4		
PYRENE	0.2	U	

PROJ_NO: 4779

SDG: 3184 MEDIA: WATER DATA FRACTION: PAH

nsample	G01-GS-43-1103	nsample	G01-GS-46-1103	nsample	G01-GS-48-1103
samp_date	11/17/2003	samp_date	11/17/2003	samp_date	11/17/2003
lab_id	WT2911-7	lab_id	WT2911-8	lab_id	WT2911-9
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	33		
2-METHYLNAPHTHALENE	24		
ACENAPHTHENE	2.1		
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.26		
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	2.3	J	P
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	17		
PHENANTHRENE	4.2	J	P
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	2.4		
2-METHYLNAPHTHALENE	1.4		
ACENAPHTHENE	2.5		
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	1.5		
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	2.2		
PHENANTHRENE	1.9		
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.36		
2-METHYLNAPHTHALENE	0.36		
ACENAPHTHENE	0.091	J	P
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.47		
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/15/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-10
Client ID: ~~GOI-GS-33-1103~~ G01-GS-28-1103
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4701
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	J	0.2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		85%				
17060-07-0	1,2-Dichloroethane-D4		87%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		91%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/15/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-11
Client ID: G01-GS-29-1103
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4731
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.8	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	J	0.6	1.0	3	3	0.3
	m+p-Xylenes	J	0.2	1.0	2	2	0.2
95-47-6	o-Xylene	J	0.3	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		96%				
17060-07-0	1,2-Dichloroethane-D4		96%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/15/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-12
Client ID: G01-GS-30-1103
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4731
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	J	0.1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	J	0.4	1.0	3	3	0.3
	m+p-Xylenes	J	0.2	1.0	2	2	0.2
95-47-6	o-Xylene	J	0.2	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		87%				
17060-07-0	1,2-Dichloroethane-D4		83%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		90%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/15/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-1
Client ID: G01-GS-31-1103
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4701
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		3	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	J	0.7	1.0	3	3	0.3
	m+p-Xylenes	J	0.2	1.0	2	2	0.2
95-47-6	o-Xylene	J	0.5	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		89%				
17060-07-0	1,2-Dichloroethane-D4		91%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/15/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-2
Client ID: G01-GS-32-1103
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4701
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	J	0.1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	J	0.2	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		5	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	J	0.4	1.0	3	3	0.3
	m+p-Xylenes	J	0.2	1.0	2	2	0.2
95-47-6	o-Xylene	J	0.2	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		90%				
17060-07-0	1,2-Dichloroethane-D4		91%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/16/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-3
Client ID: G01-GS-33-1103
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4731
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.7	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	J	0.2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		88%				
17060-07-0	1,2-Dichloroethane-D4		86%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/16/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-13
Client ID: G01-GS-34-1103
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4731
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		94%				
17060-07-0	1,2-Dichloroethane-D4		95%				
2037-26-5	Toluene-D8		91%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/16/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-14
Client ID: G01-GS-35-1103
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4731
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	J	0.2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		96%				
17060-07-0	1,2-Dichloroethane-D4		96%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/16/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-4
Client ID: G01-GS-36-1103
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4731
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	J	0.2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		88%				
17060-07-0	1,2-Dichloroethane-D4		91%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/16/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-15
Client ID: G01-GS-37-1103
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4731
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		90%				
17060-07-0	1,2-Dichloroethane-D4		88%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/16/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-5
Client ID: G01-GS-38-1103
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4731
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		90%				
17060-07-0	1,2-Dichloroethane-D4		90%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/16/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-16
Client ID: G01-GS-39-1103
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4731
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene		1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)		6	1.0	3	3	0.3
	m+p-Xylenes		3	1.0	2	2	0.2
95-47-6	o-Xylene		3	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		88%				
17060-07-0	1,2-Dichloroethane-D4		88%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/16/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-6
Client ID: G01-GS-40-1103
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4731
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	J	0.2	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	J	0.2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		90%				
17060-07-0	1,2-Dichloroethane-D4		89%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/16/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-17
Client ID: G01-GS-41-1103
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4731
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.2	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		88%				
17060-07-0	1,2-Dichloroethane-D4		92%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/16/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-18
Client ID: G01-GS-42-1103
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4731
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		90%				
17060-07-0	1,2-Dichloroethane-D4		90%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		92%				

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-7
Client ID: G01-GS-43-1103
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4731
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene		2	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		88%				
17060-07-0	1,2-Dichloroethane-D4		87%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-19
Client ID: G01-GS-44-1103
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4731
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	J	0.2	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.2	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	J	0.6	1.0	3	3	0.3
	m+p-Xylenes	J	0.3	1.0	2	2	0.2
95-47-6	o-Xylene	J	0.3	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		87%				
17060-07-0	1,2-Dichloroethane-D4		91%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-20RA
Client ID: G01-GS-45-1103
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4755
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		90%				
17060-07-0	1,2-Dichloroethane-D4		89%				
2037-26-5	Toluene-D8		91%				
460-00-4	P-Bromofluorobenzene		91%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-8
Client ID: G01-GS-46-1103
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4731
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	J	0.3	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	J	0.2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		89%				
17060-07-0	1,2-Dichloroethane-D4		91%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-9
Client ID: G01-GS-48-1103
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4731
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		88%				
17060-07-0	1,2-Dichloroethane-D4		89%				
2037-26-5	Toluene-D8		91%				
460-00-4	P-Bromofluorobenzene		91%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEYWEST
PO No:
Sample Date: 11/15/03
Received Date: 11/18/03
Extraction Date: 11/19/03
Analysis Date: 12/02/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-1
Client ID: G01-GS-31-1103
SDG: CTO318-4
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4661
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		1.7	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene		1.6	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	E	4.2	1.0	0.20	0.20	0.078
86-73-7	Fluorene	E	4.7	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	E	6.7	1.0	0.20	0.20	0.078
120-12-7	Anthracene		0.39	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	J	0.17	1.0	0.20	0.20	0.087
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.068
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.087
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.087
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.097
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	E	15	1.0	0.20	0.20	0.078
7297-45-2	2-Methylnaphthalene-d10		94%				
81103-79-9	Fluorene-d10		62%				
1718-52-1	Pyrene-d10		73%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEYWEST
PO No:
Sample Date: 11/15/03
Received Date: 11/18/03
Extraction Date: 11/19/03
Analysis Date: 12/02/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-1DL
Client ID: G01-GS-31-1103
SDG: CTO318-4
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4661
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	J	0.93	10	0.20	1.9	0.48
91-57-6	2-Methylnaphthalene	J	1.3	10	0.20	1.9	0.78
208-96-8	Acenaphthylene	U	1.9	10	0.20	1.9	0.48
83-32-9	Acenaphthene		4.2	10	0.20	1.9	0.78
86-73-7	Fluorene		5.9	10	0.20	1.9	0.58
85-01-8	Phenanthrene		6.1	10	0.20	1.9	0.78
120-12-7	Anthracene	U	1.9	10	0.20	1.9	0.78
206-44-0	Fluoranthene	U	1.9	10	0.20	1.9	1.1
129-00-0	Pyrene	U	1.9	10	0.20	1.9	0.87
56-55-3	Benzo(a)anthracene	U	1.9	10	0.20	1.9	1.2
218-01-9	Chrysene	U	1.9	10	0.20	1.9	0.68
205-99-2	Benzo(b)fluoranthene	U	1.9	10	0.20	1.9	0.87
207-08-9	Benzo(k)fluoranthene	U	1.9	10	0.20	1.9	0.78
50-32-8	Benzo(a)pyrene	U	1.9	10	0.20	1.9	0.87
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.9	10	0.20	1.9	0.97
53-70-3	Dibenzo(a,h)anthracene	U	1.9	10	0.20	1.9	1.4
191-24-2	Benzo(g,h,i)perylene	U	1.9	10	0.20	1.9	0.78
90-12-0	1-Methylnaphthalene		15	10	0.20	1.9	0.78
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEYWEST
PO No:
Sample Date: 11/15/03
Received Date: 11/18/03
Extraction Date: 11/19/03
Analysis Date: 12/02/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-2
Client ID: G01-GS-32-1103
SDG: CTO318-4
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4661
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	E	26	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	E	44	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene		2.0	1.0	0.20	0.20	0.078
86-73-7	Fluorene		2.7	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	E	3.4	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.087
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.068
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.087
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.087
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.097
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	E	37	1.0	0.20	0.20	0.078
7297-45-2	2-Methylnaphthalene-d10		57%				
81103-79-9	Fluorene-d10		53%				
1718-52-1	Pyrene-d10		54%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEYWEST
PO No:
Sample Date: 11/15/03
Received Date: 11/18/03
Extraction Date: 11/19/03
Analysis Date: 12/02/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-2DL
Client ID: G01-GS-32-1103
SDG: CTO318-4
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4661
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		25	25	0.20	4.8	1.2
91-57-6	2-Methylnaphthalene		41	25	0.20	4.8	1.9
208-96-8	Acenaphthylene	U	4.8	25	0.20	4.8	1.2
83-32-9	Acenaphthene	U	4.8	25	0.20	4.8	1.9
86-73-7	Fluorene	J	2.5	25	0.20	4.8	1.4
85-01-8	Phenanthrene	J	3.3	25	0.20	4.8	1.9
120-12-7	Anthracene	U	4.8	25	0.20	4.8	1.9
206-44-0	Fluoranthene	U	4.8	25	0.20	4.8	2.7
129-00-0	Pyrene	U	4.8	25	0.20	4.8	2.2
56-55-3	Benzo(a)anthracene	U	4.8	25	0.20	4.8	2.9
218-01-9	Chrysene	U	4.8	25	0.20	4.8	1.7
205-99-2	Benzo(b)fluoranthene	U	4.8	25	0.20	4.8	2.2
207-08-9	Benzo(k)fluoranthene	U	4.8	25	0.20	4.8	1.9
50-32-8	Benzo(a)pyrene	U	4.8	25	0.20	4.8	2.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	4.8	25	0.20	4.8	2.4
53-70-3	Dibenzo(a,h)anthracene	U	4.8	25	0.20	4.8	3.6
191-24-2	Benzo(g,h,i)perylene	U	4.8	25	0.20	4.8	1.9
90-12-0	1-Methylnaphthalene		39	25	0.20	4.8	1.9
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

Katahdin Analytical Services 2000029

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEYWEST
PO No:
Sample Date: 11/16/03
Received Date: 11/18/03
Extraction Date: 11/19/03
Analysis Date: 12/02/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-3
Client ID: G01-GS-33-1103
SDG: CTO318-4
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4661
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		0.81	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene		2.2	1.0	0.20	0.20	0.080
208-96-8	Acenaphthylene	J	0.071	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene		0.83	1.0	0.20	0.20	0.080
86-73-7	Fluorene		0.79	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene		0.20	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.090
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.080
90-12-0	1-Methylnaphthalene		2.0	1.0	0.20	0.20	0.080
7297-45-2	2-Methylnaphthalene-d10		69%				
81103-79-9	Fluorene-d10		58%				
1718-52-1	Pyrene-d10		79%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEYWEST
PO No:
Sample Date: 11/16/03
Received Date: 11/18/03
Extraction Date: 11/19/03
Analysis Date: 12/02/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-4
Client ID: G01-GS-36-1103
SDG: CTO318-4
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4661
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		0.78	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene		1.9	1.0	0.20	0.20	0.080
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene		0.38	1.0	0.20	0.20	0.080
86-73-7	Fluorene		0.48	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene	J	0.11	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.090
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.080
90-12-0	1-Methylnaphthalene		1.8	1.0	0.20	0.20	0.080
7297-45-2	2-Methylnaphthalene-d10		58%				
81103-79-9	Fluorene-d10		58%				
1718-52-1	Pyrene-d10		69%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEYWEST
PO No:
Sample Date: 11/16/03
Received Date: 11/18/03
Extraction Date: 11/19/03
Analysis Date: 12/02/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-5
Client ID: G01-GS-38-1103
SDG: CTO318-4
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4661
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		2.0	1.0	0.20	0.20	0.049
91-57-6	2-Methylnaphthalene	E	4.4	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.049
83-32-9	Acenaphthene		0.20	1.0	0.20	0.20	0.078
86-73-7	Fluorene		0.21	1.0	0.20	0.20	0.059
85-01-8	Phenanthrene		0.20	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.088
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.069
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.088
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.088
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.098
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	E	4.4	1.0	0.20	0.20	0.078
7297-45-2	2-Methylnaphthalene-d10		74%				
81103-79-9	Fluorene-d10		63%				
1718-52-1	Pyrene-d10		70%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEYWEST
PO No:
Sample Date: 11/16/03
Received Date: 11/18/03
Extraction Date: 11/19/03
Analysis Date: 12/03/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-5DL
Client ID: G01-GS-38-1103
SDG: CTO318-4
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4661
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		2.0	4.0	0.20	0.78	0.20
91-57-6	2-Methylnaphthalene		4.1	4.0	0.20	0.78	0.31
208-96-8	Acenaphthylene	U	0.78	4.0	0.20	0.78	0.20
83-32-9	Acenaphthene	U	0.78	4.0	0.20	0.78	0.31
86-73-7	Fluorene	U	0.78	4.0	0.20	0.78	0.24
85-01-8	Phenanthrene	U	0.78	4.0	0.20	0.78	0.31
120-12-7	Anthracene	U	0.78	4.0	0.20	0.78	0.31
206-44-0	Fluoranthene	U	0.78	4.0	0.20	0.78	0.43
129-00-0	Pyrene	U	0.78	4.0	0.20	0.78	0.35
56-55-3	Benzo(a)anthracene	U	0.78	4.0	0.20	0.78	0.47
218-01-9	Chrysene	U	0.78	4.0	0.20	0.78	0.27
205-99-2	Benzo(b)fluoranthene	U	0.78	4.0	0.20	0.78	0.35
207-08-9	Benzo(k)fluoranthene	U	0.78	4.0	0.20	0.78	0.31
50-32-8	Benzo(a)pyrene	JB	0.44	4.0	0.20	0.78	0.35
193-39-5	Indeno(1,2,3-cd)pyrene	JB	0.54	4.0	0.20	0.78	0.39
53-70-3	Dibenzo(a,h)anthracene	JB	0.50	4.0	0.20	0.78	0.59
191-24-2	Benzo(g,h,i)perylene	U	0.78	4.0	0.20	0.78	0.31
90-12-0	1-Methylnaphthalene		5.0	4.0	0.20	0.78	0.31
7297-45-2	2-Methylnaphthalene-d10		93%				
81103-79-9	Fluorene-d10		61%				
1718-52-1	Pyrene-d10		74%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEYWEST
PO No:
Sample Date: 11/16/03
Received Date: 11/18/03
Extraction Date: 11/19/03
Analysis Date: 12/02/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-6
Client ID: G01-GS-40-1103
SDG: CTO318-4
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4661
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	E	26	1.0	0.20	0.20	0.049
91-57-6	2-Methylnaphthalene	E	10	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.049
83-32-9	Acenaphthene		0.76	1.0	0.20	0.20	0.078
86-73-7	Fluorene		0.66	1.0	0.20	0.20	0.059
85-01-8	Phenanthrene		0.40	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.088
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.069
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.088
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.088
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.098
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	E	12	1.0	0.20	0.20	0.078
7297-45-2	2-Methylnaphthalene-d10		60%				
81103-79-9	Fluorene-d10		47%				
1718-52-1	Pyrene-d10		58%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEYWEST
PO No:
Sample Date: 11/16/03
Received Date: 11/18/03
Extraction Date: 11/19/03
Analysis Date: 12/03/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-6DL
Client ID: G01-GS-40-1103
SDG: CTO318-4
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4661
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		32	25	0.20	4.9	1.2
91-57-6	2-Methylnaphthalene		8.6	25	0.20	4.9	2.0
208-96-8	Acenaphthylene	U	4.9	25	0.20	4.9	1.2
83-32-9	Acenaphthene	U	4.9	25	0.20	4.9	2.0
86-73-7	Fluorene	U	4.9	25	0.20	4.9	1.5
85-01-8	Phenanthrene	U	4.9	25	0.20	4.9	2.0
120-12-7	Anthracene	U	4.9	25	0.20	4.9	2.0
206-44-0	Fluoranthene	U	4.9	25	0.20	4.9	2.7
129-00-0	Pyrene	U	4.9	25	0.20	4.9	2.2
56-55-3	Benzo(a)anthracene	U	4.9	25	0.20	4.9	2.9
218-01-9	Chrysene	U	4.9	25	0.20	4.9	1.7
205-99-2	Benzo(b)fluoranthene	U	4.9	25	0.20	4.9	2.2
207-08-9	Benzo(k)fluoranthene	U	4.9	25	0.20	4.9	2.0
50-32-8	Benzo(a)pyrene	JB	2.8	25	0.20	4.9	2.2
193-39-5	Indeno(1,2,3-cd)pyrene	JB	3.7	25	0.20	4.9	2.4
53-70-3	Dibenzo(a,h)anthracene	JB	3.6	25	0.20	4.9	3.7
191-24-2	Benzo(g,h,i)perylene	U	4.9	25	0.20	4.9	2.0
90-12-0	1-Methylnaphthalene		13	25	0.20	4.9	2.0
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEYWEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date: 11/19/03
Analysis Date: 12/02/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-7
Client ID: G01-GS-43-1103
SDG: CTO318-4
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4661
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	E	15	1.0	0.20	0.20	0.049
91-57-6	2-Methylnaphthalene	E	26	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.049
83-32-9	Acenaphthene		2.1	1.0	0.20	0.20	0.078
86-73-7	Fluorene	E	3.2	1.0	0.20	0.20	0.059
85-01-8	Phenanthrene	E	3.9	1.0	0.20	0.20	0.078
120-12-7	Anthracene		0.26	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.088
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.069
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.088
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.088
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.098
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	E	29	1.0	0.20	0.20	0.078
7297-45-2	2-Methylnaphthalene-d10		64%				
81103-79-9	Fluorene-d10		60%				
1718-52-1	Pyrene-d10		114%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEYWEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date: 11/19/03
Analysis Date: 12/03/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-7DL
Client ID: G01-GS-43-1103
SDG: CTO318-4
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4661
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		17	25	0.20	4.9	1.2
91-57-6	2-Methylnaphthalene		24	25	0.20	4.9	2.0
208-96-8	Acenaphthylene	U	4.9	25	0.20	4.9	1.2
83-32-9	Acenaphthene	J	2.1	25	0.20	4.9	2.0
86-73-7	Fluorene	J	2.3	25	0.20	4.9	1.5
85-01-8	Phenanthrene	J	4.2	25	0.20	4.9	2.0
120-12-7	Anthracene	U	4.9	25	0.20	4.9	2.0
206-44-0	Fluoranthene	U	4.9	25	0.20	4.9	2.7
129-00-0	Pyrene	U	4.9	25	0.20	4.9	2.2
56-55-3	Benzo(a)anthracene	U	4.9	25	0.20	4.9	2.9
218-01-9	Chrysene	U	4.9	25	0.20	4.9	1.7
205-99-2	Benzo(b)fluoranthene	U	4.9	25	0.20	4.9	2.2
207-08-9	Benzo(k)fluoranthene	U	4.9	25	0.20	4.9	2.0
50-32-8	Benzo(a)pyrene	JB	2.6	25	0.20	4.9	2.2
193-39-5	Indeno(1,2,3-cd)pyrene	JB	3.1	25	0.20	4.9	2.4
53-70-3	Dibenzo(a,h)anthracene	U	4.9	25	0.20	4.9	3.7
191-24-2	Benzo(g,h,i)perylene	U	4.9	25	0.20	4.9	2.0
90-12-0	1-Methylnaphthalene		33	25	0.20	4.9	2.0
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEYWEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date: 11/19/03
Analysis Date: 12/02/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-8
Client ID: G01-GS-46-1103
SDG: CTO318-4
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4661
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		2.2	1.0	0.20	0.20	0.049
91-57-6	2-Methylnaphthalene		1.4	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.049
83-32-9	Acenaphthene		2.5	1.0	0.20	0.20	0.078
86-73-7	Fluorene		1.5	1.0	0.20	0.20	0.059
85-01-8	Phenanthrene		1.9	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.088
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.069
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.088
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.088
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.098
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene		2.4	1.0	0.20	0.20	0.078
7297-45-2	2-Methylnaphthalene-d10		51%				
81103-79-9	Fluorene-d10		58%				
1718-52-1	Pyrene-d10		67%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEYWEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date: 11/19/03
Analysis Date: 12/02/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2911-9
Client ID: G01-GS-48-1103
SDG: CTO318-4
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4661
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		0.47	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene		0.36	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	J	0.091	1.0	0.20	0.20	0.078
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.087
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.068
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.087
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.087
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.097
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene		0.36	1.0	0.20	0.20	0.078
7297-45-2	2-Methylnaphthalene-d10		72%				
81103-79-9	Fluorene-d10		60%				
1718-52-1	Pyrene-d10		94%				

APPENDIX C

SUPPORT DOCUMENTATION

HOLDTIME

SDG 3184

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	G01-GS-37-1103	WT2911-15	NM	11/16/2003	11/21/2003	11/21/2003	5	0	5
OV	%	G01-GS-28-1103	WT2911-10	NM	11/15/2003	11/21/2003	11/21/2003	6	0	6
OV	%	G01-GS-45-1103RA	WT2911-20RA	NM	11/17/2003	11/22/2003	11/22/2003	5	0	5
OV	%	G01-GS-44-1103	WT2911-19	NM	11/17/2003	11/22/2003	11/22/2003	5	0	5
OV	%	G01-GS-43-1103	WT2911-7	NM	11/17/2003	11/21/2003	11/21/2003	4	0	4
OV	%	G01-GS-42-1103	WT2911-18	NM	11/16/2003	11/22/2003	11/22/2003	6	0	6
OV	%	G01-GS-41-1103	WT2911-17	NM	11/16/2003	11/22/2003	11/22/2003	6	0	6
OV	%	G01-GS-40-1103	WT2911-6	NM	11/16/2003	11/21/2003	11/21/2003	5	0	5
OV	%	G01-GS-46-1103	WT2911-8	NM	11/17/2003	11/21/2003	11/21/2003	4	0	4
OV	%	G01-GS-38-1103	WT2911-5	NM	11/16/2003	11/21/2003	11/21/2003	5	0	5
OV	%	G01-GS-48-1103	WT2911-9	NM	11/17/2003	11/21/2003	11/21/2003	4	0	4
OV	%	G01-GS-36-1103	WT2911-4	NM	11/16/2003	11/21/2003	11/21/2003	5	0	5
OV	%	G01-GS-35-1103	WT2911-14	NM	11/16/2003	11/21/2003	11/21/2003	5	0	5
OV	%	G01-GS-34-1103	WT2911-13	NM	11/16/2003	11/21/2003	11/21/2003	5	0	5
OV	%	G01-GS-33-1103	WT2911-3	NM	11/16/2003	11/21/2003	11/21/2003	5	0	5

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	G01-GS-32-1103	WT2911-2	NM	11/15/2003	11/21/2003	11/21/2003	6	0	6
OV	%	G01-GS-31-1103	WT2911-1	NM	11/15/2003	11/21/2003	11/21/2003	6	0	6
OV	%	G01-GS-30-1103	WT2911-12	NM	11/15/2003	11/21/2003	11/21/2003	6	0	6
OV	%	G01-GS-29-1103	WT2911-11	NM	11/15/2003	11/21/2003	11/21/2003	6	0	6
OV	%	G01-GS-39-1103	WT2911-16	NM	11/16/2003	11/22/2003	11/22/2003	6	0	6
OV	UG/L	G01-GS-37-1103	WT2911-15	NM	11/16/2003	11/21/2003	11/21/2003	5	0	5
OV	UG/L	G01-GS-46-1103	WT2911-8	NM	11/17/2003	11/21/2003	11/21/2003	4	0	4
OV	UG/L	G01-GS-45-1103RA	WT2911-20RA	NM	11/17/2003	11/22/2003	11/22/2003	5	0	5
OV	UG/L	G01-GS-44-1103	WT2911-19	NM	11/17/2003	11/22/2003	11/22/2003	5	0	5
OV	UG/L	G01-GS-43-1103	WT2911-7	NM	11/17/2003	11/21/2003	11/21/2003	4	0	4
OV	UG/L	G01-GS-42-1103	WT2911-18	NM	11/16/2003	11/22/2003	11/22/2003	6	0	6
OV	UG/L	G01-GS-41-1103	WT2911-17	NM	11/16/2003	11/22/2003	11/22/2003	6	0	6
OV	UG/L	G01-GS-40-1103	WT2911-6	NM	11/16/2003	11/21/2003	11/21/2003	5	0	5
OV	UG/L	G01-GS-28-1103	WT2911-10	NM	11/15/2003	11/21/2003	11/21/2003	6	0	6
OV	UG/L	G01-GS-38-1103	WT2911-5	NM	11/16/2003	11/21/2003	11/21/2003	5	0	5
OV	UG/L	G01-GS-48-1103	WT2911-9	NM	11/17/2003	11/21/2003	11/21/2003	4	0	4
OV	UG/L	G01-GS-36-1103	WT2911-4	NM	11/16/2003	11/21/2003	11/21/2003	5	0	5
OV	UG/L	G01-GS-35-1103	WT2911-14	NM	11/16/2003	11/21/2003	11/21/2003	5	0	5

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	UG/L	G01-GS-34-1103	WT2911-13	NM	11/16/2003	11/21/2003	11/21/2003	5	0	5
OV	UG/L	G01-GS-33-1103	WT2911-3	NM	11/15/2003	11/21/2003	11/21/2003	5	0	5
OV	UG/L	G01-GS-32-1103	WT2911-2	NM	11/15/2003	11/21/2003	11/21/2003	6	0	6
OV	UG/L	G01-GS-31-1103	WT2911-1	NM	11/15/2003	11/21/2003	11/21/2003	6	0	6
OV	UG/L	G01-GS-30-1103	WT2911-12	NM	11/15/2003	11/21/2003	11/21/2003	6	0	6
OV	UG/L	G01-GS-29-1103	WT2911-11	NM	11/15/2003	11/21/2003	11/21/2003	6	0	6
OV	UG/L	G01-GS-39-1103	WT2911-16	NM	11/16/2003	11/22/2003	11/22/2003	6	0	6

HOLDTIM

SDG 3184

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	%	G01-GS-48-1103	WT2911-9	NM	11/17/2003	11/19/2003	12/2/2003	2	13	15
OS	%	G01-GS-32-1103	WT2911-2	NM	11/15/2003	11/19/2003	12/2/2003	4	13	17
OS	%	G01-GS-33-1103	WT2911-3	NM	11/16/2003	11/19/2003	12/2/2003	3	13	16
OS	%	G01-GS-36-1103	WT2911-4	NM	11/16/2003	11/19/2003	12/2/2003	3	13	16
OS	%	G01-GS-38-1103	WT2911-5	NM	11/16/2003	11/19/2003	12/2/2003	3	13	16
OS	%	G01-GS-40-1103	WT2911-6	NM	11/16/2003	11/19/2003	12/2/2003	3	13	16
OS	%	G01-GS-43-1103	WT2911-7	NM	11/17/2003	11/19/2003	12/2/2003	2	13	15
OS	%	G01-GS-31-1103	WT2911-1	NM	11/15/2003	11/19/2003	12/2/2003	4	13	17
OS	%	G01-GS-46-1103	WT2911-8	NM	11/17/2003	11/19/2003	12/2/2003	2	13	15
OS	UG/L	G01-GS-48-1103	WT2911-9	NM	11/17/2003	11/19/2003	12/2/2003	2	13	15
OS	UG/L	G01-GS-32-1103	WT2911-2	NM	11/15/2003	11/19/2003	12/2/2003	4	13	17
OS	UG/L	G01-GS-33-1103	WT2911-3	NM	11/16/2003	11/19/2003	12/2/2003	3	13	16
OS	UG/L	G01-GS-36-1103	WT2911-4	NM	11/16/2003	11/19/2003	12/2/2003	3	13	16
OS	UG/L	G01-GS-38-1103	WT2911-5	NM	11/16/2003	11/19/2003	12/2/2003	3	13	16
OS	UG/L	G01-GS-40-1103	WT2911-6	NM	11/16/2003	11/19/2003	12/2/2003	3	13	16

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	UG/L	G01-GS-43-1103	WT2911-7	NM	11/14/2003	11/19/2003	12/2/2003	2	13	15
OS	UG/L	G01-GS-46-1103	WT2911-8	NM	11/17/2003	11/19/2003	12/2/2003	2	13	15
OS	UG/L	G01-GS-31-1103	WT2911-1	NM	11/15/2003	11/19/2003	12/2/2003	4	13	17

CTO 318
SDG 3184
OV

VOLATILES DATA

Katahdin
ANALYTICAL SERVICES

Cert. No. E87604

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NAF KEY WEST CTO297/318
TASK ORDER MANAGER: CHARLES BRYAN
CTO318-4

Sample Receipt

The following samples were received on November 18, 2003 and were logged in under Katahdin Analytical Services work order number WT2911 for a hardcopy due date of December 2, 2003.

KATAHDIN Sample No.	TTNUS Sample Identification
WT2911-1	G01-GS-31-1103
WT2911-2	G01-GS-32-1103
WT2911-3	G01-GS-33-1103
WT2911-4	G01-GS-36-1103
WT2911-5	G01-GS-38-1103
WT2911-6	G01-GS-40-1103
WT2911-7	G01-GS-43-1103
WT2911-8	G01-GS-46-1103
WT2911-9	G01-GS-48-1103
WT2911-10	G01-GS-28-1103
WT2911-11	G01-GS-29-1103
WT2911-12	G01-GS-30-1103
WT2911-13	G01-GS-34-1103
WT2911-14	G01-GS-35-1103
WT2911-15	G01-GS-37-1103
WT2911-16	G01-GS-39-1103
WT2911-17	G01-GS-41-1103
WT2911-18	G01-GS-42-1103
WT2911-19	G01-GS-44-1103
WT2911-20	G01-GS-45-1103

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Organics Laboratory

The samples of SDG CTO318-4 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, Office of Solid Waste and Emergency Response for the specific method listed below. Some manual integrations may have been performed due to split peaks and/or corrected baselines. All have been flagged with a "M" (software-generated) on the pertinent quantitation reports.

8260B Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The acceptance limits for the MS/MSD are for a short list of the spiked compounds. Katahdin standard operating procedure is to not take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory contaminants acetone and methylene chloride) in the LCS are outside of the QC limits.

Some method blanks may have detected one or more target analytes above the MDL. Any of these analytes that were also detected in any of the associated samples were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

8270C SIM Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The acceptance limits for the MS/MSD are for a short list of the spiked compounds. Katahdin standard operating procedure is not to take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory phthalate ester contaminants) in the LCS are outside of the QC limits.

Some method blanks may have detected one or more target analytes above the MDL. Any of these analytes that were also detected in any of the associated samples were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

There were three initial calibrations performed for this SDG. The initial calibration analyzed on the U instrument on 12/03/03 had %RSD values for several analytes that exceeded the method acceptance limit of 15%. For these analytes, either a linear or quadratic model was used for quantitation instead of an average response factor. The analytes chrysene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene and benzo(g,h,i)perylene failed for both the linear and quadratic models in the initial calibration curve due to the correlation coefficient being less than the method acceptance criteria of 0.990. These compounds were calibrated using the averaged model.

Sample WG4661-2 (LCS) had a high recovery for one surrogate which was outside the laboratory established acceptance limits. Since the recoveries of the spiked analytes were acceptable, the LCS was not reanalyzed.

There were no other protocol deviations or observations noted by the organics laboratory staff

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Maria Crouch
12.05.03
Maria Crouch
Quality Assurance Officer

WT2910, WT2911, WT2912, WT2913

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 3878 | PAGE 1 OF 3

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 318	NAS Key West	Chuck Bryan	803-649-7963x345	Katahdin Analytical - Andrea Colby
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
Emily McRee		Emily McRee	305-219-1662	340 County Rd. No. 5
		CARRIER WAYBILL NUMBER		CITY, STATE
		8425 8908 7800		Westbrook, ME 04092

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☒ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G

PRESERVATIVE USED: / /

TYPE OF ANALYSIS: PPL VOHs + BTEX, MTBE; PAH

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	PPL VOHs + BTEX, MTBE	PAH							COMMENTS
11/15	0740	G01-GS-23-1103	SB-23	—	—	GW	G	3	3								
11/15	0830	G01-GS-24-1103	SB-24	—	—	GW	G	3	3								
11/15	0900	G01-GS-25-1103	SB-25	—	—	GW	G	3	3								
11/15	1000	G01-GS-26-1103	SB-26	—	—	GW	G	3	3								
11/15	1040	G01-GS-27-1103	SB-27	—	—	GW	G	3	3								
11/15	0000	KW-DUP-03-1103	—	—	—	GW	G	3	3								
11/15	1115	G01-GS-28-1103	SB-28	—	—	GW	G	3	3								
11/15	1140	G01-GS-29-1103	SB-29	—	—	GW	G	3	3								
11/15	1220	G01-GS-30-1103	SB-30	—	—	GW	G	3	3								
11/15	1300	G01-GS-31-1103	SB-31	—	—	GW	G	5	3	2							
11/15	1345	G01-GS-32-1103	SB-32	—	—	GW	G	5	3	2							
11/16	0900	G01-GS-33-1103	SB-33	—	—	GW	G	5	3	2							
11/16	0940	G01-GS-34-1103	SB-34	—	—	GW	G	3	3								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Emily McRee	11/17/03	1630	1. RECEIVED BY: [signature]	11-18-03	0905
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TINUS 001

8000000

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 3879 | PAGE 2 OF 3

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 318	NAS Key West			
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
Emily McKee				
		CARRIER/WAYBILL NUMBER 8425 8908 7800		CITY, STATE

STANDARD TAT ☐
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☒ 14 day

DATE (YEAR 2003)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)										COMMENTS
									G	G									
									PRESERVATIVE USED										
									TYPE OF ANALYSIS: PPL VOHs + BTEX, MTBE; PAH										
11/16	1010	G01-GS-35-1103	SB-35	—		GW	G	3	3										
11/16	1040	G01-GS-36-1103	SB-36	—		GW	G	5	3	2									
11/16	1120	G01-GS-37-1103	SB-37	—		GW	G	3	3										
11/16	1220	G01-GS-38-1103	SB-38	—		GW	G	5	3	2									
11/16	1300	G01-GS-39-1103	SB-39	—		GW	G	3	3										
11/16	1345	G01-GS-40-1103	SB-40	—		GW	G	5	3	2									
11/16	1420	G01-GS-41-1103	SB-41	—		GW	G	3	3										
11/16	1515	G01-GS-42-1103	SB-42	—		GW	G	3	3										
11/17	0800	G01-GS-43-1103	SB-43	—		GW	G	5	3	2									
11/17	0900	G01-GS-44-1103	SB-44	—		GW	G	3	3										
11/17	0940	G01-GS-45-1103	SB-45	—		GW	G	3	3										
11/17	1020	G01-GS-46-1103	SB-46	—		GW	G	5	3	2									
11/17	1050	G01-GS-47-1103	SB-47	—		GW	G	3	3										

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY			1. RECEIVED BY	11-16-03	0905
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R

FORM NO. TINUS-001

BWWW

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 3880 | PAGE 3 OF 3

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 318	NAS KW			

SAMPLERS (SIGNATURE)	FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
Emily McKee			

CARRIER/WAYBILL NUMBER	CITY, STATE
84 25 8908 7800	

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☒ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G, G, G, G

PRESERVATIVE USED: 3 DI 1 MeOH

TYPE OF ANALYSIS

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	PVL VOHs + BTEX, MTBE	PAH	BTEX, MTBE	TRPH					COMMENTS
11/17	0000	KW-DUP-04-1103	—	—	—	GW	G	3	3								
11/17	1120	G01-GS-48-1103	SB-48	—	—	GW	G	5	3	2							
11/17	1200	G01-GS-49-1103	SB-49	—	—	GW	G	3	3								
11/17	1215	G01-GS-50-1103	SB-50	—	—	GW	G	3	3								
11/17	1250	G01-GS-51-1103	SB-51	—	—	GW	G	6	6								MS/MSD
11/17	1340	G01-GS-52-1103	SB-52	—	—	GW	G	3	3								
11/17	1345	G01-SB-19-1103H	SB-19	0	2	SO	G	6		1	4	1					
11/17	0000	KW-DUP-05-1103	—	—	—	SO	G	6		1	4	1					
11/6	1550	KW-TB-111703	—	—	—	QC	G	2	2								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY			1. RECEIVED BY [signature]	11-18-03	0905
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-4

Lab File ID: SB544 BFB Injection Date: 11/20/03

Instrument ID: GCMS-S BFB Injection Time: 1530

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.6
75	30.0 - 60.0% of mass 95	45.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	76.1
175	4.0 - 9.0% of mass 174	5.1 (6.7)1
176	95.0 - 101.0% of mass 174	75.2 (98.9)1
177	5.0 - 9.0% of mass 176	5.8 (7.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD005S20A	S9025	11/20/03	1710
02		VSTD200S20B	S9030	11/20/03	2005
03		VSTD100S20B	S9031	11/20/03	2040
04		VSTD020S20B	S9032	11/20/03	2115
05		VSTD001S20C	S9034	11/20/03	2226
06		VSTD050S20D	S9037	11/21/03	0011
07					
08					
09					
10					
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12					
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-4

Lab File ID: SB545 BFB Injection Date: 11/21/03

Instrument ID: GCMS-S BFB Injection Time: 0638

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	45.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	90.0
175	4.0 - 9.0% of mass 174	4.0 (4.5)1
176	95.0 - 101.0% of mass 174	90.1 (100.1)1
177	5.0 - 9.0% of mass 176	5.2 (5.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050S21A	S9038	11/21/03	0704
02	WG4701-LCS	WG4701-1	S9039	11/21/03	0808
03	WG4701-BLANK	WG4701-2	S9041	11/21/03	0922
04	G01-GS-31-1103	WT2911-1	S9044	11/21/03	1112
05	G01-GS-32-1103	WT2911-2	S9045	11/21/03	1147
06	G01-GS-33-1103	WT2911-10	S9046	11/21/03	1222
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WG4701-2
Client ID: WG4701-BLANK
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4701
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	1	1.0	1	1	0.3
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.1
74-83-9	Bromomethane	U	1	1.0	1	1	0.9
75-00-3	Chloroethane	U	1	1.0	1	1	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	J	0.7	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		88%				
17060-07-0	1,2-Dichloroethane-D4		88%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		90%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4701-1
Client ID: WG4701-LCS
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4701
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	50		99	4-217
Chloromethane	50	NA	49		98	40-163
Vinyl chloride	50	NA	52		105	55-151
Bromomethane	50	NA	58		116	24-217
Chloroethane	50	NA	50		100	69-134
Trichlorofluoromethane	50	NA	51		101	71-147
Diethyl Ether	50	NA	55		109	67-135
Tertiary-butyl alcohol	250	NA	267		107	58-146
1,1-Dichloroethene	50	NA	56		113	78-136
Carbon Disulfide	50	NA	50		101	70-136
Freon-113	50	NA	53		106	60-140
Iodomethane	50	NA	43		85	60-140
Acrolein	250	NA	275		110	0-199
Methylene Chloride	50	NA	53		106	52-115
Acetone	50	NA	78		156	0-158
Isobutyl Alcohol	1000	NA	1050		105	60-140
trans-1,2-Dichloroethene	50	NA	53		106	84-131
Allyl Chloride	50	NA	64		128	60-140
Methyl tert-butyl ether	100	NA	108		108	62-130
Acetonitrile	500	NA	529		106	53-141
Di-isopropyl ether	50	NA	53		106	82-130
Chloroprene	50	NA	53		106	60-140
Methacrylonitrile	500	NA	540		108	60-140
Propionitrile	500	NA	555		111	60-140
1,1-Dichloroethane	50	NA	54		109	81-134
Acrylonitrile	250	NA	237		95	29-172
Ethyl tertiary-butyl ether	50	NA	53		107	85-124
Vinyl Acetate		NA				68-174
cis-1,2-Dichloroethene	50	NA	52		104	84-123
1,2-Dichloroethylene (total)	100	NA	105		105	84-131
Methyl Methacrylate	50	NA	53		106	60-140
2,2-Dichloropropane	50	NA	48		97	69-150
Bromochloromethane	50	NA	52		104	77-146
Chloroform	50	NA	49		98	80-130
Carbon Tetrachloride	50	NA	53		106	74-137
Tetrahydrofuran	50	NA	55		111	32-140
1,1,1-Trichloroethane	50	NA	53		106	76-138
1,1-Dichloropropene	50	NA	52		103	82-120
2-Butanone	50	NA	83	*	165	49-154
Benzene	50	NA	51		102	88-120
Cyclohexane		NA				60-140
Ethyl Methacrylate	50	NA	48		97	60-140
Tertiary-amyl methyl ether	50	NA	52		104	85-125
1,2-Dichloroethane	50	NA	49		98	78-138
Trichloroethene	50	NA	49		98	80-125

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4701-1
Client ID: WG4701-LCS
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4701
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dibromomethane	50	NA	52	105	88-130
1,2-Dichloropropane	50	NA	51	101	80-122
Bromodichloromethane	50	NA	49	98	83-133
cis-1,3-dichloropropene	50	NA	52	103	81-138
1,4-Dioxane	1000	NA	1000	100	60-140
2-Chloroethylvinylether	50	NA	27	54	50-211
Toluene	50	NA	51	101	88-121
4-methyl-2-pentanone	50	NA	53	107	72-140
Tetrachloroethene	50	NA	46	93	77-129
trans-1,3-Dichloropropene	50	NA	54	108	81-149
1,1,2-Trichloroethane	50	NA	51	101	82-126
Dibromochloromethane	50	NA	52	104	80-133
1,3-Dichloropropane	50	NA	52	104	86-125
1,2-Dibromoethane	50	NA	50	101	88-127
2-Hexanone	50	NA	52	105	45-146
Chlorobenzene	50	NA	52	103	84-123
Ethylbenzene	50	NA	51	102	84-134
1,1,1,2-Tetrachloroethane	50	NA	51	102	83-130
Xylenes (total)	150	NA	158	105	88-123
m+p-Xylenes	100	NA	105	105	88-122
o-Xylene	50	NA	53	106	90-123
Styrene	50	NA	52	104	87-131
Bromoform	50	NA	54	107	77-138
Isopropylbenzene	50	NA	57	115	88-125
cis-1,4-Dichloro-2-Butene	50	NA	59	117	60-140
trans-1,4-Dichloro-2-Butene	50	NA	54	107	60-140
Bromobenzene	50	NA	53	106	84-133
N-Propylbenzene	50	NA	56	112	88-124
1,1,2,2-Tetrachloroethane	50	NA	55	110	81-131
1,3,5-Trimethylbenzene	50	NA	56	111	89-124
2-Chlorotoluene	50	NA	54	109	84-128
1,2,3-Trichloropropane	50	NA	55	111	76-132
4-Chlorotoluene	50	NA	54	108	86-132
tert-Butylbenzene	50	NA	55	110	82-131
Pentachloroethane	50	NA	64	129	60-140
1,2,4-Trimethylbenzene	50	NA	53	105	88-121
P-Isopropyltoluene	50	NA	57	113	86-122
1,3-Dichlorobenzene	50	NA	55	111	86-124
1,4-Dichlorobenzene	50	NA	54	107	80-127
N-Butylbenzene	50	NA	54	109	81-133
sec-Butylbenzene	50	NA	55	109	85-122
1,2-Dichlorobenzene	50	NA	54	108	86-126
1,2-Dibromo-3-Chloropropane	50	NA	52	105	61-136
1,3,5-Trichlorobenzene	50	NA	54	107	67-128
Hexachlorobutadiene	50	NA	54	108	52-129

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4701-1
Client ID: WG4701-LCS
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4701
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	48		96	53-157
1,2,3-Trimethylbenzene	50	NA	53		106	60-140
Naphthalene	50	NA	43		86	45-151
1,2,3-Trichlorobenzene	50	NA	35		70	30-164
Methyl Acetate	50	NA	6.4	*	13	60-140
Methylcyclohexane	50	NA	54		108	60-140

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-4

Lab File ID: SB546 BFB Injection Date: 11/21/03

Instrument ID: GCMS-S BFB Injection Time: 1357

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.6
75	30.0 - 60.0% of mass 95	45.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	73.3
175	4.0 - 9.0% of mass 174	6.1 (8.4)1
176	95.0 - 101.0% of mass 174	71.0 (96.8)1
177	5.0 - 9.0% of mass 176	4.6 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050S21B	S9049	11/21/03	1423
02	WG4731-LCS	WG4731-1	S9050	11/21/03	1513
03	WG4731-BLANK	WG4731-2	S9052	11/21/03	1629
04	G01-GS-33-1103	WT2911-3	S9053	11/21/03	1704
05	G01-GS-36-1103	WT2911-4	S9054	11/21/03	1740
06	G01-GS-38-1103	WT2911-5	S9055	11/21/03	1815
07	G01-GS-40-1103	WT2911-6	S9056	11/21/03	1849
08	G01-GS-29-1103	WT2911-11	S9057	11/21/03	1925
09	G01-GS-30-1103	WT2911-12	S9058	11/21/03	2000
10	G01-GS-43-1103	WT2911-7	S9059	11/21/03	2035
11	G01-GS-46-1103	WT2911-8	S9060	11/21/03	2110
12	G01-GS-48-1103	WT2911-9	S9061	11/21/03	2145
13	G01-GS-34-1103	WT2911-13	S9062	11/21/03	2220
14	G01-GS-35-1103	WT2911-14	S9063	11/21/03	2256
15	G01-GS-37-1103	WT2911-15	S9064	11/21/03	2331
16	G01-GS-39-1103	WT2911-16	S9065	11/22/03	0006
17	G01-GS-41-1103	WT2911-17	S9066	11/22/03	0041
18	G01-GS-42-1103	WT2911-18	S9067	11/22/03	0116
19	G01-GS-44-1103	WT2911-19	S9068	11/22/03	0151
20					
21					
22					

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WG4731-2
Client ID: WG4731-BLANK
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4731
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	1	1.0	1	1	0.3
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.1
74-83-9	Bromomethane	U	1	1.0	1	1	0.9
75-00-3	Chloroethane	U	1	1.0	1	1	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	J	0.4	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		90%				
17060-07-0	1,2-Dichloroethane-D4		89%				
2037-26-5	Toluene-D8		90%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4731-1
Client ID: WG4731-LCS
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4731
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	49		97	4-217
Chloromethane	50	NA	43		85	40-163
Vinyl chloride	50	NA	52		104	55-151
Bromomethane	50	NA	46		92	24-217
Chloroethane	50	NA	50		101	69-134
Trichlorofluoromethane	50	NA	52		103	71-147
Diethyl Ether	50	NA	54		108	67-135
Tertiary-butyl alcohol	250	NA	282		113	58-146
1,1-Dichloroethene	50	NA	55		109	78-136
Carbon Disulfide	50	NA	48		96	70-136
Freon-113	50	NA	54		108	60-140
Iodomethane	50	NA	49		98	60-140
Acrolein	250	NA	222		89	0-199
Methylene Chloride	50	NA	52		104	52-115
Acetone	50	NA	90	*	180	0-158
Isobutyl Alcohol	1000	NA	1160		116	60-140
trans-1,2-Dichloroethene	50	NA	52		105	84-131
Allyl Chloride	50	NA	88	*	177	60-140
Methyl tert-butyl ether	100	NA	116		116	62-130
Acetonitrile	500	NA	566		113	53-141
Di-isopropyl ether	50	NA	55		111	82-130
Chloroprene	50	NA	54		107	60-140
Methacrylonitrile	500	NA	599		120	60-140
Propionitrile	500	NA	651		130	60-140
1,1-Dichloroethane	50	NA	56		113	81-134
Acrylonitrile	250	NA	274		110	29-172
Ethyl tertiary-butyl ether	50	NA	56		113	85-124
Vinyl Acetate	50	NA	108	*	216	68-174
cis-1,2-Dichloroethene	50	NA	53		106	84-123
1,2-Dichloroethylene (total)	100	NA	105		105	84-131
Methyl Methacrylate	50	NA	60		120	60-140
2,2-Dichloropropane	50	NA	62		124	69-150
Bromochloromethane	50	NA	59		119	77-146
Chloroform	50	NA	50		100	80-130
Carbon Tetrachloride	50	NA	58		116	74-137
Tetrahydrofuran	50	NA	66		132	32-140
1,1,1-Trichloroethane	50	NA	54		109	76-138
1,1-Dichloropropene	50	NA	53		106	82-120
2-Butanone	50	NA	98	*	195	49-154
Benzene	50	NA	52		104	88-120
Cyclohexane		NA				60-140
Ethyl Methacrylate	50	NA	55		111	60-140
Tertiary-amyl methyl ether	50	NA	56		112	85-125
1,2-Dichloroethane	50	NA	52		104	78-138
Trichloroethene	50	NA	50		100	80-125

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4731-1
Client ID: WG4731-LCS
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4731
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dibromomethane	50	NA	57	114	88-130
1,2-Dichloropropane	50	NA	51	102	80-122
Bromodichloromethane	50	NA	50	101	83-133
cis-1,3-dichloropropene	50	NA	53	106	81-138
1,4-Dioxane	1000	NA	1170	117	60-140
2-Chloroethylvinylether	50	NA	27	54	50-211
Toluene	50	NA	51	103	88-121
4-methyl-2-pentanone	50	NA	64	129	72-140
Tetrachloroethene	50	NA	48	96	77-129
trans-1,3-Dichloropropene	50	NA	57	113	81-149
1,1,2-Trichloroethane	50	NA	53	107	82-126
Dibromochloromethane	50	NA	56	112	80-133
1,3-Dichloropropane	50	NA	54	108	86-125
1,2-Dibromoethane	50	NA	55	110	88-127
2-Hexanone	50	NA	72	144	45-146
Chlorobenzene	50	NA	53	105	84-123
Ethylbenzene	50	NA	51	103	84-134
1,1,1,2-Tetrachloroethane	50	NA	53	105	83-130
Xylenes (total)	150	NA	160	107	88-123
m+p-Xylenes	100	NA	107	107	88-122
o-Xylene	50	NA	53	106	90-123
Styrene	50	NA	52	104	87-131
Bromoform	50	NA	60	120	77-138
Isopropylbenzene	50	NA	56	112	88-125
cis-1,4-Dichloro-2-Butene	50	NA	58	117	60-140
trans-1,4-Dichloro-2-Butene	50	NA	59	118	60-140
Bromobenzene	50	NA	53	107	84-133
N-Propylbenzene	50	NA	54	108	88-124
1,1,2,2-Tetrachloroethane	50	NA	60	121	81-131
1,3,5-Trimethylbenzene	50	NA	53	106	89-124
2-Chlorotoluene	50	NA	54	108	84-128
1,2,3-Trichloropropane	50	NA	59	117	76-132
4-Chlorotoluene	50	NA	53	107	86-132
tert-Butylbenzene	50	NA	55	109	82-131
Pentachloroethane	50	NA	66	131	60-140
1,2,4-Trimethylbenzene	50	NA	52	104	88-121
P-Isopropyltoluene	50	NA	54	109	86-122
1,3-Dichlorobenzene	50	NA	54	109	86-124
1,4-Dichlorobenzene	50	NA	55	110	80-127
N-Butylbenzene	50	NA	54	107	81-133
sec-Butylbenzene	50	NA	52	104	85-122
1,2-Dichlorobenzene	50	NA	56	112	86-126
1,2-Dibromo-3-Chloropropane	50	NA	59	118	61-136
1,3,5-Trichlorobenzene	50	NA	58	117	67-128
Hexachlorobutadiene	50	NA	55	110	52-129

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4731-1
Client ID: WG4731-LCS
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4731
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	60		121	53-157
1,2,3-Trimethylbenzene	50	NA	53		105	60-140
Naphthalene	50	NA	78	*	157	45-151
1,2,3-Trichlorobenzene	50	NA	53		106	30-164
Methyl Acetate	50	NA	37		74	60-140
Methylcyclohexane	50	NA	52		103	60-140

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-4

Lab File ID: SB547 BFB Injection Date: 11/22/03

Instrument ID: GCMS-S BFB Injection Time: 0805

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.1
75	30.0 - 60.0% of mass 95	44.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	78.8
175	4.0 - 9.0% of mass 174	5.7 (7.2)1
176	95.0 - 101.0% of mass 174	77.6 (98.5)1
177	5.0 - 9.0% of mass 176	5.6 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050S22A	S9070	11/22/03	0832
02	WG4755-LCS	WG4755-1	S9071	11/22/03	0913
03	WG4755-BLANK	WG4755-2	S9073	11/22/03	1028
04	G01-GS-45-1103	WT2911-20RA	S9081	11/22/03	1515
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-4

Instrument ID: GCMS-S Calibration Date: 11/22/03 Time: 0832

Lab File ID: S9070 Init. Calib. Date(s): 11/20/03 11/21/03

Init. Calib. Times: 1710 0011

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Chloromethane	0.5260000	0.2690600	0.2690600	0.1	-48.85		AVRG	
Vinyl chloride	0.4430000	0.3722100	0.3722100	0.01	-15.98	20.00	AVRG	
Bromomethane	0.2200000	9.73e-002	9.73e-002	0.01	-55.77		AVRG	
Chloroethane	0.2840000	0.2475400	0.2475400	0.01	-12.84		AVRG	
1,1-Dichloroethene	0.3760000	0.3194500	0.3194500	0.01	-15.04	20.00	AVRG	
Methylene Chloride	47.363000	50.000000	0.4616700	0.01	-5.27		LINR	
trans-1,2-Dichloroethene	0.4590000	0.4077600	0.4077600	0.01	-11.16		AVRG	
1,1-Dichloroethane	0.7380000	0.6866700	0.6866700	0.1	-6.96		AVRG	
cis-1,2-Dichloroethene	0.4980000	0.4646900	0.4646900	0.01	-6.69		AVRG	
Chloroform	0.8760000	0.7779200	0.7779200	0.01	-11.20	20.00	AVRG	
Carbon Tetrachloride	0.3580000	0.3377100	0.3377100	0.01	-5.67		AVRG	
1,1,1-Trichloroethane	0.6190000	0.5761700	0.5761700	0.01	-6.92		AVRG	
Benzene	1.4100000	1.2488000	1.2488000	0.01	-11.43		AVRG	
1,2-Dichloroethane	0.4220000	0.4058100	0.4058100	0.01	-3.84		AVRG	
Trichloroethene	0.3520000	0.2945400	0.2945400	0.01	-16.32		AVRG	
Methyl tert-butyl ether	1.0790000	1.1858000	1.1858000	0.01	9.90		AVRG	
1,2-Dichloropropane	0.3200000	0.2902100	0.2902100	0.01	-9.31	20.00	AVRG	
Bromodichloromethane	0.4500000	0.4374600	0.4374600	0.01	-2.79		AVRG	
cis-1,3-dichloropropene	0.5560000	0.5459200	0.5459200	0.01	-1.81		AVRG	
Toluene	0.8380000	0.7373400	0.7373400	0.01	-12.01	20.00	AVRG	
Tetrachloroethene	0.3930000	0.3054500	0.3054500	0.01	-22.28		AVRG	
trans-1,3-Dichloropropene	0.4360000	0.4480800	0.4480800	0.01	2.77		AVRG	
1,1,2-Trichloroethane	0.2340000	0.2314900	0.2314900	0.01	-1.07		AVRG	
Dibromochloromethane	0.3820000	0.3843300	0.3843300	0.01	0.61		AVRG	
Chlorobenzene	1.0220000	0.9383500	0.9383500	0.3	-8.18		AVRG	
Ethylbenzene	1.7970000	1.6008000	1.6008000	0.01	-10.92	20.00	AVRG	
Bromoform	0.2440000	0.2676100	0.2676100	0.1	9.68		AVRG	
1,1,2,2-Tetrachloroethane	0.6620000	0.7330200	0.7330200	0.3	10.73		AVRG	
Xylenes (total)	0.0000000	1.7226000	1.7226000	0.01	0.00		AVRG	<-

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-4

Instrument ID: GCMS-S Calibration Date: 11/22/03 Time: 0832

Lab File ID: S9070 Init. Calib. Date(s): 11/20/03 11/21/03

Init. Calib. Times: 1710 0011

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
m+p-Xylenes	0.6360000	0.5767000	0.5767000	0.01	-9.32		AVRG
o-Xylene	0.6190000	0.5692400	0.5692400	0.01	-8.04		AVRG
2-Chloroethylvinylether	46.886000	50.000000	0.1323800	0.01	-6.23		LINR
Dibromofluoromethane	0.4380000	0.4286200	0.4286200	0.01	-2.14		AVRG
1,2-Dichloroethane-D4	0.4680000	0.4466200	0.4466200	0.01	-4.57		AVRG
Toluene-D8	1.1430000	1.0401000	1.0401000	0.01	-9.00		AVRG
P-Bromofluorobenzene	0.4360000	0.4126300	0.4126300	0.01	-5.36		AVRG

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/03/2003
Matrix: WATER
% Solids: NA

Lab ID: WG4755-2
Client ID: WG4755-BLANK
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4755
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	1	1.0	1	1	0.3
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.1
74-83-9	Bromomethane	U	1	1.0	1	1	0.9
75-00-3	Chloroethane	U	1	1.0	1	1	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	J	1	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		91%				
17060-07-0	1,2-Dichloroethane-D4		93%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		96%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4755-1
Client ID: WG4755-LCS
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4755
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	42		84	4-217
Chloromethane	50	NA	27		55	40-163
Vinyl chloride	50	NA	44		88	55-151
Bromomethane	50	NA	18		35	24-217
Chloroethane	50	NA	42		85	69-134
Trichlorofluoromethane	50	NA	44		88	71-147
Diethyl Ether	50	NA	51		102	67-135
Tertiary-butyl alcohol	250	NA	258		103	58-146
1,1-Dichloroethene	50	NA	49		97	78-136
Carbon Disulfide	50	NA	43		85	70-136
Freon-113	50	NA	46		92	60-140
Iodomethane	50	NA	16	*	32	60-140
Acrolein	250	NA	211		84	0-199
Methylene Chloride	50	NA	50		99	52-115
Acetone	50	NA	82	*	164	0-158
Isobutyl Alcohol	1000	NA	1110		111	60-140
trans-1,2-Dichloroethene	50	NA	48		96	84-131
Allyl Chloride	50	NA	42		83	60-140
Methyl tert-butyl ether	100	NA	109		109	62-130
Acetonitrile	500	NA	552		110	53-141
Di-isopropyl ether	50	NA	50		99	82-130
Chloroprene	50	NA	47		95	60-140
Methacrylonitrile	500	NA	545		109	60-140
Propionitrile	500	NA	598		120	60-140
1,1-Dichloroethane	50	NA	47		93	81-134
Acrylonitrile	250	NA	246		98	29-172
Ethyl tertiary-butyl ether	50	NA	52		103	85-124
Vinyl Acetate	50	NA	83		167	68-174
cis-1,2-Dichloroethene	50	NA	46		93	84-123
1,2-Dichloroethylene (total)	100	NA	94		94	84-131
Methyl Methacrylate	50	NA	55		111	60-140
2,2-Dichloropropane	50	NA	46		91	69-150
Bromochloromethane	50	NA	49		97	77-146
Chloroform	50	NA	45		91	80-130
Carbon Tetrachloride	50	NA	50		99	74-137
Tetrahydrofuran	50	NA	57		114	32-140
1,1,1-Trichloroethane	50	NA	48		95	76-138
1,1-Dichloropropene	50	NA	45		90	82-120
2-Butanone	50	NA	85	*	169	49-154
Benzene	50	NA	46		91	88-120
Cyclohexane		NA				60-140
Ethyl Methacrylate	50	NA	51		101	60-140
Tertiary-amyl methyl ether	50	NA	51		103	85-125
1,2-Dichloroethane	50	NA	49		97	78-138
Trichloroethene	50	NA	44		87	80-125

Katahdin Analytical Services 1000016

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4755-1
Client ID: WG4755-LCS
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4755
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dibromomethane	50	NA	52		103	88-130
1,2-Dichloropropane	50	NA	47		93	80-122
Bromodichloromethane	50	NA	47		93	83-133
cis-1,3-dichloropropene	50	NA	49		98	81-138
1,4-Dioxane	1000	NA	1200		120	60-140
2-Chloroethylvinylether	50	NA	23	*	46	50-211
Toluene	50	NA	46		91	88-121
4-methyl-2-pentanone	50	NA	57		114	72-140
Tetrachloroethene	50	NA	42		85	77-129
trans-1,3-Dichloropropene	50	NA	53		105	81-149
1,1,2-Trichloroethane	50	NA	50		99	82-126
Dibromochloromethane	50	NA	51		103	80-133
1,3-Dichloropropane	50	NA	50		101	86-125
1,2-Dibromoethane	50	NA	51		102	88-127
2-Hexanone	50	NA	62		124	45-146
Chlorobenzene	50	NA	48		96	84-123
Ethylbenzene	50	NA	46		92	84-134
1,1,1,2-Tetrachloroethane	50	NA	48		97	83-130
Xylenes (total)	150	NA	143		95	88-123
m+p-Xylenes	100	NA	95		95	88-122
o-Xylene	50	NA	48		95	90-123
Styrene	50	NA	48		95	87-131
Bromoform	50	NA	54		109	77-138
Isopropylbenzene	50	NA	49		99	88-125
cis-1,4-Dichloro-2-Butene	50	NA	50		101	60-140
trans-1,4-Dichloro-2-Butene	50	NA	59		119	60-140
Bromobenzene	50	NA	50		99	84-133
N-Propylbenzene	50	NA	49		97	88-124
1,1,2,2-Tetrachloroethane	50	NA	56		112	81-131
1,3,5-Trimethylbenzene	50	NA	48		96	89-124
2-Chlorotoluene	50	NA	48		97	84-128
1,2,3-Trichloropropane	50	NA	53		106	76-132
4-Chlorotoluene	50	NA	49		97	86-132
tert-Butylbenzene	50	NA	47		94	82-131
Pentachloroethane	50	NA	60		120	60-140
1,2,4-Trimethylbenzene	50	NA	46		91	88-121
P-Isopropyltoluene	50	NA	48		97	86-122
1,3-Dichlorobenzene	50	NA	50		100	86-124
1,4-Dichlorobenzene	50	NA	50		100	80-127
N-Butylbenzene	50	NA	46		93	81-133
sec-Butylbenzene	50	NA	47		94	85-122
1,2-Dichlorobenzene	50	NA	51		102	86-126
1,2-Dibromo-3-Chloropropane	50	NA	52		104	61-136
1,3,5-Trichlorobenzene	50	NA	48		95	67-128
Hexachlorobutadiene	50	NA	47		93	52-129

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/22/03
Report Date: 12/03/2003
Matrix: WATER

Lab ID: WG4755-1
Client ID: WG4755-LCS
SDG: CTO318-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KM
Analysis Method: SW846 8260B
Lab Prep Batch: WG4755
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	42	84	53-157
1,2,3-Trimethylbenzene	50	NA	48	96	60-140
Naphthalene	50	NA	47	94	45-151
1,2,3-Trichlorobenzene	50	NA	32	65	30-164
Methyl Acetate	50	NA	32	64	60-140
Methylcyclohexane	50	NA	44	88	60-140

Katahdin Analytical Services 1000018

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEYWEST SDG No.: CTO318-4

Lab File ID: KD220 DFTPP Injection Date: 11/24/03

Instrument ID: GCMS-K DFTPP Injection Time: 0904

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.6
68	Less than 2.0% of mass 69	0.4 (0.6)1
69	Less than 100.0% of mass 198	58.9
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	41.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	8.3
275	10.0 - 30.0% of mass 198	25.7
365	1.0 - 100.0% of mass 198	3.5
441	0.0 - 100.0% of mass 443	16.0 (78.3)2
442	40.0 - 100.0% of mass 198	95.0
443	17.0 - 23.0% of mass 442	20.4 (21.5)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD3.00K1124	K5743	11/24/03	1030
02		SSTD2.50K1124	K5744	11/24/03	1120
03		SSTD2.00K1124	K5745	11/24/03	1210
04		SSTD0.625K1124	K5746	11/24/03	1259
05		SSTD0.125K1124	K5747	11/24/03	1351
06		SSTD1.25K1124	K5748	11/24/03	1442
07					
08					
09					
10					
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15					
16					
17					
18					
19					
20					

FORM 2
WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEYWEST SDG No.: CTO318-4

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	WG4661-BLANK	WG4661-1	94	100	83						0
02	WG4661-LCS	WG4661-2	89	81	277*						1
03	WG4661-LCSD	WG4661-3	82	76	120						0
04	G01-GS-31-1103	WT2911-1	94	62	73						0
05	G01-GS-32-1103	WT2911-2	57	53	54						0
06	G01-GS-33-1103	WT2911-3	69	58	79						0
07	G01-GS-36-1103	WT2911-4	58	58	69						0
08	G01-GS-38-1103	WT2911-5	74	63	70						0
09	G01-GS-40-1103	WT2911-6	60	47	58						0
10	G01-GS-43-1103	WT2911-7	64	60	114						0
11	G01-GS-46-1103	WT2911-8	51	58	67						0
12	G01-GS-48-1103	WT2911-9	72	60	94						0
13	G01-GS-31-1103	WT2911-1DL	D	D	D						0
14	G01-GS-32-1103	WT2911-2DL	D	D	D						0
15	WG4661-BLANK	WG4661-1RA	99	67	150						0
16	G01-GS-38-1103	WT2911-5DL	93	61	74						0
17	G01-GS-40-1103	WT2911-6DL	D	D	D						0
18	G01-GS-43-1103	WT2911-7DL	D	D	D						0
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

		QC LIMITS
S1	= 2-Methylnaphthalene-d1	(30-150)
S2	= Fluorene-d10	(30-150)
S3	= Pyrene-d10	(30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEYWEST SDG No.: CTO318-4

Lab File ID: KD222 DFTPP Injection Date: 11/25/03

Instrument ID: GCMS-K DFTPP Injection Time: 0836

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	59.3
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	42.0
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.7
275	10.0 - 30.0% of mass 198	21.7
365	1.0 - 100.0% of mass 198	2.6
441	0.0 - 100.0% of mass 443	15.2 (86.7)2
442	40.0 - 100.0% of mass 198	89.9
443	17.0 - 23.0% of mass 442	17.5 (19.5)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.25K1125	K5764	11/25/03	0951
02	WG4661-BLANK	WG4661-1	K5767	11/25/03	1227
03					
04					
05					
06					
07					
08					
09					
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19					
20					

FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEYWEST SDG No.: CTO318-4

Lab File ID: KD225 DFTPP Injection Date: 11/28/03

Instrument ID: GCMS-K DFTPP Injection Time: 0840

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	72.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	45.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	19.6
365	1.0 - 100.0% of mass 198	2.0
441	0.0 - 100.0% of mass 443	13.5 (84.4)2
442	40.0 - 100.0% of mass 198	84.3
443	17.0 - 23.0% of mass 442	16.0 (19.0)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD0.125K1128	K5815	11/28/03	1004
02		SSTD0.625K1128	K5816	11/28/03	1053
03		SSTD2.00K1128	K5817	11/28/03	1144
04		SSTD2.50K1128	K5818	11/28/03	1234
05		SSTD3.00K1128	K5819	11/28/03	1324
06		SSTD1.25K1128	K5820	11/28/03	1414
07					
08					
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11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEYWEST SDG No.: CTO318-4

Lab File ID: KD226 DFTPP Injection Date: 12/01/03

Instrument ID: GCMS-K DFTPP Injection Time: 0852

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	54.8
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	41.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	25.3
365	1.0 - 100.0% of mass 198	2.3
441	0.0 - 100.0% of mass 443	9.0 (73.3)2
442	40.0 - 100.0% of mass 198	54.2
443	17.0 - 23.0% of mass 442	12.3 (22.7)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.25K1201	K5821	12/01/03	0917
02	WG4661-LCS	WG4661-2	K5822	12/01/03	1012
03	WG4661-LCSD	WG4661-3	K5823	12/01/03	1102
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEYWEST SDG No.: CTO318-4

Instrument ID: GCMS-K Calibration Date: 12/01/03 Time: 0917

Lab File ID: K5821 Init. Calib. Date(s): 11/28/03 11/28/03

Init. Calib. Times: 0906 1414

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.2500 or AMOUNT	CCAL RRF1.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Naphthalene	0.9590000	0.9116800	0.9116800	0.01	-4.93		AVRG
2-Methylnaphthalene	0.4990000	0.4682900	0.4682900	0.01	-6.15		AVRG
Acenaphthylene	1.6890000	1.5942000	1.5942000	0.01	-5.61		AVRG
Acenaphthene	1.1220000	1.0513000	1.0513000	0.01	-6.30	20.00	AVRG
Fluorene	1.0660000	1.0567000	1.0567000	0.01	-0.87		AVRG
Phenanthrene	0.8900000	0.8425500	0.8425500	0.01	-5.33		AVRG
Anthracene	0.9760000	0.8729900	0.8729900	0.01	-10.55		AVRG
Fluoranthene	0.8950000	0.8888900	0.8888900	0.01	-0.68	20.00	AVRG
Pyrene	3.1032000	1.2500000	2.6712000	0.01	148.26		2RDR
Benzo(a)anthracene	1.1480000	1.0593000	1.0593000	0.01	-7.73		AVRG
Chrysene	1.1659000	1.2500000	1.1425000	0.01	-6.73		LINR
Benzo(b)fluoranthene	1.2460000	1.2116000	1.2116000	0.01	-2.76		AVRG
Benzo(k)fluoranthene	1.2155000	1.2500000	1.3004000	0.01	-2.76		2RDR
Benzo(a)pyrene	1.3049000	1.2500000	1.0261000	0.01	4.39		LINR
Indeno(1,2,3-cd)pyrene	0.9870000	0.9893900	0.9893900	0.01	0.24		AVRG
Dibenzo(a,h)anthracene	0.9350000	0.8789200	0.8789200	0.01	-6.00		AVRG
Benzo(g,h,i)perylene	1.0640000	0.9315100	0.9315100	0.01	-12.45		AVRG
1-Methylnaphthalene	0.5070000	0.4312300	0.4312300	0.01	-14.94		AVRG
2-Methylnaphthalene-d10	0.3550000	0.3305200	0.3305200	0.01	-6.90		AVRG
Fluorene-d10	0.9520000	0.9692600	0.9692600	0.01	1.81		AVRG
Pyrene-d10	2.7395000	1.2500000	1.8730000	0.01	119.16		LINR

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEYWEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/19/03
Analysis Date: 12/01/03
Report Date: 12/04/2003
Matrix: WATER

Lab ID: WG4661-2 & WG4661-3
Client ID: WG4661-LCS & WG4661-LCSD
SDG: CTO318-4
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4661
Units: ug/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Naphthalene	2.0	2.0	NA	1.4	1.3	69	64	8	30	30-150
2-Methylnaphthalene	2.0	2.0	NA	1.6	1.6	80	78	2	30	30-150
Acenaphthylene	2.0	2.0	NA	1.6	1.5	79	74	7	30	30-150
Acenaphthene	2.0	2.0	NA	1.5	1.4	76	68	10	30	30-150
Fluorene	2.0	2.0	NA	1.6	1.5	80	76	6	30	30-150
Phenanthrene	2.0	2.0	NA	1.6	1.5	80	76	6	30	30-150
Anthracene	2.0	2.0	NA	1.6	1.5	80	77	4	30	30-150
Fluoranthene	2.0	2.0	NA	1.8	1.6	89	82	9	30	30-150
Pyrene	2.0	2.0	NA	5.4	2.0	* 272	101	* 92	30	30-150
Benzo(a)anthracene	2.0	2.0	NA	1.7	1.6	86	82	4	30	30-150
Chrysene	2.0	2.0	NA	1.8	1.7	90	84	7	30	30-150
Benzo(b)fluoranthene	2.0	2.0	NA	1.7	1.6	86	78	9	30	30-150
Benzo(k)fluoranthene	2.0	2.0	NA	2.2	1.8	108	88	20	30	30-150
Benzo(a)pyrene	2.0	2.0	NA	1.9	1.8	97	90	7	30	30-150
Indeno(1,2,3-cd)pyrene	2.0	2.0	NA	1.9	1.8	96	92	4	30	30-150
Dibenzo(a,h)anthracene	2.0	2.0	NA	1.5	1.5	76	76	1	30	30-150
Benzo(g,h,i)perylene	2.0	2.0	NA	1.5	1.4	73	68	8	30	30-150

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEYWEST SDG No.: CTO318-4

Lab File ID: KD228 DFTPP Injection Date: 12/02/03

Instrument ID: GCMS-K DFTPP Injection Time: 1137

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	53.7
68	Less than 2.0% of mass 69	0.2 (0.4)1
69	Less than 100.0% of mass 198	59.9
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	40.0 - 60.0% of mass 198	42.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	5.9
275	10.0 - 30.0% of mass 198	21.4
365	1.0 - 100.0% of mass 198	3.8
441	0.0 - 100.0% of mass 443	12.5 (94.5)2
442	40.0 - 100.0% of mass 198	60.2
443	17.0 - 23.0% of mass 442	13.2 (21.9)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.25K1202	K5836	12/02/03	1202
02	G01-GS-31-1103	WT2911-1	K5837	12/02/03	1257
03	G01-GS-32-1103	WT2911-2	K5838	12/02/03	1347
04	G01-GS-33-1103	WT2911-3	K5839	12/02/03	1437
05	G01-GS-36-1103	WT2911-4	K5840	12/02/03	1527
06	G01-GS-38-1103	WT2911-5	K5841	12/02/03	1617
07	G01-GS-40-1103	WT2911-6	K5842	12/02/03	1707
08	G01-GS-43-1103	WT2911-7	K5843	12/02/03	1757
09	G01-GS-46-1103	WT2911-8	K5844	12/02/03	1848
10	G01-GS-48-1103	WT2911-9	K5845	12/02/03	1939
11	G01-GS-31-1103	WT2911-1DL	K5846	12/02/03	2028
12	G01-GS-32-1103	WT2911-2DL	K5847	12/02/03	2118
13					
14					
15					
16					
17					
18					
19					
20					

Katahdin Analytical Services 2000013

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEYWEST SDG No.: CTO318-4

Instrument ID: GCMS-K Calibration Date: 12/02/03 Time: 1202

Lab File ID: K5836 Init. Calib. Date(s): 11/28/03 11/28/03

Init. Calib. Times: 0906 1414

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.2500 or AMOUNT	CCAL RRF1.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Naphthalene	0.9590000	1.0434000	1.0434000	0.01	8.80		AVRG
2-Methylnaphthalene	0.4990000	0.5572300	0.5572300	0.01	11.67		AVRG
Acenaphthylene	1.6890000	1.4613000	1.4613000	0.01	-13.48		AVRG
Acenaphthene	1.1220000	1.3291000	1.3291000	0.01	18.46	20.00	AVRG
Fluorene	1.0660000	1.2044000	1.2044000	0.01	12.98		AVRG
Phenanthrene	0.8900000	0.9001700	0.9001700	0.01	1.14		AVRG
Anthracene	0.9760000	0.7936800	0.7936800	0.01	-18.68		AVRG
Fluoranthene	0.8950000	0.7861800	0.7861800	0.01	-12.16	20.00	AVRG
Pyrene	2.1820000	1.2500000	2.0422000	0.01	74.56		2RDR
Benzo(a)anthracene	1.1480000	0.9875000	0.9875000	0.01	-13.98		AVRG
Chrysene	1.7263000	1.2500000	1.6432000	0.01	38.10		LINR
Benzo(b)fluoranthene	1.2460000	1.3185000	1.3185000	0.01	5.82		AVRG
Benzo(k)fluoranthene	1.7483000	1.2500000	1.7615000	0.01	39.86		2RDR
Benzo(a)pyrene	1.3670000	1.2500000	1.0712000	0.01	9.36		LINR
Indeno(1,2,3-cd)pyrene	0.9870000	0.9804000	0.9804000	0.01	-0.67		AVRG
Dibenzo(a,h)anthracene	0.9350000	1.0018000	1.0018000	0.01	7.14		AVRG
Benzo(g,h,i)perylene	1.0640000	1.2757000	1.2757000	0.01	19.90		AVRG
1-Methylnaphthalene	0.5070000	0.5446700	0.5446700	0.01	7.43		AVRG
2-Methylnaphthalene-d10	0.3550000	0.3362300	0.3362300	0.01	-5.29		AVRG
Fluorene-d10	0.9520000	0.9737000	0.9737000	0.01	2.28		AVRG
Pyrene-d10	1.3822000	1.2500000	0.9850500	0.01	10.58		LINR

FORM VII PEST

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEYWEST SDG No.: CTO318-4

Lab File ID: UD544 DFTPP Injection Date: 12/03/03

Instrument ID: GCMS-U DFTPP Injection Time: 0859

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	32.1
68	Less than 2.0% of mass 69	0.5 (0.9)1
69	Less than 100.0% of mass 198	54.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	53.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	21.0
365	1.0 - 100.0% of mass 198	2.9
441	0.0 - 100.0% of mass 443	12.4 (84.7)2
442	40.0 - 100.0% of mass 198	75.4
443	17.0 - 23.0% of mass 442	14.7 (19.5)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.25U1203	U5529	12/03/03	0930
02		SSTD3.00U1203	U5530	12/03/03	1013
03		SSTD2.50U1203	U5531	12/03/03	1057
04		SSTD2.00U1203	U5532	12/03/03	1140
05		SSTD0.625U1203	U5533	12/03/03	1224
06		SSTD0.125U1203	U5535	12/03/03	1358
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEYWEST SDG No.: CTO318-4

Lab File ID: UD545 DFTPP Injection Date: 12/03/03

Instrument ID: GCMS-U DFTPP Injection Time: 1456

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	32.7
68	Less than 2.0% of mass 69	0.2 (0.4)1
69	Less than 100.0% of mass 198	54.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	52.2
197	Less than 1.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	21.5
365	1.0 - 100.0% of mass 198	2.7
441	0.0 - 100.0% of mass 443	12.3 (86.6)2
442	40.0 - 100.0% of mass 198	77.6
443	17.0 - 23.0% of mass 442	14.2 (18.3)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.25U1203	U5536	12/03/03	1517
02	WG4661-BLANK	WG4661-1RA	U5537	12/03/03	1612
03	G01-GS-38-1103	WT2911-5DL	U5538	12/03/03	1655
04	G01-GS-40-1103	WT2911-6DL	U5539	12/03/03	1740
05	G01-GS-43-1103	WT2911-7DL	U5540	12/03/03	1823
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEYWEST SDG No.: CTO318-4

Instrument ID: GCMS-U Calibration Date: 12/03/03 Time: 1517

Lab File ID: U5536 Init. Calib. Date(s): 12/03/03 12/03/03

Init. Calib. Times: 0930 1358

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.2500 or AMOUNT	CCAL RRF1.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Naphthalene	0.8180000	0.8705000	0.8705000	0.01	6.42		AVRG
2-Methylnaphthalene	0.4850000	0.5148700	0.5148700	0.01	6.16		AVRG
Acenaphthylene	1.4810000	1.5146000	1.5146000	0.01	2.27		AVRG
Acenaphthene	1.0720000	1.1187000	1.1187000	0.01	4.36	20.00	AVRG
Fluorene	1.1170000	1.1949000	1.1949000	0.01	6.97		AVRG
Phenanthrene	0.7850000	0.8057100	0.8057100	0.01	2.64		AVRG
Anthracene	0.8540000	0.8494200	0.8494200	0.01	-0.54		AVRG
Fluoranthene	0.7220000	0.7064900	0.7064900	0.01	-2.15	20.00	AVRG
Pyrene	1.6990000	2.0762000	2.0762000	0.01	22.20		AVRG
Benzo(a)anthracene	3.2370000	3.5762000	3.5762000	0.01	10.48		AVRG
Chrysene	4.6610000	5.4544000	5.4544000	0.01	17.02		AVRG
Benzo(b)fluoranthene	0.6700000	0.6936300	0.6936300	0.01	3.53		AVRG
Benzo(k)fluoranthene	1.1350000	1.1564000	1.1564000	0.01	1.88		AVRG
Benzo(a)pyrene	0.6400000	0.6187300	0.6187300	0.01	-3.32	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.6340000	0.5021900	0.5021900	0.01	-20.79		AVRG
Dibenzo(a,h)anthracene	0.4420000	0.3020100	0.3020100	0.01	-31.67		AVRG
Benzo(g,h,i)perylene	1.3028000	1.2500000	0.6682700	0.01	4.22		2RDR
1-Methylnaphthalene	0.5000000	0.5379800	0.5379800	0.01	7.60		AVRG
2-Methylnaphthalene-d10	0.2940000	0.2988100	0.2988100	0.01	1.64		AVRG
Fluorene-d10	1.0660000	0.9501700	0.9501700	0.01	-10.87		AVRG
Pyrene-d10	1.0910000	1.3820000	1.3820000	0.01	26.67		AVRG

FORM VII PEST

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEYWEST
PO No:
Sample Date:
Received Date:
Extraction Date: 11/19/03
Analysis Date: 12/03/03
Report Date: 12/04/2003
Matrix: WATER
% Solids: NA

Lab ID: WG4661-1RA
Client ID: WG4661-Blank
SDG: CTO318-4
Extracted by: LS
Extraction Method: SW846 3520
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG4661
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.080
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.090
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	J	0.14	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	J	0.17	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	J	0.16	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.080
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
7297-45-2	2-Methylnaphthalene-d10		99%				
81103-79-9	Fluorene-d10		67%				
1718-52-1	Pyrene-d10		150%				

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **C. BRYAN** **DATE:** **JANUARY 6, 2004**

FROM: **BERNARD F SPADA III** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOC/PAH**
CTO 318, NAS KEY WEST
SDG 3185

SAMPLES: 7/Aqueous

G01-GS-47-1103	G01-GS-49-1103	G01-GS-50-1103
G01-GS-51-1103	G01-GS-52-1103	KW-DUP-04-1103
KWTB-111703		

OVERVIEW

The sample set for CTO 318, NAS Key West, SDG 3185 consists of five (5) environmental aqueous samples, one (1) trip blank, and one (1) field duplicate. All samples were analyzed for priority pollutant VOCs, benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl-tert-butyl ether (MTBE). The field duplicate pair included in this SDG is KW-DUP-04-1103 and G01-GS-47-1103.

The samples were collected by Tetra Tech NUS on November 17, 2003 and analyzed by Katahdin Analytical Services. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Method 8260B analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
• Initial and continuing calibration
• Laboratory method and field quality control blank results
* • Surrogate recoveries
* • Field duplicate precision
* • Matrix Spike recoveries
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

The text of this report is formulated to address only gross non-compliances resulting in the rejection of data and the elimination of false positives.

Volatile

The continuing calibration performed on November 20 at 21:31 exceeded the 25% difference quality control criteria for chloromethane and bromomethane. No qualifications were made on this basis because results for the aforementioned compounds were non-detected.

The following compounds were detected in the method blank:

Compound	Maximum Concentration	Blank Action Level
Chloroform	0.3 µg/L	1.5 µg/L
o-Xylene	0.2 µg/L	1.0 µg/L
m,p-Xylenes	0.3 µg/L	1.5 µg/L
total-Xylenes	0.5 µg/L	2.5 µg/L

Sample aliquot and dilution factors were taken into consideration when applying the blank action levels. The positive results for the aforementioned compounds below the action level were qualified as non-detected (U). Please note that the trip blank was not qualified for method blank contamination.

The blank spike (WG4717-LCS) exceeded the percent recovery quality control criteria for 2-butanone and acetone. No qualifications were made on this basis because the results for the aforementioned compounds were non-detected.

The percent recovery of bromomethane was below the quality control criteria in the MS/MSD of sample G01-GS-51-1103. No qualifications were made on this basis because the blank spike was complaint for bromomethane.

Additional Comments

Positive results below the reporting limit were qualified as estimated (J) due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Qualification was made based on method blank contamination.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines. The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Bernard F. Spada III
Chemist/Data Validator

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 4779

SDG: 3185 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-47-1103	nsample	G01-GS-49-1103	nsample	G01-GS-50-1103
samp_date	11/17/2003	samp_date	11/17/2003	samp_date	11/17/2003
lab_id	WT2912-1	lab_id	WT2912-3	lab_id	WT2912-4
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	A
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3185 MEDIA: WATER DATA FRACTION: OV

nsample	G01-GS-51-1103	nsample	G01-GS-52-1103	nsample	KW-DUP-04-1103
samp_date	11/17/2003	samp_date	11/17/2003	samp_date	11/17/2003
lab_id	WT2912-5	lab_id	WT2912-6	lab_id	WT2912-2
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	G01-GS-47-1103

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/02/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2912-1
Client ID: G01-GS-47-1103
SDG: CTO318-5
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4717
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	JB	0.2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		99%				
17060-07-0	1,2-Dichloroethane-D4		100%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/02/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2912-3
Client ID: G01-GS-49-1103
SDG: CTO318-5
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4717
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		98%				
17060-07-0	1,2-Dichloroethane-D4		100%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/02/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2912-4
Client ID: G01-GS-50-1103
SDG: CTO318-5
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4717
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		102%				
17060-07-0	1,2-Dichloroethane-D4		102%				
2037-26-5	Toluene-D8		98%				
460-00-4	P-Bromofluorobenzene		97%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/02/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2912-5
Client ID: G01-GS-51-1103
SDG: CTO318-5
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4717
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		99%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		97%				
460-00-4	P-Bromofluorobenzene		96%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/02/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2912-6
Client ID: G01-GS-52-1103
SDG: CTO318-5
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4717
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		100%				
17060-07-0	1,2-Dichloroethane-D4		104%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		96%				

Sample Data Summary A0000008

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/02/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2912-2
Client ID: KW-DUP-04-1103
SDG: CTO318-5
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4717
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		99%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		95%				

Sample Data Summary A0000004

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/06/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/02/2003
Matrix: WATER
% Solids: NA

Lab ID: WT2912-7
Client ID: KW-TB-111703
SDG: CTO318-5
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4717
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.3
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.1
74-83-9	Bromomethane	U	2	1.0	2	2	0.9
75-00-3	Chloroethane	U	2	1.0	2	2	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	U	1	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.3
	m+p-Xylenes	U	2	1.0	2	2	0.2
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		100%				
17060-07-0	1,2-Dichloroethane-D4		100%				
2037-26-5	Toluene-D8		97%				
460-00-4	P-Bromofluorobenzene		94%				

APPENDIX C

SUPPORT DOCUMENTATION

FIELD DUPLICATE PRECISION

ANALYTE	KW-DUP-04-1103	G01-GS-47-1103	RPD	DIFFERENCE
No compounds detected.			#DIV/0!	0

HOLD TIME

SDG 3185

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	KW-TB-111703	WT2912-7	NM	11/6/2003	11/21/2003	11/21/2003	15	0	15
OV	%	KW-DUP-04-1103	WT2912-2	NM	11/17/2003	11/21/2003	11/21/2003	4	0	4
OV	%	G01-GS-52-1103	WT2912-6	NM	11/17/2003	11/21/2003	11/21/2003	4	0	4
OV	%	G01-GS-51-1103	WT2912-5	NM	11/17/2003	11/21/2003	11/21/2003	4	0	4
OV	%	G01-GS-50-1103	WT2912-4	NM	11/17/2003	11/21/2003	11/21/2003	4	0	4
OV	%	G01-GS-49-1103	WT2912-3	NM	11/17/2003	11/21/2003	11/21/2003	4	0	4
OV	%	G01-GS-47-1103	WT2912-1	NM	11/17/2003	11/21/2003	11/21/2003	4	0	4
OV	UG/L	KW-TB-111703	WT2912-7	NM	11/6/2003	11/21/2003	11/21/2003	15	0	15
OV	UG/L	KW-DUP-04-1103	WT2912-2	NM	11/17/2003	11/21/2003	11/21/2003	4	0	4
OV	UG/L	G01-GS-52-1103	WT2912-6	NM	11/17/2003	11/21/2003	11/21/2003	4	0	4
OV	UG/L	G01-GS-51-1103	WT2912-5	NM	11/17/2003	11/21/2003	11/21/2003	4	0	4
OV	UG/L	G01-GS-50-1103	WT2912-4	NM	11/17/2003	11/21/2003	11/21/2003	4	0	4
OV	UG/L	G01-GS-49-1103	WT2912-3	NM	11/17/2003	11/21/2003	11/21/2003	4	0	4
OV	UG/L	G01-GS-47-1103	WT2912-1	NM	11/17/2003	11/21/2003	11/21/2003	4	0	4

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NAS KEY WEST; SDG: CTO318-5
WT2912
TASK ORDER MANAGER: CHARLES BRYAN

Sample Receipt

The following samples were received on November 18, 2003 and were logged in under Katahdin Analytical Services work order number WT2912 for a hardcopy due date of December 2, 2003.

KATAHDIN Sample No.	TTNUS Sample Identification
WT2912-1	G01-GS-47-1103
WT2912-2	KW-DUP-04-1103
WT2912-3	G01-GS-49-1103
WT2912-4	G01-GS-50-1103
WT2912-5	G01-GS-51-1103
WT2912-6	G01-GS-52-1103
WT2912-7	KW-TB-111703

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Organics Laboratory

The samples of SDG CTO318-5 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, Office of Solid Waste and Emergency Response, U.S. EPA, for the specific methods listed below or on the Report of Analysis. Sample WT2912-5 was analyzed as the matrix spike (MS) and matrix spike duplicate (MSD), as per client request. Some manual integrations may have been performed due to split peaks and/or corrected baselines. All have been flagged with a "M" (software-generated) on the pertinent quantitation report.

8260 Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The acceptance limits for the MS/MSD are for a

short list of the spiked compounds. Katahdin standard operating procedure is not to take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory contaminants acetone and methylene chloride) in the LCS are outside of the QC limits.

Some method blanks may have detected one or more target analytes above the MDL. Any of these analytes that were also detected in any of the associated samples were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

There were no other protocol deviations or observations noted by the organics laboratory staff.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

María Crouch
12.03.03
María Crouch
Quality Assurance Officer

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 3879 | PAGE 2 OF 3

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 318	NAS Key West			
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
Emily McRee				
		CARRIER/WAYBILL NUMBER 8425 8908 7800		CITY, STATE

STANDARD TAT ☐
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☒ 14 day

DATE (YEAR 2003)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED		TYPE OF ANALYSIS: PPL VOHs + BTEX, MTBE	TYPE OF ANALYSIS: PAH	COMMENTS
									G	G	1	—			
11/16	1010	G01-GS-35-1103	SB-35	—		GW	G	3	3						
11/16	1040	G01-GS-36-1103	SB-36	—		GW	G	5	3	2					
11/16	1120	G01-GS-37-1103	SB-37	—		GW	G	3	3						
11/16	1220	G01-GS-38-1103	SB-38	—		GW	G	5	3	2					
11/16	1300	G01-GS-39-1103	SB-39	—		GW	G	3	3						
11/16	1345	G01-GS-40-1103	SB-40	—		GW	G	5	3	2					
11/16	1420	G01-GS-41-1103	SB-41	—		GW	G	3	3						
11/16	1515	G01-GS-42-1103	SB-42	—		GW	G	3	3						
11/17	0800	G01-GS-43-1103	SB-43	—		GW	G	5	3	2					
11/17	0900	G01-GS-44-1103	SB-44	—		GW	G	3	3						
11/17	0940	G01-GS-45-1103	SB-45	—		GW	G	3	3						
11/17	1020	G01-GS-46-1103	SB-46	—		GW	G	5	3	2					
11/17	1050	G01-GS-47-1103	SB-47	—		GW	G	3	3						

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY			1. RECEIVED BY	11-18-03	0905
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TINUS-001

200000

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 3880 | PAGE 3 OF 3

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 318	NAS KW			
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
Emily McKee		CARRIER/WAYBILL NUMBER 84 25 8908 7800		CITY, STATE

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☒ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G, G, G, G

PRESERVATIVE USED: —, —, 3 DI 1 MeOH, —

TYPE OF ANALYSIS: DPL VOHs + BTEX, MTBE; PAH; BTEX, MTBE; TRPH

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	DPL VOHs + BTEX, MTBE	PAH	BTEX, MTBE	TRPH					COMMENTS
11/17	0000	KW-DUP-04-1103	—	—	—	GW	G	3	3								
11/17	1120	G01-GS-48-1103	SB-48	—	—	GW	G	5	3	2							
11/17	1200	G01-GS-49-1103	SB-49	—	—	GW	G	3	3								
11/17	1215	G01-GS-50-1103	SB-50	—	—	GW	G	3	3								
11/17	1250	G01-GS-51-1103	SB-51	—	—	GW	G	6	6								MS/MSD
11/17	1340	G01-GS-52-1103	SB-52	—	—	GW	G	3	3								
11/17	1345	G01-SB-19-1103H	SB-19	0	2	SO	G	6		1	4	1					
11/17	0000	KW-DUP-05-1103	—	—	—	SO	G	6		1	4	1					
11/6	1550	KW-TB-111703	—	—	—	QC	G	2	2								

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY [signature]	DATE 11-18-03	TIME 0405
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TINUS 001

0000009

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-5

Lab File ID: MB484 BFB Injection Date: 11/13/03

Instrument ID: GCMS-M BFB Injection Time: 1618

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.8
75	30.0 - 60.0% of mass 95	42.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	74.9
175	4.0 - 9.0% of mass 174	5.6 (7.5)1
176	95.0 - 101.0% of mass 174	73.3 (98.0)1
177	5.0 - 9.0% of mass 176	5.4 (7.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD005M13D	M1118	11/13/03	1731
02		VSTD001M13F	M1120	11/13/03	1836
03		VSTD020M13B	M1121	11/13/03	1909
04		VSTD200M13B	M1122	11/13/03	1941
05		VSTD100M13B	M1123	11/13/03	2014
06		VSTD050M13D	M1125	11/13/03	2119
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-5

Lab File ID: MB492 BFB Injection Date: 11/20/03

Instrument ID: GCMS-M BFB Injection Time: 2021

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.1
75	30.0 - 60.0% of mass 95	43.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	58.4
175	4.0 - 9.0% of mass 174	4.5 (7.7)1
176	95.0 - 101.0% of mass 174	56.6 (96.9)1
177	5.0 - 9.0% of mass 176	4.2 (7.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050M20C	M1242	11/20/03	2131
02	WG4717-LCS	WG4717-1	M1244	11/20/03	2243
03	WG4717-BLANK	WG4717-2	M1246	11/20/03	2349
04	G01-GS-47-1103	WT2912-1	M1247	11/21/03	0022
05	KW-DUP-04-1103	WT2912-2	M1248	11/21/03	0055
06	G01-GS-49-1103	WT2912-3	M1249	11/21/03	0127
07	G01-GS-50-1103	WT2912-4	M1250	11/21/03	0200
08	G01-GS-51-1103	WT2912-5	M1251	11/21/03	0233
09	G01-GS-52-1103	WT2912-6	M1252	11/21/03	0306
10	KW-TB-111703	WT2912-7	M1253	11/21/03	0339
11	G01-GS-51-1103MS	WG4717-3	M1257	11/21/03	0551
12	G01-GS-51-1103MSD	WG4717-4	M1258	11/21/03	0623
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-5

Instrument ID: GCMS-M Calibration Date: 11/20/03 Time: 2131

Lab File ID: M1242 Init. Calib. Date(s): 11/13/03 11/~~14~~13/03 KMB 12/2/03

Init. Calib. Times: 1731 0004

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Chloromethane	0.6630000	0.3769400	0.3769400	0.1	-43.15		AVRG	
Vinyl chloride	0.5180000	0.5579100	0.5579100	0.01	7.70	20.00	AVRG	
Bromomethane	24.466000	50.000000	0.1367100	0.01	-51.07		LINR	
Chloroethane	0.3110000	0.3193800	0.3193800	0.01	2.69		AVRG	
1,1-Dichloroethene	0.3760000	0.4245500	0.4245500	0.1	12.91	20.00	AVRG	
Methylene Chloride	59.054000	50.000000	0.6604200	0.01	18.11		LINR	
trans-1,2-Dichloroethene	0.5060000	0.6199200	0.6199200	0.01	22.51		AVRG	
1,1-Dichloroethane	0.9260000	1.1219000	1.1219000	0.1	21.16		AVRG	
cis-1,2-Dichloroethene	0.5620000	0.6712800	0.6712800	0.01	19.44		AVRG	
Chloroform	0.9510000	1.0361000	1.0361000	0.01	8.95	20.00	AVRG	
Carbon Tetrachloride	0.3390000	0.3922000	0.3922000	0.01	15.69		AVRG	
1,1,1-Trichloroethane	0.7100000	0.8385100	0.8385100	0.01	18.10		AVRG	
Benzene	1.1740000	1.3803000	1.3803000	0.01	17.57		AVRG	
1,2-Dichloroethane	0.4000000	0.4516500	0.4516500	0.01	12.91		AVRG	
Trichloroethene	0.3290000	0.3672800	0.3672800	0.01	11.64		AVRG	
Methyl tert-butyl ether	1.3720000	1.5085000	1.5085000	0.01	9.95		AVRG	
1,2-Dichloropropane	0.3230000	0.3622600	0.3622600	0.01	12.16	20.00	AVRG	
Bromodichloromethane	0.3960000	0.4541700	0.4541700	0.01	14.69		AVRG	
cis-1,3-dichloropropene	0.4910000	0.5672600	0.5672600	0.01	15.53		AVRG	
Toluene	0.7200000	0.8187800	0.8187800	0.01	13.72	20.00	AVRG	
Tetrachloroethene	0.2840000	0.2868400	0.2868400	0.01	1.00		AVRG	
trans-1,3-Dichloropropene	0.4050000	0.4687700	0.4687700	0.01	15.75		AVRG	
1,1,2-Trichloroethane	0.2100000	0.2452800	0.2452800	0.01	16.80		AVRG	
Dibromochloromethane	0.3760000	0.4176800	0.4176800	0.01	11.08		AVRG	
Chlorobenzene	0.9850000	1.1110000	1.1110000	0.3	12.79		AVRG	
Ethylbenzene	1.6130000	1.8314000	1.8314000	0.01	13.54	20.00	AVRG	
Bromoform	52.033000	50.000000	0.2463400	0.1	4.07		LINR	
1,1,2,2-Tetrachloroethane	0.7540000	0.9052600	0.9052600	0.3	20.06		AVRG	
Xylenes (total)	0.0000000	0.6992600	0.6992600	0.01	0.00		AVRG	<-

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297/318 NAS KEY WEST SDG No.: CTO318-5

Instrument ID: GCMS-M Calibration Date: 11/20/03 Time: 2131

Lab File ID: M1242 Init. Calib. Date(s): 11/13/03 11/~~14~~ 13 KAB 1-20-03/03

Init. Calib. Times: 1731 0004

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
m+p-Xylenes	0.6160000	0.7109200	0.7109200	0.01	15.41		AVRG
o-Xylene	0.6080000	0.6759600	0.6759600	0.01	11.18		AVRG
2-Chloroethylvinylether	55.913000	50.000000	0.1702200	0.01	11.83		LINR
Dibromofluoromethane	0.5770000	0.5563500	0.5563500	0.01	-3.58		AVRG
1,2-Dichloroethane-D4	0.5830000	0.5466600	0.5466600	0.01	-6.23		AVRG
Toluene-D8	1.0720000	1.0132000	1.0132000	0.01	-5.48		AVRG
P-Bromofluorobenzene	0.4080000	0.3790100	0.3790100	0.01	-7.10		AVRG

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/20/03
Report Date: 12/02/2003
Matrix: WATER
% Solids: NA

Lab ID: WG4717-2
Client ID: WG4717-BLANK
SDG: CTO318-5
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4717
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	1	1.0	1	1	0.3
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.1
74-83-9	Bromomethane	U	1	1.0	1	1	0.9
75-00-3	Chloroethane	U	1	1.0	1	1	0.3
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.3
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.7
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.5
67-66-3	Chloroform	J	0.3	1.0	1	1	0.2
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.3
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.7
71-43-2	Benzene	U	1	1.0	1	1	0.1
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.3
79-01-6	Trichloroethene	U	1	1.0	1	1	0.6
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.3
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.2
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.2
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.4
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.4
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.3
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.3
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.2
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.4
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.4
1330-20-7	Xylenes (total)	J	0.5	1.0	3	3	0.3
	m+p-Xylenes	J	0.3	1.0	2	2	0.2
95-47-6	o-Xylene	J	0.2	1.0	1	1	0.2
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.5
1868-53-7	Dibromofluoromethane		97%				
17060-07-0	1,2-Dichloroethane-D4		98%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		92%				

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/20/03
Report Date: 12/02/2003
Matrix: WATER

Lab ID: WG4717-1
Client ID: WG4717-LCS
SDG: CTO318-5
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4717
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	62		125	4-217
Chloromethane	50	NA	26		51	40-163
Vinyl chloride	50	NA	58		116	55-151
Bromomethane	50	NA	24		48	24-217
Chloroethane	50	NA	53		105	69-134
Trichlorofluoromethane	50	NA	52		105	71-147
Diethyl Ether	50	NA	52		105	67-135
Tertiary-butyl alcohol	250	NA	262		105	58-146
1,1-Dichloroethene	50	NA	67		135	78-136
Carbon Disulfide	50	NA	52		103	70-136
Freon-113	50	NA	54		108	60-140
Iodomethane	50	NA	30	*	59	60-140
Acrolein	250	NA	309		124	0-199
Methylene Chloride	50	NA	55		110	52-115
Acetone	50	NA	82	*	163	0-158
Isobutyl Alcohol	1000	NA	674		67	60-140
trans-1,2-Dichloroethene	50	NA	58		116	84-131
Allyl Chloride	50	NA	54		108	60-140
Methyl tert-butyl ether	100	NA	103		103	62-130
Acetonitrile	500	NA	570		114	53-141
Di-isopropyl ether	50	NA	55		110	82-130
Chloroprene	50	NA	54		109	60-140
Methacrylonitrile	500	NA	571		114	60-140
Propionitrile	500	NA	729	*	146	60-140
1,1-Dichloroethane	50	NA	57		115	81-134
Acrylonitrile	250	NA	305		122	29-172
Ethyl tertiary-butyl ether	50	NA	53		107	85-124
Vinyl Acetate	50	NA	41		82	68-174
cis-1,2-Dichloroethene	50	NA	54		108	84-123
1,2-Dichloroethylene (total)	100	NA	112		112	84-131
Methyl Methacrylate	50	NA	49		99	60-140
2,2-Dichloropropane	50	NA	56		112	69-150
Bromochloromethane	50	NA	46		91	77-146
Chloroform	50	NA	51		102	80-130
Carbon Tetrachloride	50	NA	54		109	74-137
Tetrahydrofuran	50	NA	66		133	32-140
1,1,1-Trichloroethane	50	NA	55		111	76-138
1,1-Dichloropropene	50	NA	54		107	82-120
2-Butanone	50	NA	98	*	197	49-154
Benzene	50	NA	54		107	88-120
Ethyl Methacrylate	50	NA	53		107	60-140
Methyl Acrylate	50	NA	31		63	60-140
Tertiary-amyl methyl ether	50	NA	53		105	85-125
1,2-Dichloroethane	50	NA	51		102	78-138
Trichloroethene	50	NA	51		103	80-125

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 11/20/03
Report Date: 12/02/2003
Matrix: WATER

Lab ID: WG4717-1
Client ID: WG4717-LCS
SDG: CTO318-5
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4717
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dibromomethane	50	NA	53	107	88-130
1,2-Dichloropropane	50	NA	52	104	80-122
Bromodichloromethane	50	NA	48	96	83-133
cis-1,3-dichloropropene	50	NA	50	99	81-138
2-Chloroethylvinylether	50	NA	33	67	50-211
Toluene	50	NA	52	104	88-121
4-methyl-2-pentanone	50	NA	52	104	72-140
Tetrachloroethene	50	NA	53	106	77-129
trans-1,3-Dichloropropene	50	NA	51	101	81-149
1,1,2-Trichloroethane	50	NA	51	102	82-126
Dibromochloromethane	50	NA	50	100	80-133
1,3-Dichloropropane	50	NA	51	102	86-125
1,2-Dibromoethane	50	NA	51	102	88-127
2-Hexanone	50	NA	67	134	45-146
Chlorobenzene	50	NA	51	103	84-123
Ethylbenzene	50	NA	50	100	84-134
1,1,1,2-Tetrachloroethane	50	NA	50	100	83-130
Xylenes (total)	150	NA	154	103	88-123
m+p-Xylenes	100	NA	103	103	88-122
o-Xylene	50	NA	51	102	90-123
Styrene	50	NA	49	98	87-131
Bromoform	50	NA	46	91	77-138
Isopropylbenzene	50	NA	53	107	88-125
cis-1,4-Dichloro-2-Butene	50	NA	45	90	60-140
trans-1,4-Dichloro-2-Butene	50	NA	45	90	60-140
Bromobenzene	50	NA	50	99	84-133
N-Propylbenzene	50	NA	51	102	88-124
2-bromo-1-chloropropane		NA			60-140
1,1,2,2-Tetrachloroethane	50	NA	52	103	81-131
1,3,5-Trimethylbenzene	50	NA	50	101	89-124
2-Chlorotoluene	50	NA	51	103	84-128
1,2,3-Trichloropropane	50	NA	50	101	76-132
4-Chlorotoluene	50	NA	51	101	86-132
tert-Butylbenzene	50	NA	49	98	82-131
Pentachloroethane	50	NA	50	100	60-140
1,2,4-Trimethylbenzene	50	NA	48	96	88-121
P-Isopropyltoluene	50	NA	49	97	86-122
1,3-Dichlorobenzene	50	NA	50	101	86-124
1,4-Dichlorobenzene	50	NA	50	100	80-127
N-Butylbenzene	50	NA	48	97	81-133
sec-Butylbenzene	50	NA	49	98	85-122
1,2-Dichlorobenzene	50	NA	50	99	86-126
1,2-Dibromo-3-Chloropropane	50	NA	47	93	61-136
1,3,5-Trichlorobenzene	50	NA	45	91	67-128
Hexachlorobutadiene	50	NA	39	77	52-129

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client:
Project: CTO297/318 NAS KEY WEST
PO No:
Sample Date: 11/17/03
Received Date: 11/18/03
Extraction Date:
Analysis Date: 11/21/03
Report Date: 12/02/2003
Matrix: WATER

Lab ID: WG4717-3 & WG4717-4
Client ID: G01-GS-51-1103MS & G01-GS-51-1103MSD
SDG: CTO318-5
Extracted by:
Extraction Method: SW846 5030
Analyst: JSS
Analysis Method: SW846 8260B
Lab Prep Batch: WG4717
Units: ug/l

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Chloromethane	50	50	0.00	30	23	61	* 46	* 27	20	60-140
Vinyl chloride	50	50	0.00	67	62	134	124	8	20	60-140
Bromomethane	50	50	0.00	12	11	* 24	* 21	12	20	60-140
Chloroethane	50	50	0.00	56	55	113	109	3	20	60-140
1,1-Dichloroethene	50	50	0.00	62	75	123	150	19	20	44-167
Methylene Chloride	50	50	0.00	59	58	118	116	2	20	60-140
trans-1,2-Dichloroethene	50	50	0.00	63	63	126	126	0.2	20	60-140
1,1-Dichloroethane	50	50	0.00	63	62	126	124	1.0	20	60-140
cis-1,2-Dichloroethene	50	50	0.00	58	58	115	115	0.2	20	60-140
Chloroform	50	50	0.00	55	55	110	111	0.4	20	60-140
Carbon Tetrachloride	50	50	0.00	62	62	123	123	0.2	20	60-140
1,1,1-Trichloroethane	50	50	0.00	62	61	124	122	2	20	60-140
Benzene	50	50	0.00	60	60	119	120	0.8	20	64-140
1,2-Dichloroethane	50	50	0.00	56	56	112	112	0.2	20	60-140
Trichloroethene	50	50	0.00	56	58	113	116	3	20	62-134
Methyl tert-butyl ether	100	100	0.00	114	104	114	104	9	20	60-140
1,2-Dichloropropane	50	50	0.00	57	58	113	116	2	20	60-140
Bromodichloromethane	50	50	0.00	54	54	107	107	0.0	20	60-140
cis-1,3-dichloropropene	50	50	0.00	46	45	92	89	3	20	60-140
Toluene	50	50	0.00	58	58	116	115	0.9	20	65-142
Tetrachloroethene	50	50	0.00	50	52	101	104	3	20	60-140
trans-1,3-Dichloropropene	50	50	0.00	51	48	103	97	6	20	60-140
1,1,2-Trichloroethane	50	50	0.00	57	54	114	109	5	20	60-140
Dibromochloromethane	50	50	0.00	53	53	107	105	1	20	60-140
Chlorobenzene	50	50	0.00	55	56	110	112	2	20	68-140
Ethylbenzene	50	50	0.00	54	56	108	111	3	20	60-140
Bromoform	50	50	0.00	49	46	99	92	8	20	60-140
1,1,2,2-Tetrachloroethane	50	50	0.00	60	54	120	107	11	20	60-140
Xylenes (total)	150	150	0.00	164	170	109	113	4	20	60-140
m+p-Xylenes	100	100	0.00	111	114	111	114	3	20	60-140
o-Xylene	50	50	0.00	53	56	106	113	6	20	60-140
2-Chloroethylvinylether	50	50	0.00	36	31	71	61	15	20	60-140

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **C. BRYAN** **DATE:** **APRIL 2, 2004**

FROM: **SETH C. STAFFEN** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOA / PAH / TPH / OVG**
CTO 318 NAS KEY WEST
SDG: 2974

SAMPLES: 19/AQUEOUS

G01-MW-01-0204	G01-MW-01A-0204	G01-MW-02-0204
G01-MW-03-0204	G01-MW-04-0204	G01-MW-05-0204
G01-MW-06-0204	G01-MW-07-0204	G01-MW-08-0204
G01-MW-09-0204	G01-MW-10-0204	G01-MW-11-0204
G01-MW-12-0204	KW-DUP-02-0204	KWTB-020404
KWTB-020604	TB-020504	B01-MW-010204
B01-MW-03-0204		

OVERVIEW

The sample set for CTO 318, NAS Key West, SDG 2974 consists of sixteen (16) aqueous environmental samples and three (3) trip blanks. All samples except for the trip blanks, B01-MW-01-0204, and B01-MW03-0204 were analyzed for volatile organic compounds,1,2-dibromoethane, polynuclear aromatic hydrocarbons (PAHs), total petroleum hydrocarbons (TPH), and organic volatile gas - methane. B01-MW-01-0204 and B01-MW03-0204 were analyzed for PAHs only. The trip blanks (KWTB-020404, KWTB-020604, TB-020504) were analyzed for volatile organic compounds only excluding 1,2-dibromoethane. One field duplicate pair was included in this SDG: G01-MW-11-0204 / KW-DUP-02-0204.

The samples were collected by Tetra Tech NUS on February 4th-6th, 2004 and analyzed by Katahdin Analytical Services and Air Toxics Ltd. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8260B, 8270C-SIM, Florida PRO, EPA 504.1, and RSK 175 analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
• Initial and continuing calibration/recoveries
• Laboratory method blank results
* • Field duplicate precision
• Detection limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

The text of this report is formulated to address only gross non-compliances resulting in the rejection of data and the elimination of false positives.

VOLATILE

The following compounds were detected in the laboratory method blank at the maximum concentrations indicated below:

Compound	Concentration	Action Level
Toluene	0.2 ug/L	1.0 ug/L
Methylene chloride	5.0 ug/L	50 ug/L
Chloroform	0.9 ug/L	4.5 ug/L

Blank Actions

- Value < Reporting Limit (RL); report RL followed by a U.
- Value > RL and < action level; report value followed by a U.
- Value > RL and > action level; report value unqualified.

An action level of 10X (methylene chloride) and 5X (other contaminants) the maximum contaminant concentrations were established to evaluate laboratory contamination. Dilution factors and sample aliquots were taken into consideration during the application of all action levels. Positive results below the action level were qualified as nondetected, U.

The continuing calibration on 2/10/04 at 0741 contained a percent difference (%D) that exceeded the 25% quality control limit for bromomethane on instrument GCMS-S. No qualification action was taken because the noncompliance was not a gross exceedance (< 90%) and the reported results were nondetects.

The continuing calibration on 2/12/04 at 0758 contained a percent difference (%D) that exceeded the 25% quality control limit for bromomethane on instrument GCMS-S. No qualification action was taken because the noncompliance was not a gross exceedance (< 90%) and the reported results were nondetects.

The continuing calibration on 2/11/04 at 0836 contained a relative response factor (RRF) that fell below the 0.05 quality control limit for acetone on instrument GCMS-Z. The nondetected result was qualified as rejected, UR, in sample G01-MW-06-0204.

The continuing calibration on 2/11/04 at 0836 contained a percent difference (%D) that exceeded the 25% quality control limit for MTBE on instrument GCMS-Z. No qualification action was taken because the noncompliance was not a gross exceedance (< 90%) and the reported results were nondetects.

The continuing calibration on 2/13/04 at 0827 contained a relative response factor (RRF) that fell below the 0.05 quality control limit for acetone on instrument GCMS-Z. The positive results were qualified as estimated, J, in samples G01-MW-07-0204, G01-MW-11-0204, and KW-DUP-02-0204.

The continuing calibration on 2/13/04 at 0827 contained a percent difference (%D) that exceeded the 25% quality control limit for MTBE on instrument GCMS-Z. No qualification action was taken because the noncompliance was not a gross exceedance (< 90%) and the reported results were nondetects.

The laboratory control sample %Rs (2/11/04, 2/12/04, and 2/13/04) fell below outside of quality control limits for several volatile organic compounds. No qualification action was taken based on the LCS %R noncompliances since only a limited review was conducted and the %Rs were > 10%.

EDB

The continuing calibration on 2/12/04 at 2237 contained a percent difference (%D) that exceeded the 15% quality control limit for 1,2-dibromoethane on both columns. No qualification action was taken because all samples were re-analyzed.

The continuing calibration on 2/17/04 at 1003 contained a %D that exceeded the 15% quality control limit for 1,2-dibromomethane on column SPB608. No qualification action was taken because the second column was compliant.

The surrogate recoveries of tetrachloro-m-xylene exceeded the upper quality control limits on one column but fell below the lower quality control limit on the second column for sample G01-MW-09-0204. No qualification action was taken because the reported result was nondetected. The surrogate recovery fell below the lower upper quality control limit for samples G01-MW-06-0204 on one column. No qualification action was taken because the other column was complaint

The surrogate recoveries of tetrachloro-m-xylene exceeded the upper quality control limits on both columns For blank (WG6134), LCS (WG6134-LCS), and LCSD (WG6134-LCSD). No qualification was taken based on surrogate recovery noncompliances.

The laboratory control sample and laboratory control sample duplicate (WG5985) were analyzed on 2/12/04 and contained %Rs that fell below the lower quality control limit for 1,2-dibromoethane (but > 10%). No qualification action was taken because all samples were re-analyzed.

PAH

The continuing calibration on 3/3/04 at 1054 contained a percent difference (%D) that exceeded the 25% quality control limit for indeno(1,2,3-cd)pyrene. No qualification action was taken because results were nondetects and the noncompliance was < 90%.

The continuing calibration on 3/4/04 at 1547 contained percent differences (%Ds) that exceeded the 25% quality control limit for benzo(g,h,i)perylene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. No qualification action was taken because the results were nondetects and the noncompliance was < 90%.

The continuing calibration on 3/5/04 at 0941 contained a percent difference (%D) that exceeded the 25% quality control limit for benzo(g,h,i)perylene. No qualification action was taken because the result was a nondetect and the noncompliance was < 90%.

The surrogate recovery of flourene-d10 fell below the lower quality control limit for sample G01-MW-06-0204. No qualification action was taken because the noncompliance was greater than 10% and the two other surrogates were compliant.

The surrogate recoveries were diluted out of samples G01-MW-010-0204, G01-MW-12-0204, G01-MW-08-0204, G01-MW-11-0204, and KW-DUP-02-0204 that were analyzed at a 25X, 25X, 100X, 20X, and 25X dilutions, respectively. No qualification action was taken because the samples were analyzed at dilutions.

Internal standards acenaphthene-d10, chrysene-d12, and perylene-d12 exceeded the upper quality control limit for sample G01-MW-06-0204. No qualification action was taken based on internal standard noncompliances.

The matrix spike %Rs fell below the lower quality control limits and the %RRD was exceeded for benzo(b)fluoroanthene and indeno(1,2,3-cd)pyrene. The matrix spike and matrix spike duplicate %Rs fell below the lower quality control limit and the %RPDs exceeded quality control limits for dibenzo(a,h)anthracene and benzo(g,h,i)perylene. No qualification action was taken on the unspiked sample B01-MW-03-0204 because the reported results were nondetects.

The linear calibration range of the instrument was exceeded by acenaphthene in sample G01-MW-05-05204. The result for the aforementioned compound was reported from the 20X dilution analysis. The remaining compounds were reported from the undiluted analysis.

The linear calibration range of the instrument was exceeded by 1-methylnaphthalene and phenanthene in sample G01-MW-06-0204. The results for the aforementioned compounds were reported from the 10X dilution analysis. The remaining compounds were reported from the undiluted analysis.

Samples G01-MW-07-0204 (4X), G01-MW-08-0204 (100X), G01-MW-09-0204 (5X), G01-MW-10-0204 (25X), G01-MW-11-0204 (20X), G01-MW-12-0204 (25X), and KW-DUP-02-0204 (25X) were reported at dilutions. The dilutions caused elevated reporting limits for nondetected results.

TPH

The surrogate recovery of o-terphenyl fell below the lower quality control limit for samples G01-MW-04-0204, G01-MW-05-0204, and G01-MW-06-0204. No qualification action was taken because the other surrogate was compliant.

Methane

All quality control parameters were met for this fraction.

The methane results for samples G01-MW-01-0204, G01-MW-01A-0204, G01-MW-02-0204, G01-MW-03-0204, and G01-MW-04-0204 were reported in ug/ml units on the Form Is. The methane results for the remaining samples were reported in units of ug/L on the Form Is. Therefore, methane results for samples G01-MW-01-0204, G01-MW-01A-0204, G01-MW-02-0204, G01-MW-03-0204, and G01-MW-04-0204 were converted to ug/L units. For consistency purposes, the methane results are reported in ug/L units on the EDD.

The laboratory case narrative noted, samples G01-MW-01A-0204, G01-MW-03-0204, G01-MW-04-0204, G01-MW-07-0204, and G01-MW-10-0204 contained a significant amount of headspace and bubbles > 5 mm. No qualification action was warranted.

Despite not being requested, the laboratory reported results for ethane and ethene on the Form Is and EDD. The data reviewer removed the ethane and ethene results from the EDD.

Additional Comments

Positive results reported below the reporting limit (RL) were qualified as estimated, J.

As listed on the chain of custody, organic (8260 and 8270) tentatively identified compounds (TICs) were reported for samples G01-MW-11-0204, G01-MW-07-0204, G01-MW-06-0204, and KW-DUP-02-0204.

The volatile compound list for samples G01-MW-11-0204, G01-MW-07-0204, G01-MW-06-0204, and KW-DUP-02-0204 reported an expanded list of volatile compounds. Additional volatile compounds were reported to provide more information.

The laboratory did not report down to the required reporting limits (RL) for the following compounds:

	Required RL (ug/L)	Laboratory RL (ug/L)
1,1,2,2-Tetrachloroethane	0.2	1.0
Bromodichloromethane	0.6	1.0
Chlorodibromomethane	0.4	1.0
Cis-1,3-dichloropropene	0.2	1.0
Trans-1,3-dichloropropene	0.2	1.0
Vinyl chloride	1.0	2.0

EXECUTIVE SUMMARY

Laboratory Performance Issues: Methylene chloride, toluene, hexachlorobutadiene, and chloroform were detected in the laboratory method blanks. Continuing calibration noncompliances (RRF, %Ds), surrogate and internal standard, and LCS %Rs noncompliances were noted.

Other Factors Affecting Data Quality: MS/MSD %R and %RPD noncompliances were noted.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October, 1999), and the NFESC guidelines IRCDQM (September, 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS

Seth C. Staffen
Environmental Scientist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: OV

nsample	G01-MW-01-0204
samp_date	2/4/2004
lab_id	WU0318-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

nsample	G01-MW-01-0204
samp_date	2/4/2004
lab_id	WU0318-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

nsample	G01-MW-01A-0204
samp_date	2/4/2004
lab_id	WU0318-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: OV

nsample	G01-MW-01A-0204
samp_date	2/4/2004
lab_id	WU0318-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

nsample	G01-MW-02-0204
samp_date	2/4/2004
lab_id	WU0318-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

nsample	G01-MW-02-0204
samp_date	2/4/2004
lab_id	WU0318-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: OV

nsample	G01-MW-03-0204
samp_date	2/4/2004
lab_id	WU0318-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

nsample	G01-MW-03-0204
samp_date	2/4/2004
lab_id	WU0318-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

nsample	G01-MW-04-0204
samp_date	2/4/2004
lab_id	WU0318-6
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: OV

nsample	G01-MW-04-0204
samp_date	2/4/2004
lab_id	WU0318-6
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

nsample	G01-MW-05-0204
samp_date	2/5/2004
lab_id	WU0334-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	0.1	J	P
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

nsample	G01-MW-05-0204
samp_date	2/5/2004
lab_id	WU0334-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: OV

nsample	G01-MW-06-0204
samp_date	2/5/2004
lab_id	WU0344-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,3-TRIMETHYLBENZENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRICHLOROBENZENE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	1	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	UR	C

nsample	G01-MW-06-0204
samp_date	2/5/2004
lab_id	WU0344-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	5		
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	2	U	
DIETHYL ETHER	1	U	
ETHYLBENZENE	3		
HEXACHLOROBUTADIENE	1	U	
ISOPROPYLBENZENE	0.6	J	P
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	UR	C
METHYLENE CHLORIDE	2	U	
NAPHTHALENE	3		
N-BUTYLBENZENE	0.5	J	P
N-PROPYLBENZENE	1		
O-XYLENE	0.2	J	P
SEC-BUTYLBENZENE	0.5	J	P
STYRENE	1	U	
TERT-BUTYLBENZENE	0.6	J	P
TETRACHLOROETHENE	1	U	

nsample	G01-MW-06-0204
samp_date	2/5/2004
lab_id	WU0344-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TETRAHYDROFURAN	5	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	2	U	
VINYL ACETATE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: OV

nsample	G01-MW-07-0204
samp_date	2/6/2004
lab_id	WU0347-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,3-TRIMETHYLBENZENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRICHLOROBENZENE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	1	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	2	J	ACP

nsample	G01-MW-07-0204
samp_date	2/6/2004
lab_id	WU0347-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	0.1	J	P
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	0.7	J	P
CARBON TETRACHLORIDE	1	U	P
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	0.4	J	P
CIS-1,3-DICHLOROPROPENE	1	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	2	U	
DIETHYL ETHER	1	U	
ETHYLBENZENE	0.4	J	P
HEXACHLOROBUTADIENE	1	U	
ISOPROPYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	UR	C
METHYLENE CHLORIDE	2	U	
NAPHTHALENE	2		
N-BUTYLBENZENE	0.4	J	P
N-PROPYLBENZENE	0.5	J	P
O-XYLENE	1	U	
SEC-BUTYLBENZENE	0.6	J	P
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	
TETRACHLOROETHENE	1	U	

nsample	G01-MW-07-0204
samp_date	2/6/2004
lab_id	WU0347-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TETRAHYDROFURAN	5	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	0.4	J	P
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	2	U	
VINYL ACETATE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: OV

nsample	G01-MW-08-0204
samp_date	2/6/2004
lab_id	WU0346-10
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	0.3	J	P
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	18		
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	A
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

nsample	G01-MW-08-0204
samp_date	2/6/2004
lab_id	WU0346-10
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

nsample	G01-MW-09-0204
samp_date	2/6/2004
lab_id	WU0346-8
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	0.5	J	P
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	2		
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	0.8	J	P
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	4		
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: OV

nsample	G01-MW-09-0204
samp_date	2/6/2004
lab_id	WU0346-8
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

nsample	G01-MW-10-0204
samp_date	2/6/2004
lab_id	WU0346-7
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	0.3	J	P
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	6		
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	A
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

nsample	G01-MW-10-0204
samp_date	2/6/2004
lab_id	WU0346-7
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: OV

nsample	G01-MW-11-0204
samp_date	2/6/2004
lab_id	WU0347-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	J	P
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,3-TRIMETHYLBENZENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRICHLOROBENZENE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	1	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	11	J	AC

nsample	G01-MW-11-0204
samp_date	2/6/2004
lab_id	WU0347-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1		
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	2		
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	0.4	J	P
CIS-1,3-DICHLOROPROPENE	1	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	2	U	
DIETHYL ETHER	1	U	
ETHYLBENZENE	8		
HEXACHLOROBUTADIENE	1	U	
ISOPROPYLBENZENE	2		
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	UR	C
METHYLENE CHLORIDE	2	U	A
NAPHTHALENE	40		
N-BUTYLBENZENE	1		
N-PROPYLBENZENE	5		
O-XYLENE	1	U	
SEC-BUTYLBENZENE	1		
STYRENE	1	U	
TERT-BUTYLBENZENE	0.9	J	P
TETRACHLOROETHENE	1	U	

nsample	G01-MW-11-0204
samp_date	2/6/2004
lab_id	WU0347-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TETRAHYDROFURAN	5	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	0.4	J	P
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	2	U	
VINYL ACETATE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: OV

nsample	G01-MW-12-0204
samp_date	2/6/2004
lab_id	WU0346-9
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	0.1	J	P
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	9		
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

nsample	G01-MW-12-0204
samp_date	2/6/2004
lab_id	WU0346-9
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

nsample	KW-DUP-02-0204
samp_date	2/6/2004
lab_id	WU0347-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	G01-MW-11-0204

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1		
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,3-TRIMETHYLBENZENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRICHLOROBENZENE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	1	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	10	J	AC

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: OV

nsample	KW-DUP-02-0204
samp_date	2/6/2004
lab_id	WU0347-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	G01-MW-11-0204

Parameter	Result	Val Qual	Qual Code
BENZENE	1		
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	1		
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	0.4	J	P
CIS-1,3-DICHLOROPROPENE	1	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	2	U	
DIETHYL ETHER	1	U	
ETHYLBENZENE	8		
HEXACHLOROBUTADIENE	1	U	
ISOPROPYLBENZENE	2		
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	UR	C
METHYLENE CHLORIDE	2	U	
NAPHTHALENE	40		
N-BUTYLBENZENE	1		
N-PROPYLBENZENE	5		
O-XYLENE	1	U	
SEC-BUTYLBENZENE	2		
STYRENE	1	U	
TERT-BUTYLBENZENE	1		
TETRACHLOROETHENE	1	U	

nsample	KW-DUP-02-0204
samp_date	2/6/2004
lab_id	WU0347-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	G01-MW-11-0204

Parameter	Result	Val Qual	Qual Code
TETRAHYDROFURAN	5	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	0.4	J	P
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	2	U	
VINYL ACETATE	1	U	
VINYL CHLORIDE	2	U	

nsample	KWTB-020404
samp_date	1/26/2004
lab_id	WU0318-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: OV

nsample	KWTB-020604
samp_date	1/26/2004
lab_id	WU0346-11
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2		
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

nsample	TB-020504
samp_date	1/26/2004
lab_id	WU0334-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: PAH

nsample	B01-MW-01-0204	nsample	B01-MW-03-0204	nsample	G01-MW-01-0204
samp_date	2/5/2004	samp_date	2/5/2004	samp_date	2/4/2004
lab_id	WU0334-4	lab_id	WU0334-5	lab_id	WU0318-3RA
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: PAH

nsample	G01-MW-01A-0204	nsample	G01-MW-02-0204	nsample	G01-MW-03-0204
samp_date	2/4/2004	samp_date	2/4/2004	samp_date	2/4/2004
lab_id	WU0318-2	lab_id	WU0318-5	lab_id	WU0318-4
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: PAH

nsample	G01-MW-04-0204
samp_date	2/4/2004
lab_id	WU0318-6
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.32		
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

nsample	G01-MW-05-0204
samp_date	2/5/2004
lab_id	WU0334-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.38		
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	46		
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	1.8		
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	1.4		
FLUORENE	0.3		
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.4		
PHENANTHRENE	0.17	J	P
PYRENE	0.33		

nsample	G01-MW-06-0204
samp_date	2/5/2004
lab_id	WU0334-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	18		
2-METHYLNAPHTHALENE	1.1		
ACENAPHTHENE	0.68		
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.66		
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.16	J	P
FLUORENE	0.42		
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	2.2		
PHENANTHRENE	7.4		
PYRENE	0.17	J	P

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: PAH

nsample	G01-MW-07-0204		nsample	G01-MW-08-0204		nsample	G01-MW-09-0204	
samp_date	2/6/2004		samp_date	2/6/2004		samp_date	2/6/2004	
lab_id	WU0346-5DL		lab_id	WU0346-10DL2		lab_id	WU0346-8DL2	
qc_type	NM		qc_type	NM		qc_type	NM	
units	UG/L		units	UG/L		units	UG/L	
Pct_Solids			Pct_Solids			Pct_Solids		
DUP_OF:			DUP_OF:			DUP_OF:		

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	8		
2-METHYLNAPHTHALENE	9.3		
ACENAPHTHENE	0.66	J	P
ACENAPHTHYLENE	0.78	U	
ANTHRACENE	0.78	U	
BENZO(A)ANTHRACENE	0.78	U	
BENZO(A)PYRENE	0.78	U	
BENZO(B)FLUORANTHENE	0.78	U	
BENZO(G,H,I)PERYLENE	0.78	U	
BENZO(K)FLUORANTHENE	0.78	U	
CHRYSENE	0.78	U	
DIBENZO(A,H)ANTHRACENE	0.78	U	
FLUORANTHENE	0.78	U	
FLUORENE	0.94		
INDENO(1,2,3-CD)PYRENE	0.78	U	
NAPHTHALENE	1.9		
PHENANTHRENE	1.6		
PYRENE	0.78	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	130		
2-METHYLNAPHTHALENE	160		
ACENAPHTHENE	19	U	
ACENAPHTHYLENE	19	U	
ANTHRACENE	19	U	
BENZO(A)ANTHRACENE	19	U	
BENZO(A)PYRENE	19	U	
BENZO(B)FLUORANTHENE	19	U	
BENZO(G,H,I)PERYLENE	19	U	
BENZO(K)FLUORANTHENE	19	U	
CHRYSENE	19	U	
DIBENZO(A,H)ANTHRACENE	19	U	
FLUORANTHENE	19	U	
FLUORENE	7.8	J	P
INDENO(1,2,3-CD)PYRENE	19	U	
NAPHTHALENE	96		
PHENANTHRENE	11	J	P
PYRENE	19	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	11		
2-METHYLNAPHTHALENE	11		
ACENAPHTHENE	1		
ACENAPHTHYLENE	0.98	U	
ANTHRACENE	0.98	U	
BENZO(A)ANTHRACENE	0.98	U	
BENZO(A)PYRENE	0.98	U	
BENZO(B)FLUORANTHENE	0.98	U	
BENZO(G,H,I)PERYLENE	0.98	U	
BENZO(K)FLUORANTHENE	0.98	U	
CHRYSENE	0.98	U	
DIBENZO(A,H)ANTHRACENE	0.98	U	
FLUORANTHENE	0.98	U	
FLUORENE	0.91	J	P
INDENO(1,2,3-CD)PYRENE	0.98	U	
NAPHTHALENE	7.5		
PHENANTHRENE	0.68	J	P
PYRENE	0.98	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: PAH

nsample	G01-MW-10-0204
samp_date	2/6/2004
lab_id	WU0346-7DL2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	56		
2-METHYLNAPHTHALENE	71		
ACENAPHTHENE	3.3	J	P
ACENAPHTHYLENE	4.8	U	
ANTHRACENE	4.8	U	
BENZO(A)ANTHRACENE	4.8	U	
BENZO(A)PYRENE	4.8	U	
BENZO(B)FLUORANTHENE	4.8	U	
BENZO(G,H,I)PERYLENE	4.8	U	
BENZO(K)FLUORANTHENE	4.8	U	
CHRYSENE	4.8	U	
DIBENZO(A,H)ANTHRACENE	4.8	U	
FLUORANTHENE	4.8	U	
FLUORENE	4.2	J	P
INDENO(1,2,3-CD)PYRENE	4.8	U	
NAPHTHALENE	47		
PHENANTHRENE	3.6	J	P
PYRENE	4.8	U	

nsample	G01-MW-11-0204
samp_date	2/6/2004
lab_id	WU0346-1DL2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	41		
2-METHYLNAPHTHALENE	44		
ACENAPHTHENE	3.4	J	P
ACENAPHTHYLENE	3.8	U	
ANTHRACENE	3.8	U	
BENZO(A)ANTHRACENE	3.8	U	
BENZO(A)PYRENE	3.8	U	
BENZO(B)FLUORANTHENE	3.8	U	
BENZO(G,H,I)PERYLENE	3.8	U	
BENZO(K)FLUORANTHENE	3.8	U	
CHRYSENE	3.8	U	
DIBENZO(A,H)ANTHRACENE	3.8	U	
FLUORANTHENE	3.8	U	
FLUORENE	4.3		
INDENO(1,2,3-CD)PYRENE	3.8	U	
NAPHTHALENE	18		
PHENANTHRENE	3.6	J	P
PYRENE	3.8	U	

nsample	G01-MW-12-0204
samp_date	2/6/2004
lab_id	WU0346-9DL2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	61		
2-METHYLNAPHTHALENE	60		
ACENAPHTHENE	5.3		
ACENAPHTHYLENE	4.8	U	
ANTHRACENE	4.8	U	
BENZO(A)ANTHRACENE	4.8	U	
BENZO(A)PYRENE	4.8	U	
BENZO(B)FLUORANTHENE	4.8	U	
BENZO(G,H,I)PERYLENE	4.8	U	
BENZO(K)FLUORANTHENE	4.8	U	
CHRYSENE	4.8	U	
DIBENZO(A,H)ANTHRACENE	4.8	U	
FLUORANTHENE	4.8	U	
FLUORENE	6.7		
INDENO(1,2,3-CD)PYRENE	4.8	U	
NAPHTHALENE	28		
PHENANTHRENE	5.1		
PYRENE	4.8	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: PAH

nsample	KW-DUP-02-0204
samp_date	2/6/2004
lab_id	WU0346-3DL
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	G01-MW-11-0204

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	51		
2-METHYLNAPHTHALENE	58		
ACENAPHTHENE	3.4	J	P
ACENAPHTHYLENE	4.8	U	
ANTHRACENE	4.8	U	
BENZO(A)ANTHRACENE	4.8	U	
BENZO(A)PYRENE	4.8	U	
BENZO(B)FLUORANTHENE	4.8	U	
BENZO(G,H,I)PERYLENE	4.8	U	
BENZO(K)FLUORANTHENE	4.8	U	
CHRYSENE	4.8	U	
DIBENZO(A,H)ANTHRACENE	4.8	U	
FLUORANTHENE	4.8	U	
FLUORENE	4	J	P
INDENO(1,2,3-CD)PYRENE	4.8	U	
NAPHTHALENE	22		
PHENANTHRENE	4.8	J	P
PYRENE	4.8	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: PET

nsample	G01-MW-01-0204	nsample	G01-MW-01A-0204	nsample	G01-MW-02-0204
samp_date	2/4/2004	samp_date	2/4/2004	samp_date	2/4/2004
lab_id	WU0318-3	lab_id	WU0318-2	lab_id	WU0318-5
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	510	U	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	510	U	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: PET

nsample	G01-MW-03-0204	nsample	G01-MW-04-0204	nsample	G01-MW-05-0204
samp_date	2/4/2004	samp_date	2/4/2004	samp_date	2/5/2004
lab_id	WU0318-4	lab_id	WU0318-6	lab_id	WU0334-2
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	300	J	P

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	1000		

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	620		

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: PET

nsample	G01-MW-06-0204	nsample	G01-MW-07-0204	nsample	G01-MW-08-0204
samp_date	2/5/2004	samp_date	2/6/2004	samp_date	2/6/2004
lab_id	WU0334-1	lab_id	WU0346-5	lab_id	WU0346-10
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	5400		

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	570		

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	3100		

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: PET

nsample	G01-MW-09-0204	nsample	G01-MW-10-0204	nsample	G01-MW-11-0204
samp_date	2/6/2004	samp_date	2/6/2004	samp_date	2/6/2004
lab_id	WU0346-8	lab_id	WU0346-7	lab_id	WU0346-1
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	1100		

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	2200		

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	1800		

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: PET

nsample	G01-MW-12-0204	nsample	KW-DUP-02-0204
samp_date	2/6/2004	samp_date	2/6/2004
lab_id	WU0346-9	lab_id	WU0346-3
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	G01-MW-11-0204

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	3200		

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	1700		

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: OVG

nsample	G01-MW-01-0204	nsample	G01-MW-01A-0204	nsample	G01-MW-02-0204
samp_date	2/4/2004	samp_date	2/4/2004	samp_date	2/4/2004
lab_id	0402100-02A	lab_id	0402100-01A	lab_id	0402100-04A
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHANE	200		

Parameter	Result	Val Qual	Qual Code
METHANE	160		

Parameter	Result	Val Qual	Qual Code
METHANE	57		

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: OVG

nsample	G01-MW-03-0204	nsample	G01-MW-04-0204	nsample	G01-MW-05-0204
samp_date	2/4/2004	samp_date	2/4/2004	samp_date	2/5/2004
lab_id	0402100-03A	lab_id	0402100-05A	lab_id	0402144-02A
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHANE	1100		

Parameter	Result	Val Qual	Qual Code
METHANE	500		

Parameter	Result	Val Qual	Qual Code
METHANE	4400		

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: OVG

nsample	G01-MW-06-0204	nsample	G01-MW-07-0204	nsample	G01-MW-08-0204
samp_date	2/5/2004	samp_date	2/6/2004	samp_date	2/6/2004
lab_id	0402144-01A	lab_id	0402145-03A	lab_id	0402145-07A
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHANE	9100		

Parameter	Result	Val Qual	Qual Code
METHANE	940		

Parameter	Result	Val Qual	Qual Code
METHANE	2600		

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: OVG

nsample	G01-MW-09-0204	nsample	G01-MW-10-0204	nsample	G01-MW-11-0204
samp_date	2/6/2004	samp_date	2/6/2004	samp_date	2/6/2004
lab_id	0402145-05A	lab_id	0402145-04A	lab_id	0402145-01A
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHANE	3800		

Parameter	Result	Val Qual	Qual Code
METHANE	2500		

Parameter	Result	Val Qual	Qual Code
METHANE	4800		

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: OVG

nsample	G01-MW-12-0204	nsample	KW-DUP-02-0204
samp_date	2/6/2004	samp_date	2/6/2004
lab_id	0402145-06A	lab_id	0402145-02A
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	G01-MW-11-0204

Parameter	Result	Val Qual	Qual Code
METHANE	4700		

Parameter	Result	Val Qual	Qual Code
METHANE	5500		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/04/04
Received Date: 02/05/04
Extraction Date:
Analysis Date: 02/12/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-3
Client ID: G01-MW-01-0204
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG6009
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.9
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		100%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		83%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/04/04
Received Date: 02/05/04
Extraction Date:
Analysis Date: 02/12/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-2
Client ID: G01-MW-01A-0204
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG6072
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.9
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		98%				
17060-07-0	1,2-Dichloroethane-D4		101%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		82%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/04/04
Received Date: 02/05/04
Extraction Date:
Analysis Date: 02/12/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-5
Client ID: G01-MW-02-0204
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG6009
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.9
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		94%				
17060-07-0	1,2-Dichloroethane-D4		97%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		83%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/04/04
Received Date: 02/05/04
Extraction Date:
Analysis Date: 02/12/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-4
Client ID: G01-MW-03-0204
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG6009
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.9
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		94%				
17060-07-0	1,2-Dichloroethane-D4		92%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		81%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/04/04
Received Date: 02/05/04
Extraction Date:
Analysis Date: 02/12/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-6
Client ID: G01-MW-04-0204
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG6009
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.9
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		97%				
17060-07-0	1,2-Dichloroethane-D4		101%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		85%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/05/04
Received Date: 02/06/04
Extraction Date:
Analysis Date: 02/10/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0334-2
Client ID: G01-MW-05-0204
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5962
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.9
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	J	0.1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		87%				
17060-07-0	1,2-Dichloroethane-D4		82%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/05/04
Received Date: 02/06/04
Extraction Date:
Analysis Date: 02/11/04
Report Date: 03/03/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0344-1
Client ID: G01-MW-06-0204
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5981
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.9
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
100-44-7	Diethyl Ether	U	1	1.0	1	1	0.1
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
76-13-1	Freon-113	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
67-64-1	Acetone	U	5	1.0	5	5	1
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.8
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.2
594-20-7	2,2-Dichloropropane	U	1	1.0	1	1	0.2
74-97-5	Bromochloromethane	U	1	1.0	1	1	0.1
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
563-58-6	1,1-Dichloropropene	U	1	1.0	1	1	0.9
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene		5	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
74-95-3	Dibromomethane	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	0.8
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
142-28-9	1,3-Dichloropropane	U	1	1.0	1	1	0.2
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.09
591-78-6	2-Hexanone	U	5	1.0	5	5	1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/05/04
Received Date: 02/06/04
Extraction Date:
Analysis Date: 02/11/04
Report Date: 03/03/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0344-1
Client ID: G01-MW-06-0204
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5981
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene		3	1.0	1	1	0.2
630-20-6	1,1,1,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	J	0.2	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.1
98-82-8	Isopropylbenzene	J	0.6	1.0	1	1	0.3
108-86-1	Bromobenzene	U	1	1.0	1	1	0.2
103-65-1	N-Propylbenzene		1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-49-8	2-Chlorotoluene	U	1	1.0	1	1	0.2
96-18-4	1,2,3-Trichloropropane	U	1	1.0	1	1	0.1
106-43-4	4-Chlorotoluene	U	1	1.0	1	1	0.2
98-06-6	tert-Butylbenzene	J	0.6	1.0	1	1	0.3
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.3
99-87-6	P-Isopropyltoluene	U	1	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.2
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
104-51-8	N-Butylbenzene	J	0.5	1.0	1	1	0.3
135-98-8	sec-Butylbenzene	J	0.5	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	1	1.0	1	1	0.4
108-70-3	1,3,5-Trichlorobenzene	U	1	1.0	1	1	0.3
87-68-3	Hexachlorobutadiene	U	1	1.0	1	1	0.4
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.2
526-73-8	1,2,3-Trimethylbenzene	U	1	1.0	1	1	0.2
91-20-3	Naphthalene		3	1.0	1	1	0.4
87-61-6	1,2,3-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		105%				
17060-07-0	1,2-Dichloroethane-D4		109%				
2037-26-5	Toluene-D8		91%				
460-00-4	P-Bromofluorobenzene		96%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

GO1-MW-06-0204

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Matrix: (soil/water) WATER Lab Sample ID: WU0344-1

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: Z0080

Level: (low/med) LOW Date Received: 02/06/04

% Moisture: not dec. _____ Date Analyzed: 02/11/04

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	7446-09-5	SULFUR DIOXIDE	2.42	2	NJ
2.	933-98-2	BENZENE, 1-ETHYL-2,3-DIMETH	15.33	2	NJ
3.	27133-93-3	2,3-DIHYDRO-1-METHYLINDENE	15.43	3	NJ
4.	95-93-2	BENZENE, 1,2,4,5-TETRAMETHY	15.59	2	NJ
5.	1587-04-8	BENZENE, 1-METHYL-2-(2-PROP	15.90	10	NJ
6.		C11H14 ISOMER	16.08	3	J
7.		C11H14 ISOMER	16.14	2	J
8.	56253-64-6	BENZENE, (2-METHYL-1-BUTENY	16.19	3	NJ
9.	17057-82-8	1H-INDENE, 2,3-DIHYDRO-1,2-	16.70	3	NJ
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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date:
Analysis Date: 02/13/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0347-3
Client ID: G01-MW-07-0204
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG6035
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.9
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
100-44-7	Diethyl Ether	U	1	1.0	1	1	0.1
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-15-0	Carbon Disulfide	J	0.7	1.0	1	1	0.2
76-13-1	Freon-113	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
67-64-1	Acetone	J	2	1.0	5	5	1
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.8
156-59-2	cis-1,2-Dichloroethene	J	0.4	1.0	1	1	0.09
540-59-0	1,2-Dichloroethylene (total)	J	0.4	1.0	2	2	0.2
594-20-7	2,2-Dichloropropane	U	1	1.0	1	1	0.2
74-97-5	Bromochloromethane	U	1	1.0	1	1	0.1
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
563-58-6	1,1-Dichloropropene	U	1	1.0	1	1	0.9
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	J	0.1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
74-95-3	Dibromomethane	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	0.8
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
142-28-9	1,3-Dichloropropane	U	1	1.0	1	1	0.2
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.09
591-78-6	2-Hexanone	U	5	1.0	5	5	1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date:
Analysis Date: 02/13/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0347-3
Client ID: G01-MW-07-0204
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG6035
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	J	0.4	1.0	1	1	0.2
630-20-6	1,1,1,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.1
98-82-8	Isopropylbenzene	U	1	1.0	1	1	0.3
108-86-1	Bromobenzene	U	1	1.0	1	1	0.2
103-65-1	N-Propylbenzene	J	0.5	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-49-8	2-Chlorotoluene	U	1	1.0	1	1	0.2
96-18-4	1,2,3-Trichloropropane	U	1	1.0	1	1	0.1
106-43-4	4-Chlorotoluene	U	1	1.0	1	1	0.2
98-06-6	tert-Butylbenzene	U	1	1.0	1	1	0.3
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.3
99-87-6	P-Isopropyltoluene	U	1	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.2
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
104-51-8	N-Butylbenzene	J	0.4	1.0	1	1	0.3
135-98-8	sec-Butylbenzene	J	0.6	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	1	1.0	1	1	0.4
108-70-3	1,3,5-Trichlorobenzene	U	1	1.0	1	1	0.3
87-68-3	Hexachlorobutadiene	U	1	1.0	1	1	0.4
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.2
526-73-8	1,2,3-Trimethylbenzene	U	1	1.0	1	1	0.2
91-20-3	Naphthalene		2	1.0	1	1	0.4
87-61-6	1,2,3-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		100%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		88%				
460-00-4	P-Bromofluorobenzene		91%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

G01-MW-07-0204

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Matrix: (soil/water) WATER Lab Sample ID: WU0347-3

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: Z0126

Level: (low/med) LOW Date Received: 02/07/04

% Moisture: not dec. _____ Date Analyzed: 02/13/04

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	2.21	2	J
2.	90-12-0	NAPHTHALENE, 1-METHYL-	17.36	2	NJ
3.	90-12-0	NAPHTHALENE, 1-METHYL-	17.52	1	NJ
4.	575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	18.59	1	NJ
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date:
Analysis Date: 02/11/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-10
Client ID: G01-MW-08-0204
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5981
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	JB	1	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	J	0.3	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene		18	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		97%				
17060-07-0	1,2-Dichloroethane-D4		98%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		98%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date:
Analysis Date: 02/11/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-8
Client ID: G01-MW-09-0204
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5981
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	J	0.5	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	J	0.8	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene		2	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene		4	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		99%				
17060-07-0	1,2-Dichloroethane-D4		101%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date:
Analysis Date: 02/11/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-7
Client ID: G01-MW-10-0204
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5981
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	JB	1	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	J	0.3	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene		6	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		99%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		90%				
460-00-4	P-Bromofluorobenzene		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date:
Analysis Date: 02/13/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0347-1
Client ID: G01-MW-11-0204
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG6035
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.9
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
100-44-7	Diethyl Ether	U	1	1.0	1	1	0.1
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-15-0	Carbon Disulfide		2	1.0	1	1	0.2
76-13-1	Freon-113	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	JB	1	1.0	2	2	0.4
67-64-1	Acetone		11	1.0	5	5	1
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	J	1.0	1.0	1	1	0.1
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.8
156-59-2	cis-1,2-Dichloroethene	J	0.4	1.0	1	1	0.09
540-59-0	1,2-Dichloroethylene (total)	J	0.4	1.0	2	2	0.2
594-20-7	2,2-Dichloropropane	U	1	1.0	1	1	0.2
74-97-5	Bromochloromethane	U	1	1.0	1	1	0.1
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
563-58-6	1,1-Dichloropropene	U	1	1.0	1	1	0.9
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene		1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
74-95-3	Dibromomethane	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	0.8
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
142-28-9	1,3-Dichloropropane	U	1	1.0	1	1	0.2
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.09
591-78-6	2-Hexanone	U	5	1.0	5	5	1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date:
Analysis Date: 02/13/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0347-1
Client ID: G01-MW-11-0204
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG6035
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene		8	1.0	1	1	0.2
630-20-6	1,1,1,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.1
98-82-8	Isopropylbenzene		2	1.0	1	1	0.3
108-86-1	Bromobenzene	U	1	1.0	1	1	0.2
103-65-1	N-Propylbenzene		5	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-49-8	2-Chlorotoluene	U	1	1.0	1	1	0.2
96-18-4	1,2,3-Trichloropropane	U	1	1.0	1	1	0.1
106-43-4	4-Chlorotoluene	U	1	1.0	1	1	0.2
98-06-6	tert-Butylbenzene	J	0.9	1.0	1	1	0.3
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.3
99-87-6	P-Isopropyltoluene	U	1	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.2
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
104-51-8	N-Butylbenzene		1	1.0	1	1	0.3
135-98-8	sec-Butylbenzene		1	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	1	1.0	1	1	0.4
108-70-3	1,3,5-Trichlorobenzene	U	1	1.0	1	1	0.3
87-68-3	Hexachlorobutadiene	U	1	1.0	1	1	0.4
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.2
526-73-8	1,2,3-Trimethylbenzene	U	1	1.0	1	1	0.2
91-20-3	Naphthalene		40	1.0	1	1	0.4
87-61-6	1,2,3-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		102%				
17060-07-0	1,2-Dichloroethane-D4		108%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		95%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

G01-MW-11-0204

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Matrix: (soil/water) WATER Lab Sample ID: WU0347-1

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: Z0124

Level: (low/med) LOW Date Received: 02/07/04

% Moisture: not dec. _____ Date Analyzed: 02/13/04

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	496-11-7	INDANE	15.09	2	NJ
2.	933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHY	15.34	2	NJ
3.	27133-93-3	2,3-DIHYDRO-1-METHYLINDENE	15.43	2	NJ
4.	488-23-3	BENZENE, 1,2,3,4-TETRAMETHYL	15.59	2	NJ
5.	1587-04-8	BENZENE, 1-METHYL-2-(2-PROPE	15.90	5	NJ
6.	17057-82-8	1H-INDENE, 2,3-DIHYDRO-1,2-D	16.07	1	NJ
7.	17057-82-8	1H-INDENE, 2,3-DIHYDRO-1,2-D	16.70	2	NJ
8.	90-12-0	NAPHTHALENE, 1-METHYL-	17.37	9	NJ
9.	90-12-0	NAPHTHALENE, 1-METHYL-	17.53	6	NJ
10.					
11.					
12.					
13.					
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20.					
21.					
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28.					
29.					
30.					

FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date:
Analysis Date: 02/11/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-9
Client ID: G01-MW-12-0204
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5981
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	J	0.1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene		9	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		97%				
17060-07-0	1,2-Dichloroethane-D4		98%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date:
Analysis Date: 02/13/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0347-2
Client ID: KW-DUP-02-0204
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG6035
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.9
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
100-44-7	Diethyl Ether	U	1	1.0	1	1	0.1
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-15-0	Carbon Disulfide		1	1.0	1	1	0.2
76-13-1	Freon-113	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
67-64-1	Acetone		10	1.0	5	5	1
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane		1	1.0	1	1	0.1
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.8
156-59-2	cis-1,2-Dichloroethene	J	0.4	1.0	1	1	0.09
540-59-0	1,2-Dichloroethylene (total)	J	0.4	1.0	2	2	0.2
594-20-7	2,2-Dichloropropane	U	1	1.0	1	1	0.2
74-97-5	Bromochloromethane	U	1	1.0	1	1	0.1
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
563-58-6	1,1-Dichloropropene	U	1	1.0	1	1	0.9
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene		1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
74-95-3	Dibromomethane	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	0.8
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
142-28-9	1,3-Dichloropropane	U	1	1.0	1	1	0.2
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.09
591-78-6	2-Hexanone	U	5	1.0	5	5	1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date:
Analysis Date: 02/13/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0347-2
Client ID: KW-DUP-02-0204
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG6035
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene		8	1.0	1	1	0.2
630-20-6	1,1,1,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.1
98-82-8	Isopropylbenzene		2	1.0	1	1	0.3
108-86-1	Bromobenzene	U	1	1.0	1	1	0.2
103-65-1	N-Propylbenzene		5	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-49-8	2-Chlorotoluene	U	1	1.0	1	1	0.2
96-18-4	1,2,3-Trichloropropane	U	1	1.0	1	1	0.1
106-43-4	4-Chlorotoluene	U	1	1.0	1	1	0.2
98-06-6	tert-Butylbenzene		1	1.0	1	1	0.3
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.3
99-87-6	P-Isopropyltoluene	U	1	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.2
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
104-51-8	N-Butylbenzene		1	1.0	1	1	0.3
135-98-8	sec-Butylbenzene		2	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	1	1.0	1	1	0.4
108-70-3	1,3,5-Trichlorobenzene	U	1	1.0	1	1	0.3
87-68-3	Hexachlorobutadiene	U	1	1.0	1	1	0.4
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.2
526-73-8	1,2,3-Trimethylbenzene	U	1	1.0	1	1	0.2
91-20-3	Naphthalene		40	1.0	1	1	0.4
87-61-6	1,2,3-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		102%				
17060-07-0	1,2-Dichloroethane-D4		104%				
2037-26-5	Toluene-D8		93%				
460-00-4	P-Bromofluorobenzene		93%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

KW-DUP-02-0204

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Matrix: (soil/water) WATER Lab Sample ID: WU0347-2

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: Z0125

Level: (low/med) LOW Date Received: 02/07/04

% Moisture: not dec. _____ Date Analyzed: 02/13/04

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	496-11-7	INDANE	15.09	2	NJ
2.	1758-88-9	BENZENE, 2-ETHYL-1,4-DIMETHY	15.33	2	NJ
3.	27133-93-3	2,3-DIHYDRO-1-METHYLINDENE	15.42	2	NJ
4.	95-93-2	BENZENE, 1,2,4,5-TETRAMETHYL	15.58	2	NJ
5.	1587-04-8	BENZENE, 1-METHYL-2-(2-PROPE	15.90	6	NJ
6.	90-12-0	NAPHTHALENE, 1-METHYL-	17.36	9	NJ
7.	90-12-0	NAPHTHALENE, 1-METHYL-	17.52	6	NJ
8.	581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	18.42	2	NJ
9.	581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	18.58	2	NJ
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 01/26/04
Received Date: 02/05/04
Extraction Date:
Analysis Date: 02/12/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-1
Client ID: KWTB-020404
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG6009
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.9
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		94%				
17060-07-0	1,2-Dichloroethane-D4		94%				
2037-26-5	Toluene-D8		92%				
460-00-4	P-Bromofluorobenzene		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 01/26/04
Received Date: 02/07/04
Extraction Date:
Analysis Date: 02/11/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-11
Client ID: KWTB-020604
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5981
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	B	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		106%				
17060-07-0	1,2-Dichloroethane-D4		105%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		83%				

Sample Data Summary A0000018

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 01/26/04
Received Date: 02/06/04
Extraction Date:
Analysis Date: 02/10/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0334-3
Client ID: TB-020504
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5962
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.9
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		84%				
17060-07-0	1,2-Dichloroethane-D4		82%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/04/04
Received Date: 02/05/04
Extraction Date: 02/17/04
Analysis Date: 02/17/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-2RE
Client ID: G01-MW-01A-0204
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG6088
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		110%				

Sample Data Summary A0000263

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/04/04
Received Date: 02/05/04
Extraction Date: 02/17/04
Analysis Date: 02/17/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-3RE
Client ID: G01-MW-01-0204
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG6088
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		76%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/04/04
Received Date: 02/05/04
Extraction Date: 02/17/04
Analysis Date: 02/17/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-5RE
Client ID: G01-MW-02-0204
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG6088
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/04/04
Received Date: 02/05/04
Extraction Date: 02/17/04
Analysis Date: 02/17/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-4RE
Client ID: G01-MW-03-0204
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG6088
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/05/04
Received Date: 02/06/04
Extraction Date: 02/17/04
Analysis Date: 02/17/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0334-2RE
Client ID: G01-MW-05-0204
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG6088
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		109%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/04/04
Received Date: 02/05/04
Extraction Date: 02/17/04
Analysis Date: 02/17/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-6RE
Client ID: G01-MW-04-0204
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG6088
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		80%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/05/04
Received Date: 02/06/04
Extraction Date: 02/11/04
Analysis Date: 02/12/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0334-1
Client ID: G01-MW-06-0204
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG5985
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/05/04
Received Date: 02/06/04
Extraction Date: 02/19/04
Analysis Date: 02/19/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0334-1RE2
Client ID: G01-MW-06-0204
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG6134
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		119%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/17/04
Analysis Date: 02/17/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-5RE
Client ID: G01-MW-07-0204
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG6088
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		86%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/17/04
Analysis Date: 02/17/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-10RE
Client ID: G01-MW-08-0204
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG6088
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		122%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/11/04
Analysis Date: 02/12/04
Report Date: 03/03/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-8
Client ID: G01-MW-09-0204
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG5985
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		*132%				

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/17/04
Analysis Date: 02/17/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-8RE
Client ID: G01-MW-09-0204
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG6088
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		124%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/17/04
Analysis Date: 02/17/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-7RE
Client ID: G01-MW-10-0204
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG6088
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		124%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/17/04
Analysis Date: 02/17/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-1RE
Client ID: G01-MW-11-0204
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG6088
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		104%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/17/04
Analysis Date: 02/17/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-9RE
Client ID: G01-MW-12-0204
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG6088
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		113%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/17/04
Analysis Date: 02/17/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-3RE
Client ID: KW-DUP-02-0204
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG6088
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		128%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/05/04
Received Date: 02/06/04
Extraction Date: 02/09/04
Analysis Date: 03/03/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0334-4
Client ID: B01-MW-01-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5943
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.049
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.049
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.078
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.059
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.088
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.069
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.088
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.088
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.098
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
7297-45-2	2-Methylnaphthalene-d10		91%				
81103-79-9	Fluorene-d10		75%				
1718-52-1	Pyrene-d10		80%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/05/04
Received Date: 02/06/04
Extraction Date: 02/09/04
Analysis Date: 03/03/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0334-5
Client ID: B01-MW-03-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5943
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.076
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.076
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.076
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.076
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.076
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.095
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.076
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.076
7297-45-2	2-Methylnaphthalene-d10		78%				
81103-79-9	Fluorene-d10		66%				
1718-52-1	Pyrene-d10		85%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/04/04
Received Date: 02/05/04
Extraction Date: 02/06/04
Analysis Date: 03/03/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-3RA
Client ID: G01-MW-01-0204
SDG: CTO297-4
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5895
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.080
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.090
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.080
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
7297-45-2	2-Methylnaphthalene-d10		58%				
81103-79-9	Fluorene-d10		57%				
1718-52-1	Pyrene-d10		71%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/04/04
Received Date: 02/05/04
Extraction Date: 02/06/04
Analysis Date: 03/02/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-2
Client ID: G01-MW-01A-0204
SDG: CTO297-4
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5895
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.080
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.090
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.080
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
7297-45-2	2-Methylnaphthalene-d10		51%				
81103-79-9	Fluorene-d10		54%				
1718-52-1	Pyrene-d10		54%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/04/04
Received Date: 02/05/04
Extraction Date: 02/06/04
Analysis Date: 03/02/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-5
Client ID: G01-MW-02-0204
SDG: CTO297-4
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5895
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.080
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.090
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.080
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
7297-45-2	2-Methylnaphthalene-d10		48%				
81103-79-9	Fluorene-d10		54%				
1718-52-1	Pyrene-d10		51%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/04/04
Received Date: 02/05/04
Extraction Date: 02/06/04
Analysis Date: 03/02/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-4
Client ID: G01-MW-03-0204
SDG: CTO297-4
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5895
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.051
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.082
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.051
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.082
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.061
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.082
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.082
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.092
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.071
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.092
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.082
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.092
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.082
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.082
7297-45-2	2-Methylnaphthalene-d10		40%				
81103-79-9	Fluorene-d10		43%				
1718-52-1	Pyrene-d10		35%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/04/04
Received Date: 02/05/04
Extraction Date: 02/06/04
Analysis Date: 03/02/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-6
Client ID: G01-MW-04-0204
SDG: CTO297-4
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5895
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene		0.32	1.0	0.20	0.20	0.078
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.078
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.087
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.068
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.087
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.087
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.097
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
7297-45-2	2-Methylnaphthalene-d10		65%				
81103-79-9	Fluorene-d10		58%				
1718-52-1	Pyrene-d10		49%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEYWEST
PO No:
Sample Date: 02/05/04
Received Date: 02/06/04
Extraction Date: 02/09/04
Analysis Date: 03/03/04
Report Date: 03/08/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0334-2
Client ID: G01-MW-05-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5943
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		0.40	1.0	0.20	0.20	0.049
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.078
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.049
83-32-9	Acenaphthene	E	26	1.0	0.20	0.20	0.078
86-73-7	Fluorene		0.30	1.0	0.20	0.20	0.059
85-01-8	Phenanthrene	J	0.17	1.0	0.20	0.20	0.078
120-12-7	Anthracene		1.8	1.0	0.20	0.20	0.078
206-44-0	Fluoranthene		1.4	1.0	0.20	0.20	0.11
129-00-0	Pyrene		0.33	1.0	0.20	0.20	0.088
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.069
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.088
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.078
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.088
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.098
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.078
90-12-0	1-Methylnaphthalene		0.38	1.0	0.20	0.20	0.078
7297-45-2	2-Methylnaphthalene-d10		83%				
81103-79-9	Fluorene-d10		62%				
1718-52-1	Pyrene-d10		59%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/05/04
Received Date: 02/06/04
Extraction Date: 02/09/04
Analysis Date: 03/04/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0334-2DL
Client ID: G01-MW-05-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5943
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	3.9	20	0.20	3.9	0.98
91-57-6	2-Methylnaphthalene	U	3.9	20	0.20	3.9	1.6
208-96-8	Acenaphthylene	U	3.9	20	0.20	3.9	0.98
83-32-9	Acenaphthene		46	20	0.20	3.9	1.6
86-73-7	Fluorene	U	3.9	20	0.20	3.9	1.2
85-01-8	Phenanthrene	U	3.9	20	0.20	3.9	1.6
120-12-7	Anthracene	J	1.9	20	0.20	3.9	1.6
206-44-0	Fluoranthene	U	3.9	20	0.20	3.9	2.2
129-00-0	Pyrene	U	3.9	20	0.20	3.9	1.8
56-55-3	Benzo(a)anthracene	U	3.9	20	0.20	3.9	2.4
218-01-9	Chrysene	U	3.9	20	0.20	3.9	1.4
205-99-2	Benzo(b)fluoranthene	U	3.9	20	0.20	3.9	1.8
207-08-9	Benzo(k)fluoranthene	U	3.9	20	0.20	3.9	1.6
50-32-8	Benzo(a)pyrene	U	3.9	20	0.20	3.9	1.8
193-39-5	Indeno(1,2,3-cd)pyrene	U	3.9	20	0.20	3.9	2.0
53-70-3	Dibenzo(a,h)anthracene	U	3.9	20	0.20	3.9	2.9
191-24-2	Benzo(g,h,i)perylene	U	3.9	20	0.20	3.9	1.6
90-12-0	1-Methylnaphthalene	U	3.9	20	0.20	3.9	1.6
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/05/04
Received Date: 02/06/04
Extraction Date: 02/09/04
Analysis Date: 03/03/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0334-1
Client ID: G01-MW-06-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5943
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		2.2	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene		1.1	1.0	0.20	0.20	0.079
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene		0.68	1.0	0.20	0.20	0.079
86-73-7	Fluorene		0.42	1.0	0.20	0.20	0.059
85-01-8	Phenanthrene	E	5.3	1.0	0.20	0.20	0.079
120-12-7	Anthracene		0.66	1.0	0.20	0.20	0.079
206-44-0	Fluoranthene	J	0.16	1.0	0.20	0.20	0.11
129-00-0	Pyrene	J	0.17	1.0	0.20	0.20	0.089
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.069
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.089
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.079
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.089
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.099
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.079
90-12-0	1-Methylnaphthalene	E	12	1.0	0.20	0.20	0.079
7297-45-2	2-Methylnaphthalene-d10		93%				
81103-79-9	Fluorene-d10		* 22%				
1718-52-1	Pyrene-d10		74%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/05/04
Received Date: 02/06/04
Extraction Date: 02/09/04
Analysis Date: 03/04/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0334-1DL
Client ID: G01-MW-06-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5943
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		3.0	10	0.20	2.0	0.50
91-57-6	2-Methylnaphthalene	J	1.3	10	0.20	2.0	0.79
208-96-8	Acenaphthylene	U	2.0	10	0.20	2.0	0.50
83-32-9	Acenaphthene		5.9	10	0.20	2.0	0.79
86-73-7	Fluorene		3.5	10	0.20	2.0	0.59
85-01-8	Phenanthrene		7.4	10	0.20	2.0	0.79
120-12-7	Anthracene	U	2.0	10	0.20	2.0	0.79
206-44-0	Fluoranthene	U	2.0	10	0.20	2.0	1.1
129-00-0	Pyrene	U	2.0	10	0.20	2.0	0.89
56-55-3	Benzo(a)anthracene	U	2.0	10	0.20	2.0	1.2
218-01-9	Chrysene	U	2.0	10	0.20	2.0	0.69
205-99-2	Benzo(b)fluoranthene	U	2.0	10	0.20	2.0	0.89
207-08-9	Benzo(k)fluoranthene	U	2.0	10	0.20	2.0	0.79
50-32-8	Benzo(a)pyrene	U	2.0	10	0.20	2.0	0.89
193-39-5	Indeno(1,2,3-cd)pyrene	U	2.0	10	0.20	2.0	0.99
53-70-3	Dibenzo(a,h)anthracene	U	2.0	10	0.20	2.0	1.5
191-24-2	Benzo(g,h,i)perylene	U	2.0	10	0.20	2.0	0.79
90-12-0	1-Methylnaphthalene		18	10	0.20	2.0	0.79
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/05/04
Received Date: 02/06/04
Extraction Date: 02/09/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0334-6RA
Client ID: G01-MW-06-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG5942
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	10	1.0	10	10	6
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	3
95-57-8	2-Chlorophenol	U	10	1.0	10	10	5
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	3
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	3
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	3
95-48-7	2-Methylphenol	U	10	1.0	10	10	5
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	10	1.0	10	10	2
106-44-5	4-Methylphenol	U	10	1.0	10	10	5
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	2
67-72-1	Hexachloroethane	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	3
78-59-1	Isophorone	U	10	1.0	10	10	2
88-75-5	2-Nitrophenol	U	10	1.0	10	10	6
105-67-9	2,4-Dimethylphenol	U	10	1.0	10	10	8
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	3
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	6
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	3
91-20-3	Naphthalene	U	10	1.0	10	10	3
106-47-8	4-Chloroaniline	U	10	1.0	10	10	4
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	4
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	6
91-57-6	2-Methylnaphthalene	U	10	1.0	10	10	5
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	2
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	8
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	7
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	3
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	3
208-96-8	Acenaphthylene	U	10	1.0	10	10	3
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	3
99-09-2	3-Nitroaniline	U	25	1.0	25	25	3
83-32-9	Acenaphthene	J	5	1.0	10	10	2
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
100-02-7	4-Nitrophenol	U	25	1.0	25	25	6
132-64-9	Dibenzofuran	J	4	1.0	10	10	4
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	4
84-66-2	Diethylphthalate	U	10	1.0	10	10	2
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	3
86-73-7	Fluorene	J	3	1.0	10	10	3
100-01-6	4-Nitroaniline	U	25	1.0	25	25	5
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	10
86-30-6	N-Nitrosodiphenylamine	U	10	1.0	10	10	8

Sample Data Summary A0000087

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/05/04
Received Date: 02/06/04
Extraction Date: 02/09/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0334-6RA
Client ID: G01-MW-06-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG5942
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	5
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	4
87-86-5	Pentachlorophenol	U	25	1.0	25	25	9
85-01-8	Phenanthrene	J	7	1.0	10	10	3
120-12-7	Anthracene	U	10	1.0	10	10	3
86-74-8	Carbazole	J	6	1.0	10	10	4
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	3
129-00-0	Pyrene	U	10	1.0	10	10	4
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	3
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	4
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	3
218-01-9	Chrysene	U	10	1.0	10	10	3
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	8
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	3
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	2
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	3
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	2
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	2
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	2
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	2
367-12-4	2-Fluorophenol		44%				
13127-88-3	Phenol-D6		39%				
4165-60-0	Nitrobenzene-D5		71%				
321-60-8	2-Fluorobiphenyl		87%				
118-79-6	2,4,6-Tribromophenol		100%				
1718-51-0	Terphenyl-D14		113%				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

G01-MW-06-0204

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Matrix: (soil/water) WATER Lab Sample ID: WU0334-6RA

Sample wt/vol: 1.010 (g/L) L Lab File ID: X4729

Level: (low/med) LOW Date Received: 02/06/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/09/04

Concentrated Extract Volume: 0.0010 (L) Date Analyzed: 03/11/04

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	2.11	10	J
2.		UNKNOWN ALKANE	2.35	200	J
3.		UNKNOWN	5.22	40	JB
4.		UNKNOWN	9.91	6	J
5.		UNKNOWN	10.77	6	J
6.		UNKNOWN	10.88	20	J
7.		C11H14 ISOMER	12.00	5	J
8.		UNKNOWN	12.15	7	J
9.		UNKNOWN	12.46	8	J
10.		UNKNOWN	12.81	8	J
11.		C11H14 ISOMER	12.99	8	J
12.		UNKNOWN	13.18	10	J
13.		C11H10 ISOMER	13.26	20	J
14.		UNKNOWN	13.32	10	J
15.		UNKNOWN ORGANIC ACID	13.79	20	J
16.		UNKNOWN	13.92	8	J
17.		UNKNOWN	14.05	7	J
18.		C12H12 ISOMER	14.52	20	J
19.		C12H12 ISOMER	14.72	10	J
20.		C12H12 ISOMER	15.02	40	J
21.		UNKNOWN ALKANE	15.15	20	J
22.		UNKNOWN	16.21	10	J
23.		UNKNOWN	16.91	10	J
24.		UNKNOWN	17.13	20	J
25.		UNKNOWN	17.20	10	J
26.		C14H12 ISOMER	18.17	10	J
27.		UNKNOWN	18.34	20	J
28.		UNKNOWN ORGANIC ACID	20.19	20	J
29.	10544-50-0	SULFUR, MOL. (S8)	21.77	300	NJ
30.		UNKNOWN	32.12	20	J

FORM I SV-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEYWEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/13/04
Analysis Date: 03/04/04
Report Date: 03/08/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-5DL
Client ID: G01-MW-07-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG6030
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		1.9	4.0	0.20	0.78	0.19
91-57-6	2-Methylnaphthalene		9.3	4.0	0.20	0.78	0.31
208-96-8	Acenaphthylene	U	0.78	4.0	0.20	0.78	0.19
83-32-9	Acenaphthene	J	0.66	4.0	0.20	0.78	0.31
86-73-7	Fluorene		0.94	4.0	0.20	0.78	0.23
85-01-8	Phenanthrene		1.6	4.0	0.20	0.78	0.31
120-12-7	Anthracene	U	0.78	4.0	0.20	0.78	0.31
206-44-0	Fluoranthene	U	0.78	4.0	0.20	0.78	0.43
129-00-0	Pyrene	U	0.78	4.0	0.20	0.78	0.35
56-55-3	Benzo(a)anthracene	U	0.78	4.0	0.20	0.78	0.47
218-01-9	Chrysene	U	0.78	4.0	0.20	0.78	0.27
205-99-2	Benzo(b)fluoranthene	U	0.78	4.0	0.20	0.78	0.35
207-08-9	Benzo(k)fluoranthene	U	0.78	4.0	0.20	0.78	0.31
50-32-8	Benzo(a)pyrene	U	0.78	4.0	0.20	0.78	0.35
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.78	4.0	0.20	0.78	0.39
53-70-3	Dibenzo(a,h)anthracene	U	0.78	4.0	0.20	0.78	0.58
191-24-2	Benzo(g,h,i)perylene	U	0.78	4.0	0.20	0.78	0.31
90-12-0	1-Methylnaphthalene		8.0	4.0	0.20	0.78	0.31
7297-45-2	2-Methylnaphthalene-d10		84%				
81103-79-9	Fluorene-d10		75%				
1718-52-1	Pyrene-d10		112%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/13/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-6
Client ID: G01-MW-07-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG6031
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	10	1.0	10	10	6
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	3
95-57-8	2-Chlorophenol	U	10	1.0	10	10	5
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	3
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	3
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	3
95-48-7	2-Methylphenol	U	10	1.0	10	10	5
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	10	1.0	10	10	2
106-44-5	4-Methylphenol	U	10	1.0	10	10	5
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	2
67-72-1	Hexachloroethane	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	2
78-59-1	Isophorone	U	10	1.0	10	10	2
88-75-5	2-Nitrophenol	U	10	1.0	10	10	6
105-67-9	2,4-Dimethylphenol	U	10	1.0	10	10	8
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	2
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	6
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	3
91-20-3	Naphthalene	U	10	1.0	10	10	3
106-47-8	4-Chloroaniline	U	10	1.0	10	10	4
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	4
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	6
91-57-6	2-Methylnaphthalene	J	10	1.0	10	10	5
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	2
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	7
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	7
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	3
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	3
208-96-8	Acenaphthylene	U	10	1.0	10	10	3
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	3
99-09-2	3-Nitroaniline	U	25	1.0	25	25	3
83-32-9	Acenaphthene	U	10	1.0	10	10	2
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
100-02-7	4-Nitrophenol	U	25	1.0	25	25	5
132-64-9	Dibenzofuran	U	10	1.0	10	10	3
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	4
84-66-2	Diethylphthalate	U	10	1.0	10	10	2
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	3
86-73-7	Fluorene	U	10	1.0	10	10	3
100-01-6	4-Nitroaniline	U	25	1.0	25	25	5
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	10
86-30-6	N-Nitrosodiphenylamine	U	10	1.0	10	10	8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/13/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-6
Client ID: G01-MW-07-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG6031
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	4
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	4
87-86-5	Pentachlorophenol	U	25	1.0	25	25	9
85-01-8	Phenanthrene	U	10	1.0	10	10	3
120-12-7	Anthracene	U	10	1.0	10	10	3
86-74-8	Carbazole	U	10	1.0	10	10	4
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	3
129-00-0	Pyrene	U	10	1.0	10	10	4
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	3
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	4
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	3
218-01-9	Chrysene	U	10	1.0	10	10	3
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	7
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	3
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	2
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	3
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	2
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	2
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	2
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	2
367-12-4	2-Fluorophenol		51%				
13127-88-3	Phenol-D6		41%				
4165-60-0	Nitrobenzene-D5		70%				
321-60-8	2-Fluorobiphenyl		* 89%				
118-79-6	2,4,6-Tribromophenol		93%				
1718-51-0	Terphenyl-D14		107%				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

G01-MW-07-0204

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Matrix: (soil/water) WATER Lab Sample ID: WU0346-6

Sample wt/vol: 1.030 (g/L) L Lab File ID: X4728

Level: (low/med) LOW Date Received: 02/07/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/13/04

Concentrated Extract Volume: 0.0010 (L) Date Analyzed: 03/11/04

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 13

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKANE	2.34	400	JB
2.		UNKNOWN	5.22	40	JB
3.		UNKNOWN	10.31	4	J
4.		UNKNOWN	11.48	6	J
5.		C11H10 ISOMER	13.26	7	J
6.		C12H12 ISOMER	14.37	5	J
7.		C12H12 ISOMER	14.52	9	J
8.		C12H12 ISOMER	14.71	10	J
9.		C12H12 ISOMER	14.96	6	J
10.		UNKNOWN	15.99	10	J
11.		C13H14 ISOMER	16.30	6	J
12.		C13H12 ISOMER	16.91	8	J
13.		UNKNOWN	22.26	4	J
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/13/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-6RA
Client ID: G01-MW-07-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG6031
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	10	1.0	10	10	6
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	3
95-57-8	2-Chlorophenol	U	10	1.0	10	10	5
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	3
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	3
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	3
95-48-7	2-Methylphenol	U	10	1.0	10	10	5
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	10	1.0	10	10	2
106-44-5	4-Methylphenol	U	10	1.0	10	10	5
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	2
67-72-1	Hexachloroethane	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	2
78-59-1	Isophorone	U	10	1.0	10	10	2
88-75-5	2-Nitrophenol	U	10	1.0	10	10	6
105-67-9	2,4-Dimethylphenol	U	10	1.0	10	10	8
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	2
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	6
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	3
91-20-3	Naphthalene	U	10	1.0	10	10	3
106-47-8	4-Chloroaniline	U	10	1.0	10	10	4
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	4
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	6
91-57-6	2-Methylnaphthalene	J	9	1.0	10	10	5
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	2
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	7
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	7
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	3
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	3
208-96-8	Acenaphthylene	U	10	1.0	10	10	3
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	3
99-09-2	3-Nitroaniline	U	25	1.0	25	25	3
83-32-9	Acenaphthene	U	10	1.0	10	10	2
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
100-02-7	4-Nitrophenol	U	25	1.0	25	25	5
132-64-9	Dibenzofuran	U	10	1.0	10	10	3
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	4
84-66-2	Diethylphthalate	U	10	1.0	10	10	2
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	3
86-73-7	Fluorene	U	10	1.0	10	10	3
100-01-6	4-Nitroaniline	U	25	1.0	25	25	5
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	10
86-30-6	N-Nitrosodiphenylamine	U	10	1.0	10	10	8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/13/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-6RA
Client ID: G01-MW-07-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG6031
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	4
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	4
87-86-5	Pentachlorophenol	U	25	1.0	25	25	9
85-01-8	Phenanthrene	U	10	1.0	10	10	3
120-12-7	Anthracene	U	10	1.0	10	10	3
86-74-8	Carbazole	U	10	1.0	10	10	4
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	3
129-00-0	Pyrene	U	10	1.0	10	10	4
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	3
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	4
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	3
218-01-9	Chrysene	U	10	1.0	10	10	3
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	7
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	3
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	2
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	3
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	2
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	2
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	2
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	2
367-12-4	2-Fluorophenol		53%				
13127-88-3	Phenol-D6		44%				
4165-60-0	Nitrobenzene-D5		67%				
321-60-8	2-Fluorobiphenyl		* 89%				
118-79-6	2,4,6-Tribromophenol		98%				
1718-51-0	Terphenyl-D14		95%				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

G01-MW-07-0204

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Matrix: (soil/water) WATER Lab Sample ID: WU0346-6RA

Sample wt/vol: 1.030 (g/L) L Lab File ID: X4732

Level: (low/med) LOW Date Received: 02/07/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/13/04

Concentrated Extract Volume: 0.0010 (L) Date Analyzed: 03/11/04

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKANE	2.33	400	JB
2.		UNKNOWN	5.22	40	JB
3.		C10H16 ISOMER	11.48	5	J
4.		C11H10 ISOMER	13.26	7	J
5.		C12H12 ISOMER	14.37	5	J
6.		C12H12 ISOMER	14.52	8	J
7.		C12H12 ISOMER	14.71	9	J
8.		C12H12 ISOMER	14.96	6	J
9.		UNKNOWN	16.00	10	J
10.		C13H14 ISOMER	16.31	8	J
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEYWEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/13/04
Analysis Date: 03/05/04
Report Date: 03/08/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-10DL2
Client ID: G01-MW-08-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG6030
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		96	100	0.20	19	4.8
91-57-6	2-Methylnaphthalene		160	100	0.20	19	7.7
208-96-8	Acenaphthylene	U	19	100	0.20	19	4.8
83-32-9	Acenaphthene	U	19	100	0.20	19	7.7
86-73-7	Fluorene	J	7.8	100	0.20	19	5.8
85-01-8	Phenanthrene	J	11	100	0.20	19	7.7
120-12-7	Anthracene	U	19	100	0.20	19	7.7
206-44-0	Fluoranthene	U	19	100	0.20	19	10
129-00-0	Pyrene	U	19	100	0.20	19	8.6
56-55-3	Benzo(a)anthracene	U	19	100	0.20	19	12
218-01-9	Chrysene	U	19	100	0.20	19	6.7
205-99-2	Benzo(b)fluoranthene	U	19	100	0.20	19	8.6
207-08-9	Benzo(k)fluoranthene	U	19	100	0.20	19	7.7
50-32-8	Benzo(a)pyrene	U	19	100	0.20	19	8.6
193-39-5	Indeno(1,2,3-cd)pyrene	U	19	100	0.20	19	9.6
53-70-3	Dibenzo(a,h)anthracene	U	19	100	0.20	19	14
191-24-2	Benzo(g,h,i)perylene	U	19	100	0.20	19	7.7
90-12-0	1-Methylnaphthalene		130	100	0.20	19	7.7
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEYWEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/13/04
Analysis Date: 03/05/04
Report Date: 03/08/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-8DL2
Client ID: G01-MW-09-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG6030
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		7.5	5.0	0.20	0.98	0.24
91-57-6	2-Methylnaphthalene		11	5.0	0.20	0.98	0.39
208-96-8	Acenaphthylene	U	0.98	5.0	0.20	0.98	0.24
83-32-9	Acenaphthene		1.0	5.0	0.20	0.98	0.39
86-73-7	Fluorene	J	0.91	5.0	0.20	0.98	0.29
85-01-8	Phenanthrene	J	0.68	5.0	0.20	0.98	0.39
120-12-7	Anthracene	U	0.98	5.0	0.20	0.98	0.39
206-44-0	Fluoranthene	U	0.98	5.0	0.20	0.98	0.54
129-00-0	Pyrene	U	0.98	5.0	0.20	0.98	0.44
56-55-3	Benzo(a)anthracene	U	0.98	5.0	0.20	0.98	0.59
218-01-9	Chrysene	U	0.98	5.0	0.20	0.98	0.34
205-99-2	Benzo(b)fluoranthene	U	0.98	5.0	0.20	0.98	0.44
207-08-9	Benzo(k)fluoranthene	U	0.98	5.0	0.20	0.98	0.39
50-32-8	Benzo(a)pyrene	U	0.98	5.0	0.20	0.98	0.44
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.98	5.0	0.20	0.98	0.49
53-70-3	Dibenzo(a,h)anthracene	U	0.98	5.0	0.20	0.98	0.74
191-24-2	Benzo(g,h,i)perylene	U	0.98	5.0	0.20	0.98	0.39
90-12-0	1-Methylnaphthalene		11	5.0	0.20	0.98	0.39
7297-45-2	2-Methylnaphthalene-d10		74%				
81103-79-9	Fluorene-d10		54%				
1718-52-1	Pyrene-d10		48%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEYWEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/13/04
Analysis Date: 03/05/04
Report Date: 03/08/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-7DL2
Client ID: G01-MW-10-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG6030
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		47	25	0.20	4.8	1.2
91-57-6	2-Methylnaphthalene		71	25	0.20	4.8	1.9
208-96-8	Acenaphthylene	U	4.8	25	0.20	4.8	1.2
83-32-9	Acenaphthene	J	3.3	25	0.20	4.8	1.9
86-73-7	Fluorene	J	4.2	25	0.20	4.8	1.4
85-01-8	Phenanthrene	J	3.6	25	0.20	4.8	1.9
120-12-7	Anthracene	U	4.8	25	0.20	4.8	1.9
206-44-0	Fluoranthene	U	4.8	25	0.20	4.8	2.7
129-00-0	Pyrene	U	4.8	25	0.20	4.8	2.2
56-55-3	Benzo(a)anthracene	U	4.8	25	0.20	4.8	2.9
218-01-9	Chrysene	U	4.8	25	0.20	4.8	1.7
205-99-2	Benzo(b)fluoranthene	U	4.8	25	0.20	4.8	2.2
207-08-9	Benzo(k)fluoranthene	U	4.8	25	0.20	4.8	1.9
50-32-8	Benzo(a)pyrene	U	4.8	25	0.20	4.8	2.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	4.8	25	0.20	4.8	2.4
53-70-3	Dibenzo(a,h)anthracene	U	4.8	25	0.20	4.8	3.6
191-24-2	Benzo(g,h,i)perylene	U	4.8	25	0.20	4.8	1.9
90-12-0	1-Methylnaphthalene		56	25	0.20	4.8	1.9
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEYWEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/13/04
Analysis Date: 03/06/04
Report Date: 03/08/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-1DL2
Client ID: G01-MW-11-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG6030
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		18	20	0.20	3.8	0.95
91-57-6	2-Methylnaphthalene		44	20	0.20	3.8	1.5
208-96-8	Acenaphthylene	U	3.8	20	0.20	3.8	0.95
83-32-9	Acenaphthene	J	3.4	20	0.20	3.8	1.5
86-73-7	Fluorene		4.3	20	0.20	3.8	1.1
85-01-8	Phenanthrene	J	3.6	20	0.20	3.8	1.5
120-12-7	Anthracene	U	3.8	20	0.20	3.8	1.5
206-44-0	Fluoranthene	U	3.8	20	0.20	3.8	2.1
129-00-0	Pyrene	U	3.8	20	0.20	3.8	1.7
56-55-3	Benzo(a)anthracene	U	3.8	20	0.20	3.8	2.3
218-01-9	Chrysene	U	3.8	20	0.20	3.8	1.3
205-99-2	Benzo(b)fluoranthene	U	3.8	20	0.20	3.8	1.7
207-08-9	Benzo(k)fluoranthene	U	3.8	20	0.20	3.8	1.5
50-32-3	Benzo(a)pyrene	U	3.8	20	0.20	3.8	1.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	3.8	20	0.20	3.8	1.9
53-70-3	Dibenzo(a,h)anthracene	U	3.8	20	0.20	3.8	2.8
191-24-2	Benzo(g,h,i)perylene	U	3.8	20	0.20	3.8	1.5
90-12-0	1-Methylnaphthalene		41	20	0.20	3.8	1.5
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/13/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-2
Client ID: G01-MW-11-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG6031
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	10	1.0	10	10	6
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	3
95-57-8	2-Chlorophenol	U	10	1.0	10	10	5
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	3
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	3
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	3
95-48-7	2-Methylphenol	U	10	1.0	10	10	5
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	10	1.0	10	10	2
106-44-5	4-Methylphenol	U	10	1.0	10	10	5
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	2
67-72-1	Hexachloroethane	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	2
78-59-1	Isophorone	U	10	1.0	10	10	2
88-75-5	2-Nitrophenol	U	10	1.0	10	10	5
105-67-9	2,4-Dimethylphenol	U	10	1.0	10	10	8
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	2
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	6
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	3
91-20-3	Naphthalene		14	1.0	10	10	2
106-47-8	4-Chloroaniline	U	10	1.0	10	10	4
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	4
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	6
91-57-6	2-Methylnaphthalene		35	1.0	10	10	4
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	2
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	7
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	7
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	3
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	3
208-96-8	Acenaphthylene	U	10	1.0	10	10	3
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	3
99-09-2	3-Nitroaniline	U	25	1.0	25	25	3
83-32-9	Acenaphthene	J	3	1.0	10	10	2
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
100-02-7	4-Nitrophenol	U	25	1.0	25	25	5
132-64-9	Dibenzofuran	U	10	1.0	10	10	3
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	4
84-66-2	Diethylphthalate	U	10	1.0	10	10	2
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	3
86-73-7	Fluorene	J	3	1.0	10	10	2
100-01-6	4-Nitroaniline	U	25	1.0	25	25	5
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	10
86-30-6	N-Nitrosodiphenylamine	U	10	1.0	10	10	8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/13/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-2
Client ID: G01-MW-11-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG6031
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	4
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	4
87-86-5	Pentachlorophenol	U	25	1.0	25	25	9
85-01-8	Phenanthrene	J	4	1.0	10	10	3
120-12-7	Anthracene	U	10	1.0	10	10	3
86-74-8	Carbazole	U	10	1.0	10	10	4
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	3
129-00-0	Pyrene	U	10	1.0	10	10	4
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	3
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	4
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	3
218-01-9	Chrysene	U	10	1.0	10	10	3
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	7
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	3
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	2
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	3
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	2
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	2
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	2
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	2
367-12-4	2-Fluorophenol		* 33%				
13127-88-3	Phenol-D6		25%				
4165-60-0	Nitrobenzene-D5		45%				
321-60-8	2-Fluorobiphenyl		57%				
118-79-6	2,4,6-Tribromophenol		96%				
1718-51-0	Terphenyl-D14		101%				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

G01-MW-11-0204

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Matrix: (soil/water) WATER Lab Sample ID: WU0346-2

Sample wt/vol: 1.050 (g/L) L Lab File ID: X4726

Level: (low/med) LOW Date Received: 02/07/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/13/04

Concentrated Extract Volume: 0.0010 (L) Date Analyzed: 03/11/04

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 11

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKANE	2.35	300	JB
2.		UNKNOWN	5.22	40	JB
3.		UNKNOWN	10.89	6	J
4.		C12H12 ISOMER	13.26	20	J
5.		C12H12 ISOMER	14.37	7	J
6.		C12H12 ISOMER	14.52	20	J
7.		C12H12 ISOMER	14.71	20	J
8.		C12H12 ISOMER	14.96	10	J
9.		C12H12 ISOMER	15.17	5	J
10.		UNKNOWN	15.79	20	J
11.		UNKNOWN	24.55	4	J
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/13/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-2RA
Client ID: G01-MW-11-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG6031
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	10	1.0	10	10	6
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	3
95-57-8	2-Chlorophenol	U	10	1.0	10	10	5
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	3
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	3
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	3
95-48-7	2-Methylphenol	U	10	1.0	10	10	5
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	10	1.0	10	10	2
106-44-5	4-Methylphenol	U	10	1.0	10	10	5
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	2
67-72-1	Hexachloroethane	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	2
78-59-1	Isophorone	U	10	1.0	10	10	2
88-75-5	2-Nitrophenol	U	10	1.0	10	10	6
105-67-9	2,4-Dimethylphenol	U	10	1.0	10	10	8
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	2
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	6
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	3
91-20-3	Naphthalene		13	1.0	10	10	3
106-47-8	4-Chloroaniline	U	10	1.0	10	10	4
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	4
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	6
91-57-6	2-Methylnaphthalene		35	1.0	10	10	5
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	2
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	7
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	7
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	3
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	3
208-96-8	Acenaphthylene	U	10	1.0	10	10	3
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	3
99-09-2	3-Nitroaniline	U	25	1.0	25	25	3
83-32-9	Acenaphthene	J	3	1.0	10	10	2
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
100-02-7	4-Nitrophenol	U	25	1.0	25	25	5
132-64-9	Dibenzofuran	U	10	1.0	10	10	3
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	4
84-66-2	Diethylphthalate	U	10	1.0	10	10	2
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	3
86-73-7	Fluorene	J	3	1.0	10	10	3
100-01-6	4-Nitroaniline	U	25	1.0	25	25	5
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	10
86-30-6	N-Nitrosodiphenylamine	U	10	1.0	10	10	8

Sample Data Summary A0000093

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/13/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-2RA
Client ID: G01-MW-11-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG6031
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	4
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	4
87-86-5	Pentachlorophenol	U	25	1.0	25	25	9
85-01-8	Phenanthrene	J	4	1.0	10	10	3
120-12-7	Anthracene	U	10	1.0	10	10	3
86-74-8	Carbazole	U	10	1.0	10	10	4
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	3
129-00-0	Pyrene	U	10	1.0	10	10	4
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	3
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	4
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	3
218-01-9	Chrysene	U	10	1.0	10	10	3
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	7
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	3
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	2
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	3
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	2
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	2
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	2
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	2
367-12-4	2-Fluorophenol		* 33%				
13127-88-3	Phenol-D6		23%				
4165-60-0	Nitrobenzene-D5		43%				
321-60-8	2-Fluorobiphenyl		58%				
118-79-6	2,4,6-Tribromophenol		84%				
1718-51-0	Terphenyl-D14		88%				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

G01-MW-11-0204

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Matrix: (soil/water) WATER Lab Sample ID: WU0346-2RA

Sample wt/vol: 1.030 (g/L) L Lab File ID: X4730

Level: (low/med) LOW Date Received: 02/07/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/13/04

Concentrated Extract Volume: 0.0010 (L) Date Analyzed: 03/11/04

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 12

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKANE	2.35	300	JB
2.		UNKNOWN	5.22	40	JB
3.		C10H14 ISOMER	9.90	4	J
4.		C10H14 ISOMER	10.89	6	J
5.		C11H10 ISOMER	13.26	20	J
6.		C12H12 ISOMER	14.37	8	J
7.		C12H12 ISOMER	14.52	20	J
8.		C12H12 ISOMER	14.71	20	J
9.		C12H12 ISOMER	14.97	10	J
10.		C12H12 ISOMER	15.17	6	J
11.		UNKNOWN	15.79	20	J
12.		UNKNOWN ALKANE	27.54	7	J
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEYWEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/13/04
Analysis Date: 03/05/04
Report Date: 03/08/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-9DL2
Client ID: G01-MW-12-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG6030
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		28	25	0.20	4.8	1.2
91-57-6	2-Methylnaphthalene		60	25	0.20	4.8	1.9
208-96-8	Acenaphthylene	U	4.8	25	0.20	4.8	1.2
83-32-9	Acenaphthene		5.3	25	0.20	4.8	1.9
86-73-7	Fluorene		6.7	25	0.20	4.8	1.4
85-01-8	Phenanthrene		5.1	25	0.20	4.8	1.9
120-12-7	Anthracene	U	4.8	25	0.20	4.8	1.9
206-44-0	Fluoranthene	U	4.8	25	0.20	4.8	2.6
129-00-0	Pyrene	U	4.8	25	0.20	4.8	2.2
56-55-3	Benzo(a)anthracene	U	4.8	25	0.20	4.8	2.9
218-01-9	Chrysene	U	4.8	25	0.20	4.8	1.7
205-99-2	Benzo(b)fluoranthene	U	4.8	25	0.20	4.8	2.2
207-08-9	Benzo(k)fluoranthene	U	4.8	25	0.20	4.8	1.9
50-32-8	Benzo(a)pyrene	U	4.8	25	0.20	4.8	2.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	4.8	25	0.20	4.8	2.4
53-70-3	Dibenzo(a,h)anthracene	U	4.8	25	0.20	4.8	3.6
191-24-2	Benzo(g,h,i)perylene	U	4.8	25	0.20	4.8	1.9
90-12-0	1-Methylnaphthalene		61	25	0.20	4.8	1.9
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

Sample Data Summary A0000228

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEYWEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/13/04
Analysis Date: 03/05/04
Report Date: 03/08/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-3DL
Client ID: KW-DUP-02-0204
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG6030
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		22	25	0.20	4.8	1.2
91-57-6	2-Methylnaphthalene		58	25	0.20	4.8	1.9
208-96-8	Acenaphthylene	U	4.8	25	0.20	4.8	1.2
83-32-9	Acenaphthene	J	3.4	25	0.20	4.8	1.9
86-73-7	Fluorene	J	4.0	25	0.20	4.8	1.4
85-01-8	Phenanthrene	J	4.8	25	0.20	4.8	1.9
120-12-7	Anthracene	U	4.8	25	0.20	4.8	1.9
206-44-0	Fluoranthene	U	4.8	25	0.20	4.8	2.7
129-00-0	Pyrene	U	4.8	25	0.20	4.8	2.2
56-55-3	Benzo(a)anthracene	U	4.8	25	0.20	4.8	2.9
218-01-9	Chrysene	U	4.8	25	0.20	4.8	1.7
205-99-2	Benzo(b)fluoranthene	U	4.8	25	0.20	4.8	2.2
207-08-9	Benzo(k)fluoranthene	U	4.8	25	0.20	4.8	1.9
50-32-8	Benzo(a)pyrene	U	4.8	25	0.20	4.8	2.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	4.8	25	0.20	4.8	2.4
53-70-3	Dibenzo(a,h)anthracene	U	4.8	25	0.20	4.8	3.6
191-24-2	Benzo(g,h,i)perylene	U	4.8	25	0.20	4.8	1.9
90-12-0	1-Methylnaphthalene		51	25	0.20	4.8	1.9
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/13/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-4
Client ID: KW-DUP-02-02~~04~~
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG6031
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	10	1.0	10	10	6
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	3
95-57-8	2-Chlorophenol	U	10	1.0	10	10	5
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	3
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	3
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	3
95-48-7	2-Methylphenol	U	10	1.0	10	10	5
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	10	1.0	10	10	2
106-44-5	4-Methylphenol	U	10	1.0	10	10	5
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	2
67-72-1	Hexachloroethane	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	2
78-59-1	Isophorone	U	10	1.0	10	10	2
88-75-5	2-Nitrophenol	U	10	1.0	10	10	6
105-67-9	2,4-Dimethylphenol	U	10	1.0	10	10	8
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	2
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	6
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	3
91-20-3	Naphthalene		20	1.0	10	10	3
106-47-8	4-Chloroaniline	U	10	1.0	10	10	4
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	4
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	6
91-57-6	2-Methylnaphthalene		47	1.0	10	10	5
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	2
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	7
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	7
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	3
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	3
208-96-8	Acenaphthylene	U	10	1.0	10	10	3
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	3
99-09-2	3-Nitroaniline	U	25	1.0	25	25	3
83-32-9	Acenaphthene	J	4	1.0	10	10	2
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
100-02-7	4-Nitrophenol	U	25	1.0	25	25	5
132-64-9	Dibenzofuran	U	10	1.0	10	10	3
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	4
84-66-2	Diethylphthalate	U	10	1.0	10	10	2
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	3
86-73-7	Fluorene	J	4	1.0	10	10	3
100-01-6	4-Nitroaniline	U	25	1.0	25	25	5
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	10
86-30-6	N-Nitrosodiphenylamine	U	10	1.0	10	10	8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/13/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-4
Client ID: KW-DUP-02-02~~04~~
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG6031
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	4
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	4
87-86-5	Pentachlorophenol	U	25	1.0	25	25	9
85-01-8	Phenanthrene	J	4	1.0	10	10	3
120-12-7	Anthracene	U	10	1.0	10	10	3
86-74-8	Carbazole	U	10	1.0	10	10	4
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	3
129-00-0	Pyrene	U	10	1.0	10	10	4
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	3
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	4
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	3
218-01-9	Chrysene	U	10	1.0	10	10	3
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	7
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	3
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	2
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	3
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	2
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	2
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	2
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	2
367-12-4	2-Fluorophenol		46%				
13127-88-3	Phenol-D6		39%				
4165-60-0	Nitrobenzene-D5		72%				
321-60-8	2-Fluorobiphenyl		* 93%				
118-79-6	2,4,6-Tribromophenol		101%				
1718-51-0	Terphenyl-D14		102%				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

KW-DUP-02-02404
3-12-04

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Matrix: (soil/water) WATER Lab Sample ID: WU0346-4

Sample wt/vol: 1.030 (g/L) L Lab File ID: X4727

Level: (low/med) LOW Date Received: 02/07/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/13/04

Concentrated Extract Volume: 0.0010 (L) Date Analyzed: 03/11/04

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 14

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKANE	2.36	500	JB
2.		UNKNOWN	5.22	50	JB
3.		UNKNOWN	9.91	4	J
4.		UNKNOWN	10.89	8	J
5.		C12H12 ISOMER	13.26	20	J
6.		C12H12 ISOMER	14.37	10	J
7.		C12H12 ISOMER	14.52	20	J
8.		C12H12 ISOMER	14.71	20	J
9.		C12H12 ISOMER	14.96	20	J
10.		C12H12 ISOMER	15.17	5	J
11.		C13H12 ISOMER	16.10	5	J
12.		C13H14 ISOMER	16.31	9	J
13.		UNKNOWN	18.32	5	J
14.		UNKNOWN	22.26	10	J
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
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27.					
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30.					

FORM I SV-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/13/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-4RA
Client ID: KW-DUP-02-02~~1~~04
SDG: CTO297-4 3.10.04
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG6031
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	10	1.0	10	10	6
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	3
95-57-8	2-Chlorophenol	U	10	1.0	10	10	5
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	3
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	3
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	3
95-48-7	2-Methylphenol	U	10	1.0	10	10	5
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	10	1.0	10	10	2
106-44-5	4-Methylphenol	U	10	1.0	10	10	5
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	2
67-72-1	Hexachloroethane	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	2
78-59-1	Isophorone	U	10	1.0	10	10	2
88-75-5	2-Nitrophenol	U	10	1.0	10	10	6
105-67-9	2,4-Dimethylphenol	U	10	1.0	10	10	8
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	2
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	6
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	3
91-20-3	Naphthalene		21	1.0	10	10	3
106-47-8	4-Chloroaniline	U	10	1.0	10	10	4
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	4
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	6
91-57-6	2-Methylnaphthalene		49	1.0	10	10	5
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	2
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	7
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	7
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	3
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	3
208-96-8	Acenaphthylene	U	10	1.0	10	10	3
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	3
99-09-2	3-Nitroaniline	U	25	1.0	25	25	3
83-32-9	Acenaphthene	J	4	1.0	10	10	2
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
100-02-7	4-Nitrophenol	U	25	1.0	25	25	5
132-64-9	Dibenzofuran	U	10	1.0	10	10	3
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	4
84-66-2	Diethylphthalate	U	10	1.0	10	10	2
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	3
86-73-7	Fluorene	J	4	1.0	10	10	3
100-01-6	4-Nitroaniline	U	25	1.0	25	25	5
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	10
86-30-6	N-Nitrosodiphenylamine	U	10	1.0	10	10	8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/13/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-4RA
Client ID: KW-DUP-02-02
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG6031
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	4
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	4
87-86-5	Pentachlorophenol	U	25	1.0	25	25	9
85-01-8	Phenanthrene	J	4	1.0	10	10	3
120-12-7	Anthracene	U	10	1.0	10	10	3
86-74-8	Carbazole	U	10	1.0	10	10	4
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	3
129-00-0	Pyrene	U	10	1.0	10	10	4
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	3
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	4
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	3
218-01-9	Chrysene	U	10	1.0	10	10	3
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	7
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	3
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	2
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	3
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	2
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	2
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	2
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	2
367-12-4	2-Fluorophenol		51%				
13127-88-3	Phenol-D6		40%				
4165-60-0	Nitrobenzene-D5		75%				
321-60-8	2-Fluorobiphenyl		* 92%				
118-79-6	2,4,6-Tribromophenol		103%				
1718-51-0	Terphenyl-D14		101%				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

KW-DUP-02-02[illegible]04
3.12.04

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Matrix: (soil/water) WATER Lab Sample ID: WU0346-4RA

Sample wt/vol: 1.030 (g/L) L Lab File ID: X4731

Level: (low/med) LOW Date Received: 02/07/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/13/04

Concentrated Extract Volume: 0.0010 (L) Date Analyzed: 03/11/04

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 15

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKANE	2.35	500	JB
2.		UNKNOWN	5.22	50	JB
3.		C10H14 ISOMER	9.91	5	J
4.		UNKNOWN	10.89	8	J
5.		UNKNOWN	13.26	20	J
6.		C12H12 ISOMER	14.37	10	J
7.		C12H12 ISOMER	14.52	20	J
8.		C12H12 ISOMER	14.71	30	J
9.		C12H12 ISOMER	14.97	20	J
10.		C12H12 ISOMER	15.17	8	J
11.		UNKNOWN	15.95	20	J
12.		C13H14 ISOMER	16.11	5	J
13.		C13H14 ISOMER	16.30	10	J
14.		UNKNOWN	18.32	7	J
15.		UNKNOWN	22.26	10	J
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/04/04
Received Date: 02/05/04
Extraction Date: 02/06/04
Analysis Date: 02/26/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-3
Client ID: G01-MW-01-0204
SDG: CTO297-4
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5894
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	510	1.0	500	510	290
	n-Triacontane-D62		70%				
	O-Terphenyl		85%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/04/04
Received Date: 02/05/04
Extraction Date: 02/06/04
Analysis Date: 02/26/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-2
Client ID: G01-MW-01A-0204
SDG: CTO297-4
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5894
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	510	1.0	500	510	290
	n-Triacontane-D62		79%				
	O-Terphenyl		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/04/04
Received Date: 02/05/04
Extraction Date: 02/06/04
Analysis Date: 02/26/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-5
Client ID: G01-MW-02-0204
SDG: CTO297-4
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5894
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		82%				
	O-Terphenyl		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/04/04
Received Date: 02/05/04
Extraction Date: 02/06/04
Analysis Date: 02/26/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-4
Client ID: G01-MW-03-0204
SDG: CTO297-4
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5894
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	J	300	1.0	500	500	270
	n-Triacontane-D62		74%				
	O-Terphenyl		87%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/04/04
Received Date: 02/05/04
Extraction Date: 02/06/04
Analysis Date: 02/26/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0318-6
Client ID: G01-MW-04-0204
SDG: CTO297-4
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5894
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		1000	1.0	500	500	280
	n-Triacontane-D62		72%				
	O-Terphenyl		* 81%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/05/04
Received Date: 02/06/04
Extraction Date: 02/06/04
Analysis Date: 02/26/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0334-2
Client ID: G01-MW-05-0204
SDG: CTO297-4
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5894
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		620	1.0	500	500	270
	n-Triacontane-D62		64%				
	O-Terphenyl		* 72%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/05/04
Received Date: 02/06/04
Extraction Date: 02/06/04
Analysis Date: 02/26/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0334-1
Client ID: G01-MW-06-0204
SDG: CTO297-4
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5894
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		5400	1.0	500	510	290
	n-Triacontane-D62		72%				
	O-Terphenyl		* 79%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/11/04
Analysis Date: 02/27/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-5
Client ID: G01-MW-07-0204
SDG: CTO297-4
Extracted by: JP
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5979
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		570	1.0	500	500	280
	n-Triacontane-D62		78%				
	O-Terphenyl		82%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/11/04
Analysis Date: 02/27/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-10
Client ID: G01-MW-08-0204
SDG: CTO297-4
Extracted by: JP
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5979
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		3100	1.0	500	500	270
	n-Triacontane-D62		98%				
	O-Terphenyl		104%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/11/04
Analysis Date: 02/27/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-8
Client ID: G01-MW-09-0204
SDG: CTO297-4
Extracted by: JP
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5979
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		1100	1.0	500	500	280
	n-Triacontane-D62		90%				
	O-Terphenyl		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/11/04
Analysis Date: 02/27/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-7
Client ID: G01-MW-10-0204
SDG: CTO297-4
Extracted by: JP
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5979
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		2200	1.0	500	500	280
	n-Triacontane-D62		90%				
	O-Terphenyl		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/11/04
Analysis Date: 02/26/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-1
Client ID: G01-MW-11-0204
SDG: CTO297-4
Extracted by: JP
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5979
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		1800	1.0	500	500	270
	n-Triacontane-D62		92%				
	O-Terphenyl		99%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/11/04
Analysis Date: 02/27/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-9
Client ID: G01-MW-12-0204
SDG: CTO297-4
Extracted by: JP
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5979
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		3200	1.0	500	500	270
	n-Triacontane-D62		83%				
	O-Terphenyl		86%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO297 NAS KEY WEST
PO No:
Sample Date: 02/06/04
Received Date: 02/07/04
Extraction Date: 02/11/04
Analysis Date: 02/27/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0346-3
Client ID: KW-DUP-02-0204
SDG: CTO297-4
Extracted by: JP
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5979
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		1700	1.0	500	500	270
	n-Triacontane-D62		95%				
	O-Terphenyl		99%				

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-01-0204

ID#: 0402100-02A

MODIFIED METHOD RSK-175 GC/FID

File Name:	021010	Date of Collection:	2/4/04
Dil. Factor:	1.00	Date of Analysis:	2/10/04 11:34 AM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	0.20
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

Container Type: VOA Vial-40 mL

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-01A-0204

ID#: 0402100-01A

MODIFIED METHOD RSK-175 GC/FID

File Name:	7021008	Date of Collection:	2/4/04
Dil. Factor:	1.00	Date of Analysis:	2/10/04 10:51 AM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	0.16
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

Container Type: VOA Vial-40 mL

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-02-0204

ID#: 0402100-04A

MODIFIED METHOD RSK-175 GC/FID

File Name: 0210f12	Date of Collection: 2/4/04
Dil. Factor: 1.00	Date of Analysis: 2/10/04 12:47 PM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	0.057
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

Container Type: VOA Vial-40 mL

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-03-0204

ID#: 0402100-03A

MODIFIED METHOD RSK-175 GC/FID

File Name:	702101	Date of Collection:	2/4/04
Dil. Factor:	1.00	Date of Analysis:	2/10/04 11:55 AM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	1.1
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

Container Type: VOA Vial-40 mL

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-04-0204

ID#: 0402100-05A

MODIFIED METHOD RSK-175 GC/FID

File Name:	040213	Date of Collection:	2/4/04
Dil. Factor:	1.00	Date of Analysis:	2/10/04 12:38 PM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	0.50
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

Container Type: VOA Vial-40 mL

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-05-0204

ID#: 0402144-02A

MODIFIED SW-846 METHOD 3810 GC/FID

File Name:	702s114	Date of Collection:	2/5/04
Dil. Factor:	1.00	Date of Analysis:	2/11/04 10:53 AM

Compound	Rpt. Limit (uG/L)	Amount (uG/L)
Methane	10	4400
Ethane	10	Not Detected
Ethene	10	Not Detected

Container Type: VOA Vial-40 mL

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-06-0204

ID#: 0402144-01A

MODIFIED SW-846 METHOD 3810 GC/FID

File Name:	702113	Date of Collection:	2/5/04
Dil. Factor:	1.00	Date of Analysis:	2/11/04 10:32 AM

Compound	Rpt. Limit (uG/L)	Amount (uG/L)
Methane	10	9100
Ethane	10	Not Detected
Ethene	10	Not Detected

Container Type: VOA Vial-40 mL

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-07-0204

ID#: 0402145-03A

MODIFIED SW-846 METHOD 3810 GC/FID

File Name:	702121.D	Date of Collection:	2/6/04
Dil. Factor:	1.00	Date of Analysis:	2/11/04 01:22 PM

Compound	Rpt. Limit (uG/L)	Amount (uG/L)
Methane	10	940
Ethane	10	Not Detected
Ethene	10	Not Detected

Container Type: VOA Vial-40 mL

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-08-0204

ID#: 0402145-07A

MODIFIED SW-846 METHOD 3810 GC/FID

File Name:	021125	Date of Collection:	2/6/04
Dil. Factor:	1.00	Date of Analysis:	2/11/04 02:48 PM

Compound	Rpt. Limit (uG/L)	Amount (uG/L)
Methane	10	2600
Ethane	10	Not Detected
Ethene	10	Not Detected

Container Type: VOA Vial-40 mL

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-09-0204

ID#: 0402145-05A

MODIFIED SW-846 METHOD 3810 GC/FID

File Name: 702123	Date of Collection: 2/6/04
Dil. Factor: 1.00	Date of Analysis: 2/11/04 12:05 PM

Compound	Rpt. Limit (uG/L)	Amount (uG/L)
Methane	10	3800
Ethane	10	Not Detected
Ethene	10	Not Detected

Container Type: VOA Vial-40 mL

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-10-0204

ID#: 0402145-04A

MODIFIED SW-846 METHOD 3810 GC/FID

File Name:	021122	Date of Collection:	2/6/04
Dil. Factor:	1.00	Date of Analysis:	2/11/04 05:24 PM

Compound	Rpt. Limit (uG/L)	Amount (uG/L)
Methane	10	2500
Ethane	10	Not Detected
Ethene	10	Not Detected

Container Type: VOA Vial-40 mL

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-12-0204

ID#: 0402145-06A

MODIFIED SW-846 METHOD 3810 GC/FID

File Name:	702124	Date of Collection:	2/6/04
Dil. Factor:	1.00	Date of Analysis:	2/11/04 02:26 PM

Compound	Rpt. Limit (uG/L)	Amount (uG/L)
Methane	10	4700
Ethane	10	Not Detected
Ethene	10	Not Detected

Container Type: VOA Vial-40 mL

AIR TOXICS LTD.

SAMPLE NAME: KW-Dup-02-0204

ID#: 0402145-02A

MODIFIED SW-846 METHOD 3810 GC/FID

File Name:	702l20	Date of Collection:	2/6/04
Dil. Factor:	1.00	Date of Analysis:	2/11/04 01:01 PM

Compound	Rpt. Limit (uG/L)	Amount (uG/L)
Methane	10	5500
Ethane	10	Not Detected
Ethene	10	Not Detected

Container Type: VOA Vial-40 mL

APPENDIX C

SUPPORT DOCUMENTATION

TETRA TECH NUS, INC.
CTO297 NAS KEY WEST
SDG: CTO297-4
WU0318, WU0334, WU0344,
WU0346, WU0347

KATAHDIN ANALYTICAL SERVICES, INC.
340 COUNTY ROAD 5
WESTBROOK, ME 04092

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NAS KEY WEST CTO 297
SDG: CTO297-4
TASK ORDER MANAGER: CHARLES BRYAN

Sample Receipt

The following samples were received on February 5, 6 and 7, 2004 were logged in under Katahdin Analytical Services work order numbers WU0318, WU0334, WU0344, WU0346 and WU0347 with a hardcopy due date of March 4, 2004.

KATAHDIN Sample No.	TTNUS Sample Identification
WU0318-1	KWTB-020404
WU0318-2	G01-MW-01A-0204
WU0318-3	G01-MW-01-0204
WU0318-4	G01-MW-03-0204
WU0318-5	G01-MW-02-0204
WU0318-6	G01-MW-04-0204
WU0334-1	G01-MW-06-0204
WU0334-2	G01-MW-05-0204
WU0334-3	TB-020504
WU0334-4	B01-MW-01-0204
WU0334-5	B01-MW-03-0204
WU0334-6	G01-MW-06-0204
WU0344-1	G01-MW-06-0204
WU0346-1	G01-MW-11-0204
WU0346-2	G01-MW-11-0204
WU0346-3	KW-DUP-02-0204
WU0346-4	KW-DUP-02-0204
WU0346-5	G01-MW-07-0204
WU0346-6	G01-MW-07-0204
WU0346-7	G01-MW-10-0204
WU0346-8	G01-MW-09-0204
WU0346-9	G01-MW-12-0204
WU0346-10	G01-MW-08-0204
WU0346-11	KWTB-020604
WU0347-1	G01-MW-11-0204
WU0347-2	KW-DUP-02-0204
WU0347-3	G01-MW-07-0204

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Organics Laboratory

The samples of SDG CTO297-4 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, Office of Solid Waste and Emergency Response, U.S. EPA and/or Method for Determination of Petroleum Range Organics (Method #FL-PRO), Florida Department of Environmental Protection, November 1, 1995, and/or "Methods for the Determination of Organic Compounds in Drinking Water", U.S. EPA, Environmental Monitoring and Support Laboratory - Cincinnati (September 1995), for the specific methods listed below or on the Report of Analysis. Some manual integrations may have been performed due to split peaks and/or corrected baselines. All have been flagged with a "M" (software-generated) on the pertinent quantitation report.

FL-PRO Analysis

Samples WU0318-6 and WU0334-1 and 2 had recoveries for the surrogate, o-terphenyl that were low and outside of the method acceptance limits. Since the recoveries for the second surrogate were acceptable, the samples were not reextracted.

8260 Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) and Matrix Spike Samples (MS and MSD's) are statistically derived. Katahdin standard operating procedure is to not take corrective action until greater than ten percent of the target analytes (with the exception of the common laboratory contaminants acetone and methylene chloride) in the LCS are outside of QC limits.

Some method blanks may have detected one or more target analytes above the MDL. Any of these analytes that were also detected in any of the associated samples were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

504 Analysis

Samples WU0334-1 and WU0346-8 were unpreserved samples. These samples were analyzed with other samples in an analytical sequence, which resulted in a loss of response of target analytes. The data for these two samples were reported since they were analyzed within hold time, and they were unpreserved. The remaining other samples were reextracted within hold time. Samples WU0334-1 and WU0346-8 were reextracted 7 and 4 days out of the unpreserved hold time, respectively but within the 14 day preserved hold time. Sample WU0346-8 and the laboratory method blank WG5985-1RA had low or high recoveries for the surrogate TCMX on both channels that are outside of laboratory established acceptance limits. The laboratory control samples WG5985-2 and 3 had a low spike recovery for the analyte EDB that is outside of method established limits on both channels. The closing calibration verification (CV)

standard (files 3UB1132 and 3UB2132) had low responses for TCMX and EDB on both channels, which resulted in %D's that were outside of the method acceptance limit of 30%. All samples were reextracted since these deviations are likely due to the instrument malfunction.

The closing CV (files 3UB1197 and 3UB2197) had high responses for the surrogate TCMX on both channels which resulted in %D's that was outside of the method acceptance limit of 30%. The sample results for the surrogate may be biased high.

The opening CV (file 3UB1222) had a high response for the surrogate TCMX on Channel A, which resulted in a %D that was outside of the method acceptance limit of 30%. The sample results for the surrogate may be biased high on channel A.

The laboratory method blank WG6134-1 and laboratory control samples WG6134-2 and 3 had high recoveries for the surrogate TCMX on both channels that are outside of laboratory established acceptance limits.

The laboratory control samples WG6134-2 and 3 have a high spike recovery for the analyte EDB that is outside of method nominal acceptance limits on both channels. Since a high recovery would indicate a high bias and the associated sample did not detect EDB, the sample was not reextracted.

8720C Analysis

The laboratory method blanks WG5942-1 and WG6031-1 had high recoveries for 2-fluorobiphenyl and/or 2,4,6-tribromophenol, which were outside the laboratory established acceptance limits. Since a high recovery would indicate a high bias and there were no target analytes detected above the MDL, the samples were not reanalyzed.

The LCSs WG5942-2 and WG6031-2 and the LCSDs WG5942-3 and WG6031-3 had high recoveries for the surrogates 2-fluorobiphenyl and/or 2,4,6-tribromophenol, which were outside the laboratory established acceptance limits. Since all of the spiked analytes were within the acceptance limits, the samples were not reanalyzed.

Samples WU0346-4 and 6 had high recoveries for the surrogate 2-fluorobiphenyl, which were outside the laboratory established acceptance limits. The samples were reanalyzed with similar results. The results of both analyses are reported

Samples WU0346-2 had a low recovery for the surrogate 2-fluorophenol, which was outside the laboratory established acceptance limits. The samples were reanalyzed with similar results. The results of both analyses are reported

The initial calibration analyzed on the X instrument had %RSD values for several analytes that exceeded the method acceptance limit of 15%. For these analytes, either a linear or quadratic model was used for quantitation instead of an average response factor. The target analyte bis(2-chloroethyl)ether failed for both the linear and quadratic models in the initial calibration curve due to the correlation coefficient being less than the method acceptance criteria of 0.990. This compound was calibrated using the average model. Since none of the associated samples detected this target analytes above the PQL, the sample was not reanalyzed.

The calibration verification standard (CV) (file X4718) had a high response for the calibration check compound (CCC) phenol, which resulted in a %D that was outside the method acceptance limit of 20%. Since a high response would indicate a high bias and the associated sample did not detect any analytes above the PQL, the sample was not reanalyzed.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. Katahdin standard operating procedure is not to take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory phthalate ester contaminants) in the LCS are outside of the QC limits.

8270C SIM Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The acceptance limits for the MS/MSD are for a short list of the spiked compounds. Katahdin standard operating procedure is not to take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory phthalate ester contaminants) in the LCS are outside of the QC limits.

The calibration verification standard (file X4606) had a high response for internal standard perylene-d12, which were high and resulted in a %D that was outside the method acceptance limits of -50% to +100% of the response of the mid-point standard level of the initial calibration. Since none of the associated samples detected any target analytes above the PQL that are quantitated against this internal standard, the samples were not reanalyzed.

Sample WU0334-1 had responses for the internal standards anthracene-d10, chrysene-d12 and perylene-d12, which were high and outside the method acceptance limits of –50% to +100% of the responses of the internal standards from the daily calibration verification standard. Also, the surrogate fluorene-d10 had a recovery that was low and outside of the laboratory established acceptance limits. This is likely due to matrix interference.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of Katahdin SDG CTO297-4 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Waste", SW-846, November 1986, Third Edition.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix Katahdin Sample Nos. WU0318-(2-6), WU0334-(1-2), and WU0346-(1,3,5,7-10) were digested for ICP analysis on 02/18/04 (QC Batch UB18ICW0) in accordance with USEPA Method 3010A.

ICP analyses of SDG CTO297-4 sample digestates were performed using a Thermo Jarrell Ash (TJA) 61E ICP spectrometer. All samples were analyzed within holding times and all analytical run QC criteria were met, with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question.

Matrix QC Summary

All of the recoveries for the matrix spike aliquots of Katahdin Sample No. WU0318-2 were within the laboratory's acceptance criteria (75% - 125% recovery of the added element, if the native concentration is less than four times the amount added) for lead.

The matrix spike duplicate precision analyses of Katahdin Sample No. WU0318-2 was within the laboratory's acceptance limit (<20% relative difference between duplicate matrix spiked aliquots) for lead.

The serial dilution analyses of Katahdin Sample No. WU0318-2 was within the laboratory's acceptance limit (<10% relative percent difference, if the concentration in the original sample is greater than 50 times the IDL) for lead.

Wet Chemistry Analysis

The samples of SDG CTO297-4 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for nitrate and sulfate were performed according to "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, 1979 Revised 1983, U.S. EPA.

All Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limits (MDL). Measured concentrations that fall between the MDL and Katahdin's Practical Quantitation Limit (PQL) are flagged "J". Measured concentrations that are below the MDL are flagged "U" and reported as "U PQL", where "PQL" is the numerical value of the Practical Quantitation Limit.

All analyses were performed within analytical hold times. All quality control criteria were met, with the following comments or exceptions:

The matrix spike recovery for sulfate (0%) in Katahdin Sample No. WU0346-1 is outside the laboratory's acceptance limits.

No other deviations were noted by the Wet Chemistry group.

Subcontracted Analysis

Analyses for Methane/Ethane/Ethene were performed by a subcontract laboratory. Please refer to the section of the data package titled Subcontracted Data.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager, Quality Assurance Officer, or the Data Management Supervisor as verified by the following signature.

María Crouch
03.12.04
María Crouch
Quality Assurance Officer

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
NTA	MG/L	G01-MW-07-0204	WU0346-5	NM	02/06/2004	02/07/2004	02/07/2004	1	0	1
NTA	MG/L	G01-MW-12-0204	WU0346-9	NM	02/06/2004	02/07/2004	02/07/2004	1	0	1
NTA	MG/L	KW-DUP-02-0204	WU0346-3	NM	02/06/2004	02/07/2004	02/07/2004	1	0	1
NTA	MG/L	G01-MW-11-0204	WU0346-1	NM	02/06/2004	02/07/2004	02/07/2004	1	0	1
NTA	MG/L	G01-MW-10-0204	WU0346-7	NM	02/06/2004	02/07/2004	02/07/2004	1	0	1
NTA	MG/L	G01-MW-08-0204	WU0346-10	NM	02/06/2004	02/07/2004	02/07/2004	1	0	1
NTA	MG/L	G01-MW-06-0204	WU0334-1	NM	02/05/2004	02/06/2004	02/06/2004	1	0	1
NTA	MG/L	G01-MW-05-0204	WU0334-2	NM	02/05/2004	02/06/2004	02/06/2004	1	0	1
NTA	MG/L	G01-MW-04-0204	WU0318-6	NM	02/04/2004	02/06/2004	02/06/2004	2	0	2
NTA	MG/L	G01-MW-03-0204	WU0318-4	NM	02/04/2004	02/06/2004	02/06/2004	2	0	2
NTA	MG/L	G01-MW-02-0204	WU0318-5	NM	02/04/2004	02/06/2004	02/06/2004	2	0	2
NTA	MG/L	G01-MW-01A-0204	WU0318-2	NM	02/04/2004	02/06/2004	02/06/2004	2	0	2
NTA	MG/L	G01-MW-01-0204	WU0318-3	NM	02/04/2004	02/06/2004	02/06/2004	2	0	2
NTA	MG/L	G01-MW-09-0204	WU0346-8	NM	02/06/2004	02/07/2004	02/07/2004	1	0	1
SO4	MG/L	G01-MW-08-0204	WU0346-10	NM	02/06/2004	02/24/2004	02/24/2004	18	0	18
SO4	MG/L	KW-DUP-02-0204	WU0346-3	NM	02/06/2004	02/24/2004	02/24/2004	18	0	18
SO4	MG/L	G01-MW-12-0204	WU0346-9	NM	02/06/2004	02/24/2004	02/24/2004	18	0	18
SO4	MG/L	G01-MW-11-0204	WU0346-1	NM	02/06/2004	02/24/2004	02/24/2004	18	0	18

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SO4	MG/L	G01-MW-09-0204	WU0346-8	NM	02/06/2004	02/24/2004	02/24/2004	18	0	18
SO4	MG/L	G01-MW-07-0204	WU0346-5	NM	02/06/2004	02/24/2004	02/24/2004	18	0	18
SO4	MG/L	G01-MW-06-0204	WU0334-1	NM	02/05/2004	02/24/2004	02/24/2004	19	0	19
SO4	MG/L	G01-MW-02-0204	WU0318-5	NM	02/04/2004	02/24/2004	02/24/2004	20	0	20
SO4	MG/L	G01-MW-10-0204	WU0346-7	NM	02/06/2004	02/24/2004	02/24/2004	18	0	18
SO4	MG/L	G01-MW-01-0204	WU0318-3	NM	02/04/2004	02/24/2004	02/24/2004	20	0	20
SO4	MG/L	G01-MW-04-0204	WU0318-6	NM	02/04/2004	02/24/2004	02/24/2004	20	0	20
SO4	MG/L	G01-MW-03-0204	WU0318-4	NM	02/04/2004	02/24/2004	02/24/2004	20	0	20
SO4	MG/L	G01-MW-05-0204	WU0334-2	NM	02/05/2004	02/24/2004	02/24/2004	19	0	19
SO4	MG/L	G01-MW-01A-0204	WU0318-2	NM	02/04/2004	02/24/2004	02/24/2004	20	0	20
OS	%	G01-MW-04-0204	WU0318-6	NM	02/04/2004	02/06/2004	03/02/2004	2	25	27
OS	%	G01-MW-03-0204	WU0318-4	NM	02/04/2004	02/06/2004	03/02/2004	2	25	27
OS	%	G01-MW-06-0204	WU0334-1	NM	02/05/2004	02/09/2004	03/03/2004	4	23	27
OS	%	G01-MW-05-0204	WU0334-2	NM	02/05/2004	02/09/2004	03/03/2004	4	23	27
OS	%	G01-MW-02-0204	WU0318-5	NM	02/04/2004	02/06/2004	03/02/2004	2	25	27
OS	%	G01-MW-08-0204DL2	WU0346-10DL2	NM	02/06/2004	02/13/2004	03/05/2004	7	21	28
OS	%	G01-MW-11-0204DL2	WU0346-1DL2	NM	02/06/2004	02/13/2004	03/06/2004	7	22	29
OS	%	G01-MW-01-0204RA	WU0318-3RA	NM	02/04/2004	02/06/2004	03/03/2004	2	26	28

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	%	G01-MW-11-0204	WU0346-2	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	%	G01-MW-06-0204RA	WU0334-6RA	NM	02/05/2004	02/09/2004	03/11/2004	4	31	35
OS	%	G01-MW-07-0204	WU0346-6	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	%	B01-MW-03-0204	WU0334-5	NM	02/05/2004	02/09/2004	03/03/2004	4	23	27
OS	%	B01-MW-01-0204	WU0334-4	NM	02/05/2004	02/09/2004	03/03/2004	4	23	27
OS	%	G01-MW-09-0204DL2	WU0346-8DL2	NM	02/06/2004	02/13/2004	03/05/2004	7	21	28
OS	%	G01-MW-11-0204RA	WU0346-2RA	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	%	G01-MW-12-0204DL2	WU0346-9DL2	NM	02/06/2004	02/13/2004	03/05/2004	7	21	28
OS	%	KW-DUP-02-0204	WU0346-4	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	%	KW-DUP-02-0204RA	WU0346-4RA	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	%	G01-MW-10-0204DL2	WU0346-7DL2	NM	02/06/2004	02/13/2004	03/05/2004	7	21	28
OS	%	G01-MW-07-0204RA	WU0346-6RA	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	%	G01-MW-01A-0204	WU0318-2	NM	02/04/2004	02/06/2004	03/02/2004	2	25	27
OS	UG/L	G01-MW-09-0204DL2	WU0346-8DL2	NM	02/06/2004	02/13/2004	03/05/2004	7	21	28
OS	UG/L	B01-MW-03-0204	WU0334-5	NM	02/05/2004	02/09/2004	03/03/2004	4	23	27
OS	UG/L	G01-MW-01-0204RA	WU0318-3RA	NM	02/04/2004	02/06/2004	03/03/2004	2	26	28
OS	UG/L	G01-MW-02-0204	WU0318-5	NM	02/04/2004	02/06/2004	03/02/2004	2	25	27
OS	UG/L	G01-MW-04-0204	WU0318-6	NM	02/04/2004	02/06/2004	03/02/2004	2	25	27

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	UG/L	G01-MW-05-0204	WU0334-2	NM	02/05/2004	02/09/2004	03/03/2004	4	23	27
OS	UG/L	G01-MW-06-0204	WU0334-1	NM	02/05/2004	02/09/2004	03/03/2004	4	23	27
OS	UG/L	G01-MW-06-0204RA	WU0334-6RA	NM	02/05/2004	02/09/2004	03/11/2004	4	31	35
OS	UG/L	G01-MW-07-0204	WU0346-6	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	UG/L	B01-MW-01-0204	WU0334-4	NM	02/05/2004	02/09/2004	03/03/2004	4	23	27
OS	UG/L	G01-MW-08-0204DL2	WU0346-10DL2	NM	02/06/2004	02/13/2004	03/05/2004	7	21	28
OS	UG/L	G01-MW-01A-0204	WU0318-2	NM	02/04/2004	02/06/2004	03/02/2004	2	25	27
OS	UG/L	G01-MW-10-0204DL2	WU0346-7DL2	NM	02/06/2004	02/13/2004	03/05/2004	7	21	28
OS	UG/L	G01-MW-11-0204	WU0346-2	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	UG/L	G01-MW-11-0204DL2	WU0346-1DL2	NM	02/06/2004	02/13/2004	03/06/2004	7	22	29
OS	UG/L	G01-MW-11-0204RA	WU0346-2RA	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	UG/L	G01-MW-12-0204DL2	WU0346-9DL2	NM	02/06/2004	02/13/2004	03/05/2004	7	21	28
OS	UG/L	KW-DUP-02-0204	WU0346-4	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	UG/L	KW-DUP-02-0204RA	WU0346-4RA	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	UG/L	G01-MW-07-0204RA	WU0346-6RA	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	UG/L	G01-MW-03-0204	WU0318-4	NM	02/04/2004	02/06/2004	03/02/2004	2	25	27
EDB	%	G01-MW-03-0204	WU0318-4RE	NM	02/04/2004	02/17/2004	02/17/2004	13	0	13
EDB	%	G01-MW-01-0204	WU0318-3RE	NM	02/04/2004	02/17/2004	02/17/2004	13	0	13

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
EDB	%	G01-MW-02-0204	WU0318-5RE	NM	02/04/2004	02/17/2004	02/17/2004	13	0	13
EDB	%	G01-MW-04-0204	WU0318-6RE	NM	02/04/2004	02/17/2004	02/17/2004	13	0	13
EDB	%	G01-MW-05-0204	WU0334-2RE	NM	02/05/2004	02/17/2004	02/17/2004	12	0	12
EDB	%	G01-MW-06-0204	WU0334-1	NM	02/05/2004	02/11/2004	02/12/2004	6	1	7
EDB	%	G01-MW-06-0204	WU0334-1RE2	NM	02/05/2004	02/19/2004	02/19/2004	14	0	14
EDB	%	G01-MW-07-0204	WU0346-5RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	%	G01-MW-09-0204	WU0346-8	NM	02/06/2004	02/11/2004	02/12/2004	5	1	6
EDB	%	G01-MW-09-0204	WU0346-8RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	%	G01-MW-10-0204	WU0346-7RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	%	G01-MW-11-0204	WU0346-1RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	%	G01-MW-12-0204	WU0346-9RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	%	KW-DUP-02-0204	WU0346-3RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	%	G01-MW-08-0204	WU0346-10RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	%	G01-MW-01A-0204	WU0318-2RE	NM	02/04/2004	02/17/2004	02/17/2004	13	0	13
EDB	UG/L	G01-MW-12-0204	WU0346-9RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	UG/L	G01-MW-04-0204	WU0318-6RE	NM	02/04/2004	02/17/2004	02/17/2004	13	0	13
EDB	UG/L	G01-MW-05-0204	WU0334-2RE	NM	02/05/2004	02/17/2004	02/17/2004	12	0	12
EDB	UG/L	G01-MW-06-0204	WU0334-1	NM	02/05/2004	02/11/2004	02/12/2004	6	1	7

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
EDB	UG/L	G01-MW-06-0204	WU0334-1RE2	NM	02/05/2004	02/19/2004	02/19/2004	14	0	14
EDB	UG/L	G01-MW-07-0204	WU0346-5RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	UG/L	G01-MW-08-0204	WU0346-10RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	UG/L	G01-MW-09-0204	WU0346-8	NM	02/06/2004	02/11/2004	02/12/2004	5	1	6
EDB	UG/L	G01-MW-09-0204	WU0346-8RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	UG/L	G01-MW-01A-0204	WU0318-2RE	NM	02/04/2004	02/17/2004	02/17/2004	13	0	13
EDB	UG/L	KW-DUP-02-0204	WU0346-3RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	UG/L	G01-MW-03-0204	WU0318-4RE	NM	02/04/2004	02/17/2004	02/17/2004	13	0	13
EDB	UG/L	G01-MW-11-0204	WU0346-1RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	UG/L	G01-MW-10-0204	WU0346-7RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	UG/L	G01-MW-01-0204	WU0318-3RE	NM	02/04/2004	02/17/2004	02/17/2004	13	0	13
EDB	UG/L	G01-MW-02-0204	WU0318-5RE	NM	02/04/2004	02/17/2004	02/17/2004	13	0	13
OV	%	KW-DUP-02-0204	WU0347-2	NM	02/06/2004	02/13/2004	02/13/2004	7	0	7
OV	%	G01-MW-01-0204	WU0318-3	NM	02/04/2004	02/12/2004	02/12/2004	8	0	8
OV	%	G01-MW-01A-0204	WU0318-2	NM	02/04/2004	02/12/2004	02/12/2004	8	0	8
OV	%	G01-MW-02-0204	WU0318-5	NM	02/04/2004	02/12/2004	02/12/2004	8	0	8
OV	%	KWTB-020404	WU0318-1	NM	01/26/2004	02/12/2004	02/12/2004	17	0	17
OV	%	TB-020504	WU0334-3	NM	01/26/2004	02/10/2004	02/10/2004	15	0	15

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	G01-MW-12-0204	WU0346-9	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
OV	%	G01-MW-11-0204	WU0347-1	NM	02/06/2004	02/13/2004	02/13/2004	7	0	7
OV	%	G01-MW-10-0204	WU0346-7	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
OV	%	G01-MW-09-0204	WU0346-8	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
OV	%	G01-MW-08-0204	WU0346-10	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
OV	%	G01-MW-03-0204	WU0318-4	NM	02/04/2004	02/12/2004	02/12/2004	8	0	8
OV	%	G01-MW-07-0204	WU0347-3	NM	02/06/2004	02/13/2004	02/13/2004	7	0	7
OV	%	G01-MW-06-0204	WU0344-1	NM	02/05/2004	02/11/2004	02/11/2004	6	0	6
OV	%	G01-MW-05-0204	WU0334-2	NM	02/05/2004	02/10/2004	02/10/2004	5	0	5
OV	%	G01-MW-04-0204	WU0318-6	NM	02/04/2004	02/12/2004	02/12/2004	8	0	8
OV	%	KWTB-020604	WU0346-11	NM	01/26/2004	02/11/2004	02/11/2004	16	0	16
OV	UG/L	G01-MW-07-0204	WU0347-3	NM	02/06/2004	02/13/2004	02/13/2004	7	0	7
OV	UG/L	G01-MW-11-0204	WU0347-1	NM	02/06/2004	02/13/2004	02/13/2004	7	0	7
OV	UG/L	G01-MW-10-0204	WU0346-7	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
OV	UG/L	G01-MW-09-0204	WU0346-8	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
OV	UG/L	G01-MW-08-0204	WU0346-10	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
OV	UG/L	G01-MW-06-0204	WU0344-1	NM	02/05/2004	02/11/2004	02/11/2004	6	0	6
OV	UG/L	G01-MW-05-0204	WU0334-2	NM	02/05/2004	02/10/2004	02/10/2004	5	0	5

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	UG/L	G01-MW-04-0204	WU0318-6	NM	02/04/2004	02/12/2004	02/12/2004	8	0	8
OV	UG/L	G01-MW-03-0204	WU0318-4	NM	02/04/2004	02/12/2004	02/12/2004	8	0	8
OV	UG/L	G01-MW-02-0204	WU0318-5	NM	02/04/2004	02/12/2004	02/12/2004	8	0	8
OV	UG/L	G01-MW-12-0204	WU0346-9	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
OV	UG/L	G01-MW-01-0204	WU0318-3	NM	02/04/2004	02/12/2004	02/12/2004	8	0	8
OV	UG/L	TB-020504	WU0334-3	NM	01/26/2004	02/10/2004	02/10/2004	15	0	15
OV	UG/L	G01-MW-01A-0204	WU0318-2	NM	02/04/2004	02/12/2004	02/12/2004	8	0	8
OV	UG/L	KWTB-020404	WU0318-1	NM	01/26/2004	02/12/2004	02/12/2004	17	0	17
OV	UG/L	KWTB-020604	WU0346-11	NM	01/26/2004	02/11/2004	02/11/2004	16	0	16
OV	UG/L	KW-DUP-02-0204	WU0347-2	NM	02/06/2004	02/13/2004	02/13/2004	7	0	7
ETHA	UG/L	G01-MW-12-0204	0402145-06A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHA	UG/L	KW-DUP-02-0204	0402145-02A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHA	UG/L	G01-MW-11-0204	0402145-01A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHA	UG/L	G01-MW-05-0204	0402144-02A	NM	02/05/2004	02/11/2004	02/11/2004	6	0	6
ETHA	UG/L	G01-MW-06-0204	0402144-01A	NM	02/05/2004	02/11/2004	02/11/2004	6	0	6
ETHA	UG/L	G01-MW-08-0204	0402145-07A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHA	UG/L	G01-MW-09-0204	0402145-05A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHA	UG/L	G01-MW-10-0204	0402145-04A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
ETHA	UG/L	G01-MW-07-0204	0402145-03A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHA	UG/ML	G01-MW-01A-0204	0402100-01A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
ETHA	UG/ML	G01-MW-04-0204	0402100-05A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
ETHA	UG/ML	G01-MW-02-0204	0402100-04A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
ETHA	UG/ML	G01-MW-01-0204	0402100-02A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
ETHA	UG/ML	G01-MW-03-0204	0402100-03A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
ETHE	UG/L	G01-MW-11-0204	0402145-01A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHE	UG/L	G01-MW-10-0204	0402145-04A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHE	UG/L	G01-MW-12-0204	0402145-06A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHE	UG/L	KW-DUP-02-0204	0402145-02A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHE	UG/L	G01-MW-05-0204	0402144-02A	NM	02/05/2004	02/11/2004	02/11/2004	6	0	6
ETHE	UG/L	G01-MW-06-0204	0402144-01A	NM	02/05/2004	02/11/2004	02/11/2004	6	0	6
ETHE	UG/L	G01-MW-07-0204	0402145-03A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHE	UG/L	G01-MW-08-0204	0402145-07A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHE	UG/L	G01-MW-09-0204	0402145-05A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHE	UG/ML	G01-MW-01A-0204	0402100-01A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
ETHE	UG/ML	G01-MW-04-0204	0402100-05A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
ETHE	UG/ML	G01-MW-02-0204	0402100-04A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
ETHE	UG/ML	G01-MW-01-0204	0402100-02A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
ETHE	UG/ML	G01-MW-03-0204	0402100-03A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
METH	UG/L	G01-MW-09-0204	0402145-05A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
METH	UG/L	G01-MW-08-0204	0402145-07A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
METH	UG/L	G01-MW-07-0204	0402145-03A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
METH	UG/L	G01-MW-06-0204	0402144-01A	NM	02/05/2004	02/11/2004	02/11/2004	6	0	6
METH	UG/L	G01-MW-05-0204	0402144-02A	NM	02/05/2004	02/11/2004	02/11/2004	6	0	6
METH	UG/L	G01-MW-11-0204	0402145-01A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
METH	UG/L	G01-MW-12-0204	0402145-06A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
METH	UG/L	G01-MW-10-0204	0402145-04A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
METH	UG/L	KW-DUP-02-0204	0402145-02A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
METH	UG/ML	G01-MW-04-0204	0402100-05A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
METH	UG/ML	G01-MW-01-0204	0402100-02A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
METH	UG/ML	G01-MW-01A-0204	0402100-01A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
METH	UG/ML	G01-MW-03-0204	0402100-03A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
METH	UG/ML	G01-MW-02-0204	0402100-04A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
TPH	%	G01-MW-12-0204	WU0346-9	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	%	G01-MW-06-0204	WU0334-1	NM	02/05/2004	02/06/2004	02/26/2004	1	20	21

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TPH	%	KW-DUP-02-0204	WU0346-3	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	%	G01-MW-11-0204	WU0346-1	NM	02/06/2004	02/11/2004	02/26/2004	5	15	20
TPH	%	G01-MW-10-0204	WU0346-7	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	%	G01-MW-09-0204	WU0346-8	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	%	G01-MW-07-0204	WU0346-5	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	%	G01-MW-05-0204	WU0334-2	NM	02/05/2004	02/06/2004	02/26/2004	1	20	21
TPH	%	G01-MW-04-0204	WU0318-6	NM	02/04/2004	02/06/2004	02/26/2004	2	20	22
TPH	%	G01-MW-03-0204	WU0318-4	NM	02/04/2004	02/06/2004	02/26/2004	2	20	22
TPH	%	G01-MW-02-0204	WU0318-5	NM	02/04/2004	02/06/2004	02/26/2004	2	20	22
TPH	%	G01-MW-01A-0204	WU0318-2	NM	02/04/2004	02/06/2004	02/26/2004	2	20	22
TPH	%	G01-MW-01-0204	WU0318-3	NM	02/04/2004	02/06/2004	02/26/2004	2	20	22
TPH	%	G01-MW-08-0204	WU0346-10	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	UG/L	G01-MW-06-0204	WU0334-1	NM	02/05/2004	02/06/2004	02/26/2004	1	20	21
TPH	UG/L	G01-MW-01-0204	WU0318-3	NM	02/04/2004	02/06/2004	02/26/2004	2	20	22
TPH	UG/L	G01-MW-01A-0204	WU0318-2	NM	02/04/2004	02/06/2004	02/26/2004	2	20	22
TPH	UG/L	G01-MW-02-0204	WU0318-5	NM	02/04/2004	02/06/2004	02/26/2004	2	20	22
TPH	UG/L	G01-MW-03-0204	WU0318-4	NM	02/04/2004	02/06/2004	02/26/2004	2	20	22
TPH	UG/L	G01-MW-05-0204	WU0334-2	NM	02/05/2004	02/06/2004	02/26/2004	1	20	21

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TPH	UG/L	G01-MW-07-0204	WU0346-5	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	UG/L	G01-MW-08-0204	WU0346-10	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	UG/L	G01-MW-09-0204	WU0346-8	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	UG/L	G01-MW-10-0204	WU0346-7	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	UG/L	G01-MW-11-0204	WU0346-1	NM	02/06/2004	02/11/2004	02/26/2004	5	15	20
TPH	UG/L	G01-MW-12-0204	WU0346-9	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	UG/L	KW-DUP-02-0204	WU0346-3	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	UG/L	G01-MW-04-0204	WU0318-6	NM	02/04/2004	02/06/2004	02/26/2004	2	20	22

WW0318

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 3883 | **PAGE** 1 **OF** 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 318	NAS Key West	Chuck Bryan	803-649-7963	Katahdin - Andrea Colby
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS**
Emily McRee, Ben Cole		Emily McRee	(786) 295-7331	340 County Rd. No. 5
		CARRIER/WAYBILL NUMBER		**CITY, STATE**
		834182781613		Westbrook, ME 04092

STANDARD TAT ☒ RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: PP VOHs + BTEX, MTBE	PAH (include 1-methylnaph & 2-methylnaph)	TRPH	EDB	Methane	Lead	Nitrate + Sulfate	COMMENTS
									G		HCl	—	HCl	HCl	HCl	HNO3	—	
1/26	0950	KWTB-020404	—	—	—	QC	G	2	2									
2/4	1015	G01-MW-01A-0204	G01-MW-01A	—	—	GW	G	13	3		2	2	2	2	1	1		
2/4	1210	G01-MW-01-0204	G01-MW-01	—	—	GW	G	13	3		2	2	2	2	1	1		
2/4	1005	G01-MW-03-0204	G01-MW-03	—	—	GW	G	13	3		2	2	2	2	1	1		
2/4	1510	G01-MW-02-0204	G01-MW-02	—	—	GW	G	13	3		2	2	2	2	1	1		
2/4	1515	G01-MW-04-0204	G01-MW-04	—	—	GW	G	13	3		2	2	2	2	1	1		

1. RELINQUISHED BY: Emily McRee	DATE: 2/4/04	TIME: 1700	1. RECEIVED BY: [signature]	DATE: 2/5/04	TIME: 0920
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

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000021

WW0334 WW0344

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 3884 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 318	NAS Key West	Chuck Bryan	803-649-7963x345	Katahdin - Andrea Colby
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
Emily McRee		Emily McRee	786-295-7331	340 County Rd. No.5
		CARRIER/WAYBILL NUMBER		CITY, STATE
		834182781624		Westbrook, ME 04092

STANDARD TAT [X]
RUSH TAT [ ]
[ ] 24 hr. [ ] 48 hr. [ ] 72 hr. [ ] 7 day [ ] 14 day

DATE (YEAR 2004)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: PPL VOHs + BTEX MTBE	PAH + 1-,2-methyl-naphthalene	TPH	EDB	Nitrate+Sulfate	Methane	Lead	Arsenic, Cad., Chrom., Lead	COMMENTS
		CONTAINER TYPE PLASTIC (P) or GLASS (G)							G	G	G	G	P	G	P	P	
		PRESERVATIVE USED							HCl	/	HCl	HCl	/	HCl	HNO_3	HNO_3	
2/5	1000	G01-MW-06-0204	G01-MW-06	—		GW	G	13	3	2	2	2	1	2		1	Rinsed HCl in VOA vials (this sam only
1/26	0950	TB-020504		—		QC	G	2	2								
2/5	0930	G01-MW-05-0204	G01-MW-05	—		GW	G	13	3	2	2	2	1	2	1		
2/5	1450	B01-MW-01-0204	B01-MW-01	—		GW	6	2		2							
2/5	1355	B01-MW-03-0204	B01-MW-03	—		GW	6	6		6							MS/MSD

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY Emily McRee	4/5/04	1600	1. RECEIVED BY	2-6-04	1035
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS
Note: Sample G01-MW-06-0204 contains a small amount of product!! Please report 8260+8270 TICs for this sample only.

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

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G000023

WW0346 Cooler: TT#1

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 3831 | **PAGE** 1 **OF** 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 318	NAS Key West	Chuck Bryan	803-649-7963x344	Katahdin - Andrea Colby
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
Emily McRee		Emily McRee	780-295-7331	340 County Rd. No.5
		CARRIER/WAYBILL NUMBER		CITY, STATE
		834182781637 5		Westbrook, ME 04092

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2004)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: BTEX + MTBE	EDB	Methane	PAH + 1-methyl-naphthalene, 2-methyl-naphthalene	TRPH	Nitrate + Sulfate	Arsenic, Cadmium, Chromium, Lead	Lead	COMMENTS
		CONTAINER TYPE PLASTIC (P) or GLASS (G)							G	G	G	G	G	P	P	P	
		PRESERVATIVE USED							HCl	HCl	HCl	—	HCl	—	HNO_3	HNO_3	
2/6	1000	G01-MN-110204	G01-MW-11	—		GW	G	13	3	2	2	2	2	1	1		Report Organic TICs
2/6	0000	KW-DUP-02-0204		—		GW	G	13	3	2	2	2	2	1	1		Report Organic TICs
2/6	1025	G01-MW-10-0204	G01-MW-10	—		GW	G	13	3	2	2	2	2	1		1	
2/6	1240	G01-MW-09-0204	G01-MW-09	—		GW	G	13	3	2	2	2	2	1		1	VOC vials not preserved
2/6	1330	G01-MW-12-0204	G01-MW-12	—		GW	G	13	3	2	2	2	2	1		1	
1/26	0950	RNTB-020604		—		QC	G	2	2								
2/6	1510	G01-MW-07-0204	G01-MW-07	—		GW	G	13	3	2	2	2	2	1	1		Report Organic TICs
2/6	1605	G01-MW-08-0204	G01-MW-08	—		GW	G	13	3	2	2	2	2	1		1	

1. RELINQUISHED BY: Emily McRee	DATE: 2/6/04	TIME: 1745	1. RECEIVED BY: Fed Ex	DATE	TIME
2. RELINQUISHED BY: Fed Ex	DATE: 02/07/04	TIME: 10:15	2. RECEIVED BY: G. Brewer	DATE: 02/07/04	TIME: 10:15
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

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FORM NO. TtNUS-001

000034

HOLD TIME

SDG 2974

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	G01-MW-10-0204	WU0346-007	NM	02/06/2004	02/18/2004	02/24/2004	12	6	18
M	UG/L	G01-MW-01-0204	WU0318-003	NM	02/04/2004	02/18/2004	02/25/2004	14	7	21
M	UG/L	G01-MW-01A-0204	WU0318-002	NM	02/04/2004	02/18/2004	02/25/2004	14	7	21
M	UG/L	G01-MW-02-0204	WU0318-005	NM	02/04/2004	02/18/2004	02/25/2004	14	7	21
M	UG/L	G01-MW-03-0204	WU0318-004	NM	02/04/2004	02/18/2004	02/25/2004	14	7	21
M	UG/L	G01-MW-04-0204	WU0318-006	NM	02/04/2004	02/18/2004	02/25/2004	14	7	21
M	UG/L	G01-MW-05-0204	WU0334-002	NM	02/05/2004	02/18/2004	02/24/2004	13	6	19
M	UG/L	G01-MW-06-0204	WU0334-001	NM	02/05/2004	02/18/2004	02/24/2004	13	6	19
M	UG/L	G01-MW-07-0204	WU0346-005	NM	02/06/2004	02/18/2004	02/24/2004	12	6	18
M	UG/L	G01-MW-07-0204	WU0346-005	NM	02/06/2004	02/18/2004	02/25/2004	12	7	19
M	UG/L	G01-MW-09-0204	WU0346-008	NM	02/06/2004	02/18/2004	02/25/2004	12	7	19
M	UG/L	G01-MW-11-0204	WU0346-001	NM	02/06/2004	02/18/2004	02/24/2004	12	6	18
M	UG/L	G01-MW-12-0204	WU0346-009	NM	02/06/2004	02/18/2004	02/24/2004	12	6	18
M	UG/L	KW-DUP-02-0204	WU0346-003	NM	02/06/2004	02/18/2004	02/24/2004	12	6	18
M	UG/L	G01-MW-08-0204	WU0346-010	NM	02/06/2004	02/18/2004	02/24/2004	12	6	18

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/10/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WG5962-2
Client ID: WG5962-Blank
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5962
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	1	1.0	1	1	0.2
74-87-3	Chloromethane	U	1	1.0	1	1	0.6
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.2
74-83-9	Bromomethane	U	1	1.0	1	1	0.6
75-00-3	Chloroethane	U	1	1.0	1	1	0.9
75-69-4	Trichlorofluoromethane	U	1	1.0	1	1	0.2
100-44-7	Diethyl Ether	U	1	1.0	1	1	0.1
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
76-13-1	Freon-113	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
67-64-1	Acetone	U	5	1.0	5	5	1
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.8
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.2
594-20-7	2,2-Dichloropropane	U	1	1.0	1	1	0.2
74-97-5	Bromochloromethane	U	1	1.0	1	1	0.1
67-66-3	Chloroform	J	0.2	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
563-58-6	1,1-Dichloropropene	U	1	1.0	1	1	0.9
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
74-95-3	Dibromomethane	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	J	0.2	1.0	1	1	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	0.8
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
142-28-9	1,3-Dichloropropane	U	1	1.0	1	1	0.2
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.09
591-78-6	2-Hexanone	U	5	1.0	5	5	1

Sample Data Summary A0000028

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG5962-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: S9917 Lab Sample ID: WG5962-2

Date Analyzed: 02/10/04 Time Analyzed: 0937

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-S

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG5962-LCS	WG5962-1	S9915	02/10/04	0822
02	TB-020504	WU0334-3	S9920	02/10/04	1127
03	G01-MW-05-0204	WU0334-2	S9929	02/10/04	1650
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COMMENTS:

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/10/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WG5962-2
Client ID: WG5962-Blank
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5962
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
630-20-6	1,1,1,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.1
98-82-8	Isopropylbenzene	U	1	1.0	1	1	0.3
108-86-1	Bromobenzene	U	1	1.0	1	1	0.2
103-65-1	N-Propylbenzene	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-49-8	2-Chlorotoluene	U	1	1.0	1	1	0.2
96-18-4	1,2,3-Trichloropropane	U	1	1.0	1	1	0.1
106-43-4	4-Chlorotoluene	U	1	1.0	1	1	0.2
98-06-6	tert-Butylbenzene	U	1	1.0	1	1	0.3
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.3
99-87-6	P-Isopropyltoluene	U	1	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.2
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
104-51-8	N-Butylbenzene	U	1	1.0	1	1	0.3
135-98-8	sec-Butylbenzene	U	1	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	1	1.0	1	1	0.4
108-70-3	1,3,5-Trichlorobenzene	U	1	1.0	1	1	0.3
87-68-3	Hexachlorobutadiene	J	0.6	1.0	1	1	0.4
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.2
526-73-8	1,2,3-Trimethylbenzene	U	1	1.0	1	1	0.2
91-20-3	Naphthalene	U	1	1.0	1	1	0.4
87-61-6	1,2,3-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		79%				
17060-07-0	1,2-Dichloroethane-D4		76%				
2037-26-5	Toluene-D8		87%				
460-00-4	P-Bromofluorobenzene		84%				

Sample Data Summary A0000029

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG6009-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: S9977 Lab Sample ID: WG6009-2

Date Analyzed: 02/12/04 Time Analyzed: 0950

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-S

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG6009-LCS	WG6009-1	S9975	02/12/04	0837
02	KWTB-020404	WU0318-1	S9981	02/12/04	1220
03	G01-MW-01A-0204	WU0318-2	S9984	02/12/04	1406
04	G01-MW-01-0204	WU0318-3	S9985	02/12/04	1441
05	G01-MW-03-0204	WU0318-4	S9986	02/12/04	1516
06	G01-MW-02-0204	WU0318-5	S9987	02/12/04	1551
07	G01-MW-04-0204	WU0318-6	S9988	02/12/04	1627
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COMMENTS:

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/12/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WG6009-2
Client ID: WG6009-Blank
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG6009
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	1	1.0	1	1	0.2
74-87-3	Chloromethane	U	1	1.0	1	1	0.6
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.2
74-83-9	Bromomethane	U	1	1.0	1	1	0.6
75-00-3	Chloroethane	U	1	1.0	1	1	0.9
75-69-4	Trichlorofluoromethane	U	1	1.0	1	1	0.2
100-44-7	Diethyl Ether	U	1	1.0	1	1	0.1
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
76-13-1	Freon-113	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
67-64-1	Acetone	U	5	1.0	5	5	1
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.8
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.2
594-20-7	2,2-Dichloropropane	U	1	1.0	1	1	0.2
74-97-5	Bromochloromethane	U	1	1.0	1	1	0.1
67-66-3	Chloroform	J	0.3	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
563-58-6	1,1-Dichloropropene	U	1	1.0	1	1	0.9
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
74-95-3	Dibromomethane	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	0.8
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
142-28-9	1,3-Dichloropropane	U	1	1.0	1	1	0.2
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.09
591-78-6	2-Hexanone	U	5	1.0	5	5	1

Sample Data Summary A0000030

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/12/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WG6009-2
Client ID: WG6009-Blank
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG6009
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
630-20-6	1,1,1,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.1
98-82-8	Isopropylbenzene	U	1	1.0	1	1	0.3
108-86-1	Bromobenzene	U	1	1.0	1	1	0.2
103-65-1	N-Propylbenzene	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-49-8	2-Chlorotoluene	U	1	1.0	1	1	0.2
96-18-4	1,2,3-Trichloropropane	U	1	1.0	1	1	0.1
106-43-4	4-Chlorotoluene	U	1	1.0	1	1	0.2
98-06-6	tert-Butylbenzene	U	1	1.0	1	1	0.3
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.3
99-87-6	P-Isopropyltoluene	U	1	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.2
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
104-51-8	N-Butylbenzene	U	1	1.0	1	1	0.3
135-98-8	sec-Butylbenzene	U	1	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	1	1.0	1	1	0.4
108-70-3	1,3,5-Trichlorobenzene	U	1	1.0	1	1	0.3
87-68-3	Hexachlorobutadiene	J	0.7	1.0	1	1	0.4
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.2
526-73-8	1,2,3-Trimethylbenzene	U	1	1.0	1	1	0.2
91-20-3	Naphthalene	U	1	1.0	1	1	0.4
87-61-6	1,2,3-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		91%				
17060-07-0	1,2-Dichloroethane-D4		89%				
2037-26-5	Toluene-D8		89%				
460-00-4	P-Bromofluorobenzene		83%				

Sample Data Summary A0000031

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG5981-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: Z0076 Lab Sample ID: WG5981-2

Date Analyzed: 02/11/04 Time Analyzed: 1028

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-Z

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG5981-LCS	WG5981-1	Z0074	02/11/04	0914
02	KWTB-020604	WU0346-11	Z0077	02/11/04	1107
03	G01-MW-06-0204	WU0344-1	Z0080	02/11/04	1258
04	G01-MW-10-0204	WU0346-7	Z0081	02/11/04	1335
05	G01-MW-09-0204	WU0346-8	Z0082	02/11/04	1412
06	G01-MW-12-0204	WU0346-9	Z0083	02/11/04	1449
07	G01-MW-08-0204	WU0346-10	Z0084	02/11/04	1526
08					
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COMMENTS:

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/11/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WG5981-2
Client ID: WG5981-Blank
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5981
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	1	1.0	1	1	0.2
74-87-3	Chloromethane	U	1	1.0	1	1	0.6
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.2
74-83-9	Bromomethane	U	1	1.0	1	1	0.6
75-00-3	Chloroethane	U	1	1.0	1	1	0.9
75-69-4	Trichlorofluoromethane	U	1	1.0	1	1	0.2
100-44-7	Diethyl Ether	U	1	1.0	1	1	0.1
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
76-13-1	Freon 113	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride		5	1.0	2	2	0.4
67-64-1	Acetone	U	5	1.0	5	5	1
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.8
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.2
594-20-7	2,2-Dichloropropane	U	1	1.0	1	1	0.2
74-97-5	Bromochloromethane	U	1	1.0	1	1	0.1
67-66-3	Chloroform	J	0.8	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
563-58-6	1,1-Dichloropropene	U	1	1.0	1	1	0.9
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
74-95-3	Dibromomethane	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	0.8
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
142-28-9	1,3-Dichloropropane	U	1	1.0	1	1	0.2
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.09
591-78-6	2-Hexanone	U	5	1.0	5	5	1

Sample Data Summary A0000032

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/11/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WG5981-2
Client ID: WG5981-Blank
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5981
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
630-20-6	1,1,1,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.1
98-82-8	Isopropylbenzene	U	1	1.0	1	1	0.3
108-86-1	Bromobenzene	U	1	1.0	1	1	0.2
103-65-1	N-Propylbenzene	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-49-8	2-Chlorotoluene	U	1	1.0	1	1	0.2
96-18-4	1,2,3-Trichloropropane	U	1	1.0	1	1	0.1
106-43-4	4-Chlorotoluene	U	1	1.0	1	1	0.2
98-06-6	tert-Butylbenzene	U	1	1.0	1	1	0.3
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.3
99-87-6	P-Isopropyltoluene	U	1	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.2
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
104-51-8	N-Butylbenzene	U	1	1.0	1	1	0.3
135-98-8	sec-Butylbenzene	U	1	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	1	1.0	1	1	0.4
108-70-3	1,3,5-Trichlorobenzene	U	1	1.0	1	1	0.3
87-68-3	Hexachlorobutadiene	U	1	1.0	1	1	0.4
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.2
526-73-8	1,2,3-Trimethylbenzene	U	1	1.0	1	1	0.2
91-20-3	Naphthalene	U	1	1.0	1	1	0.4
87-61-6	1,2,3-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		105%				
17060-07-0	1,2-Dichloroethane-D4		108%				
2037-26-5	Toluene-D8		94%				
460-00-4	P-Bromofluorobenzene		92%				

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG6035-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: Z0117 Lab Sample ID: WG6035-2

Date Analyzed: 02/13/04 Time Analyzed: 1021

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-Z

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG6035-LCS	WG6035-1	Z0115	02/13/04	0904
02	G01-MW-11-0204	WU0347-1	Z0124	02/13/04	1440
03	KW-DUP-02-0204	WU0347-2	Z0125	02/13/04	1517
04	G01-MW-07-0204	WU0347-3	Z0126	02/13/04	1554
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COMMENTS:

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/13/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WG6035-2
Client ID: WG6035-Blank
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG6035
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	1	1.0	1	1	0.2
74-87-3	Chloromethane	U	1	1.0	1	1	0.6
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.2
74-83-9	Bromomethane	U	1	1.0	1	1	0.6
75-00-3	Chloroethane	U	1	1.0	1	1	0.9
75-69-4	Trichlorofluoromethane	U	1	1.0	1	1	0.2
100-44-7	Diethyl Ether	U	1	1.0	1	1	0.1
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
76-13-1	Freon-113	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride		4	1.0	2	2	0.4
67-64-1	Acetone	U	5	1.0	5	5	1
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.8
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.2
594-20-7	2,2-Dichloropropane	U	1	1.0	1	1	0.2
74-97-5	Bromochloromethane	U	1	1.0	1	1	0.1
67-66-3	Chloroform	J	0.9	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
563-58-6	1,1-Dichloropropene	U	1	1.0	1	1	0.9
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
74-95-3	Dibromomethane	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	0.8
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
142-28-9	1,3-Dichloropropane	U	1	1.0	1	1	0.2
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.09
591-78-6	2-Hexanone	U	5	1.0	5	5	1

Sample Data Summary A0000035

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/13/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WG6035-2
Client ID: WG6035-Blank
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG6035
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
630-20-6	1,1,1,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.1
98-82-8	Isopropylbenzene	U	1	1.0	1	1	0.3
108-86-1	Bromobenzene	U	1	1.0	1	1	0.2
103-65-1	N-Propylbenzene	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-49-8	2-Chlorotoluene	U	1	1.0	1	1	0.2
96-18-4	1,2,3-Trichloropropane	U	1	1.0	1	1	0.1
106-43-4	4-Chlorotoluene	U	1	1.0	1	1	0.2
98-06-6	tert-Butylbenzene	U	1	1.0	1	1	0.3
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.3
99-87-6	P-Isopropyltoluene	U	1	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.2
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
104-51-8	N-Butylbenzene	U	1	1.0	1	1	0.3
135-98-8	sec-Butylbenzene	U	1	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	1	1.0	1	1	0.4
108-70-3	1,3,5-Trichlorobenzene	U	1	1.0	1	1	0.3
87-68-3	Hexachlorobutadiene	U	1	1.0	1	1	0.4
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.2
526-73-8	1,2,3-Trimethylbenzene	U	1	1.0	1	1	0.2
91-20-3	Naphthalene	U	1	1.0	1	1	0.4
87-61-6	1,2,3-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		102%				
17060-07-0	1,2-Dichloroethane-D4		104%				
2037-26-5	Toluene-D8		90%				
460-00-4	P-Bromofluorobenzene		89%				

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: SB593 BFB Injection Date: 02/04/04

Instrument ID: GCMS-S BFB Injection Time: 1553

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.2
75	30.0 - 60.0% of mass 95	52.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	81.4
175	5.0 - 9.0% of mass 174	6.0 (7.3)1
176	95.0 - 101.0% of mass 174	79.4 (97.6)1
177	5.0 - 9.0% of mass 176	4.3 (5.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD020S04A	S9839	02/04/04	1654
02		VSTD005S04A	S9840	02/04/04	1729
03		VSTD001S04B	S9842	02/04/04	1840
04		VSTD200S04A	S9843	02/04/04	1916
05		VSTD100S04A	S9844	02/04/04	1951
06		VSTD050S04B	S9845	02/04/04	2026
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FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-S Calibration Date(s): 02/04/04 02/04/04

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1618 2026

LAB FILE ID: RF1: S9842 RF5: S9840 RF20: S9839
RF50: S9845 RF100: S9844 RF200: S9843

COMPOUND	RF1	RF5	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
Dichlorodifluoromethane	0.249	0.354	0.369	0.336	0.347	0.359	AVRG		0.33565361	13.114	15.000
Chloromethane	0.468	0.562	0.514	0.433	0.423	0.418	AVRG		0.46972178	12.277	15.000
Vinyl chloride	0.394	0.485	0.536	0.445	0.446	0.458	AVRG		0.46068389	10.227	15.000
Bromomethane	1356	5469	31913	104100	224510	401670	LINR	3.715e-002	3.50888252	0.99945	0.99000
Chloroethane	0.337	0.353	0.361	0.308	0.300	0.284	AVRG		0.32390839	9.539	15.000
Trichlorofluoromethane	0.583	0.719	0.773	0.700	0.728	0.749	AVRG		0.70869177	9.401	15.000
Diethyl Ether	0.363	0.366	0.380	0.348	0.346	0.330	AVRG		0.35531238	4.964	15.000
1,1-Dichloroethene	0.369	0.412	0.425	0.404	0.405	0.382	AVRG		0.39953797	5.078	15.000
Carbon Disulfide	1.369	1.611	1.693	1.556	1.560	1.476	AVRG		1.54412230	7.241	15.000
Freon-113	0.305	0.322	0.320	0.303	0.312	0.318	AVRG		0.31337400	2.492	15.000
Methylene Chloride	12830	28733	86567	210160	409980	695570	LINR	-0.1078527	2.08534535	0.99898	0.99000
Acetone	1957	7919	31366	74526	150410	268880	LINR	-0.2069348	26.7760036	0.99958	0.99000
trans-1,2-Dichloroethene	0.426	0.510	0.504	0.487	0.485	0.450	AVRG		0.47698825	6.792	15.000
Methyl tert-butyl ether	1.272	1.408	1.476	1.392	1.374	1.322	AVRG		1.37395426	5.143	15.000
1,1-Dichloroethane	0.890	0.968	0.980	0.882	0.892	0.858	AVRG		0.91179724	5.481	15.000
Vinyl Acetate	0.476	0.634	0.729	0.660	0.680	0.683	AVRG		0.64382213	13.649	15.000
cis-1,2-Dichloroethene	0.427	0.534	0.528	0.533	0.520	0.505	AVRG		0.50802747	8.048	15.000
1,2-Dichloroethylene (tot							AVRG				0.000
2,2-Dichloropropane	0.627	0.790	0.801	0.706	0.723	0.743	AVRG		0.73177903	8.628	15.000
Bromochloromethane	0.233	0.286	0.287	0.274	0.267	0.261	AVRG		0.26813720	7.449	15.000
Chloroform	1.096	1.042	0.991	0.921	0.916	0.907	AVRG		0.97875199	7.966	15.000
Carbon Tetrachloride	0.327	0.423	0.444	0.431	0.431	0.447	AVRG		0.41722757	10.851	15.000
Tetrahydrofuran	0.062	0.086	0.095	0.092	0.092	0.090	AVRG		8.618e-002	14.293	15.000
1,1,1-Trichloroethane	0.601	0.776	0.793	0.729	0.747	0.759	AVRG		0.73440449	9.383	15.000
1,1-Dichloropropene	2821	20440	93604	260580	531500	958010	LINR	-1.55e-003	2.12550410	0.99996	0.99000
2-Butanone	975	8928	37471	98872	201000	361720	LINR	-5.51e-002	19.7556127	0.99984	0.99000
Benzene	1.190	1.372	1.421	1.381	1.340	1.305	AVRG		1.33482101	6.074	15.000
1,2-Dichloroethane	0.481	0.543	0.550	0.505	0.492	0.527	AVRG		0.51638744	5.439	15.000
Trichloroethene	0.308	0.356	0.364	0.356	0.343	0.344	AVRG		0.34513225	5.790	15.000
Dibromomethane	0.207	0.232	0.227	0.218	0.210	0.222	AVRG		0.21926481	4.400	15.000
1,2-Dichloropropane	0.300	0.335	0.340	0.329	0.319	0.318	AVRG		0.32361286	4.412	15.000
Bromodichloromethane	0.457	0.505	0.530	0.503	0.489	0.505	AVRG		0.49818868	4.887	15.000
cis-1,3-dichloropropene	0.419	0.567	0.623	0.595	0.583	0.603	AVRG		0.56505885	13.107	15.000
2-Chloroethylvinylether	840	5947	31207	87205	183440	354640	LINR	4.724e-002	5.74422228	0.99901	0.99000
Toluene	0.625	0.787	0.861	0.817	0.796	0.798	AVRG		0.78067826	10.326	15.000
4-methyl-2-pentanone	0.179	0.255	0.278	0.252	0.239	0.246	AVRG		0.24143872	13.855	15.000
Tetrachloroethene	0.375	0.357	0.357	0.397	0.379	0.394	AVRG		0.37649519	4.574	15.000
trans-1,3-Dichloropropene	0.382	0.518	0.546	0.517	0.499	0.533	AVRG		0.49916884	11.899	15.000
1,1,2-Trichloroethane	0.206	0.259	0.262	0.248	0.236	0.248	AVRG		0.24316198	8.431	15.000
Dibromochloromethane	0.348	0.443	0.438	0.422	0.428	0.444	AVRG		0.42039052	8.707	15.000
1,3-Dichloropropane	0.577	0.682	0.667	0.629	0.635	0.641	AVRG		0.63845773	5.690	15.000
1,2-Dibromoethane	0.257	0.294	0.303	0.290	0.278	0.299	AVRG		0.28690503	5.859	15.000
2-Hexanone	0.156	0.220	0.223	0.214	0.216	0.216	AVRG		0.20757192	12.196	15.000
Chlorobenzene	0.980	1.102	1.074	1.007	0.992	0.992	AVRG		1.02469027	4.951	15.000

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-S Calibration Date(s): 02/04/04 02/04/04

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1618 2026

LAB FILE ID: RF1: S9842 RF5: S9840 RF20: S9839
RF50: S9845 RF100: S9844 RF200: S9843

COMPOUND	RF1	RF5	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
Ethylbenzene	1.435	1.783	1.877	1.772	1.767	1.744	AVRG		1.72961207	8.770	15.000
1,1,1,2-Tetrachloroethane	0.379	0.435	0.429	0.407	0.411	0.418	AVRG		0.41341393	4.789	15.000
Xylenes (total)							AVRG				0.000
m+p-Xylenes	0.477	0.641	0.661	0.623	0.622	0.598	AVRG		0.60382697	10.834	15.000
o-Xylene	2915	23295	104140	283810	559290	1050700	LINR	-4.1e-003	1.65503587	0.99997	0.99000
Styrene	4781	39431	177600	496550	988720	1857300	LINR	3.147e-003	0.93455346	0.99998	0.99000
Bromoform	0.222	0.292	0.282	0.273	0.278	0.296	AVRG		0.27362434	9.766	15.000
Isopropylbenzene	6752	54279	245280	670920	1330600	2489500	LINR	-6.32e-003	0.40481733	0.99992	0.99000
Bromobenzene	0.673	0.857	0.880	0.851	0.844	0.855	AVRG		0.82680922	9.238	15.000
N-Propylbenzene	9106	73016	332400	869420	1698000	3120200	LINR	-2.69e-002	0.32341083	0.99958	0.99000
1,1,2,2-Tetrachloroethane	0.770	0.780	0.756	0.685	0.681	0.701	AVRG		0.72860204	6.153	15.000
1,3,5-Trimethylbenzene	5907	47656	216320	581040	1169900	2131400	LINR	-1.69e-002	0.47170433	0.99955	0.99000
2-Chlorotoluene	0.499	0.699	0.709	0.679	0.675	0.658	AVRG		0.65310971	11.875	15.000
1,2,3-Trichloropropane	0.997	0.928	0.970	0.837	0.835	0.904	AVRG		0.91181748	7.352	15.000
4-Chlorotoluene	1.616	2.066	2.234	2.102	2.083	2.067	AVRG		2.02772369	10.430	15.000
tert-Butylbenzene	1.767	2.291	2.520	2.313	2.357	2.070	AVRG		2.21975165	11.920	15.000
1,2,4-Trimethylbenzene	6076	52227	231010	617030	1245300	2311300	LINR	-8.23e-003	0.43576762	0.99985	0.99000
P-Isopropyltoluene	5072	45171	210340	560610	1133100	2089900	LINR	-9.41e-003	0.48141188	0.99976	0.99000
1,3-Dichlorobenzene	1.285	1.543	1.597	1.487	1.491	1.485	AVRG		1.48123385	7.124	15.000
1,4-Dichlorobenzene	1.681	1.680	1.674	1.499	1.479	1.474	AVRG		1.58117790	6.749	15.000
N-Butylbenzene	5270	42811	197170	516570	1051800	1940000	LINR	-1.e-002	0.51885227	0.99975	0.99000
sec-Butylbenzene	6669	54056	245930	662770	1324000	2442600	LINR	-1.27e-002	0.41216206	0.99976	0.99000
1,2-Dichlorobenzene	1.206	1.469	1.501	1.365	1.370	1.415	AVRG		1.38758000	7.496	15.000
1,2-Dibromo-3-Chloropropa	0.328	0.286	0.254	0.241	0.244	0.250	AVRG		0.26702687	12.755	15.000
1,3,5-Trichlorobenzene	0.784	0.603	0.641	0.576	0.588	0.616	AVRG		0.63478774	12.086	15.000
Hexachlorobutadiene	0.314	0.337	0.318	0.287	0.285	0.284	AVRG		0.30437729	7.261	15.000
1,2,4-Trichlorobenzene	0.611	0.680	0.754	0.675	0.708	0.735	AVRG		0.69388920	7.350	15.000
1,2,3-Trimethylbenzene	13472	57291	225880	599500	1157100	2155000	LINR	-1.72e-002	0.66829983	0.99979	0.99000
Naphthalene	0.766	0.906	0.920	0.970	0.994	0.990	AVRG		0.92438398	9.239	15.000
1,2,3-Trichlorobenzene	0.387	0.456	0.419	0.402	0.400	0.399	AVRG		0.41058333	6.040	15.000
Dibromofluoromethane	0.674	0.542	0.548	0.526	0.513	0.502	AVRG		0.55099583	11.338	15.000
1,2-Dichloroethane-D4	0.827	0.702	0.675	0.603	0.604	0.633	AVRG		0.67392586	12.538	15.000
Toluene-D8	1.182	1.120	1.160	1.139	1.077	1.070	AVRG		1.12489403	3.986	15.000
P-Bromofluorobenzene	6122	22233	88398	249960	489430	912440	LINR	-4.81e-003	2.24730393	0.99974	0.99000

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-S Calibration Date(s): 02/04/04 02/04/04

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1618 2026

Average %RSD test result.

Calculate Average %RSD: 9.023885727
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: SB597 BFB Injection Date: 02/10/04

Instrument ID: GCMS-S BFB Injection Time: 0715

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.8
75	30.0 - 60.0% of mass 95	50.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	75.8
175	5.0 - 9.0% of mass 174	5.3 (7.0)1
176	95.0 - 101.0% of mass 174	75.0 (99.0)1
177	5.0 - 9.0% of mass 176	5.4 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050S10A	S9914	02/10/04	0741
02	WG5962-LCS	WG5962-1	S9915	02/10/04	0822
03	WG5962-BLANK	WG5962-2	S9917	02/10/04	0937
04	TB-020504	WU0334-3	S9920	02/10/04	1127
05	G01-MW-05-0204	WU0334-2	S9929	02/10/04	1650
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FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-S Calibration Date: 02/10/04 Time: 0741

Lab File ID: S9914 Init. Calib. Date(s): 02/04/04 02/04/04

Init. Calib. Times: 1618 2026

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Dichlorodifluoromethane	0.3360000	0.3187800	0.3187800	0.01	-5.12		AVRG	
Chloromethane	0.4700000	0.4184900	0.4184900	0.1	-10.96		AVRG	
Vinyl chloride	0.4610000	0.4637900	0.4637900	0.01	0.60	20.00	AVRG	
Bromomethane	30.161000	50.000000	0.1613200	0.01	-39.68		LINR	
Chloroethane	0.3240000	0.3064000	0.3064000	0.01	-5.43		AVRG	
Trichlorofluoromethane	0.7090000	0.6727700	0.6727700	0.01	-5.11		AVRG	
Diethyl Ether	0.3560000	0.3468900	0.3468900	0.01	-2.56		AVRG	
1,1-Dichloroethene	0.4000000	0.3855900	0.3855900	0.01	-3.60	20.00	AVRG	
Carbon Disulfide	1.5440000	1.4842000	1.4842000	0.01	-3.87		AVRG	
Freon-113	0.3130000	0.3313500	0.3313500	0.01	5.86		AVRG	
Methylene Chloride	49.411000	50.000000	0.5256100	0.01	-1.18		LINR	
Acetone	247.19000	250.00000	3.85e-002	0.01	-1.12		LINR	
trans-1,2-Dichloroethene	0.4770000	0.4643800	0.4643800	0.01	-2.64		AVRG	
Methyl tert-butyl ether	1.3740000	1.2754000	1.2754000	0.01	-7.18		AVRG	
1,1-Dichloroethane	0.9120000	0.8457700	0.8457700	0.3	-7.26		AVRG	
Vinyl Acetate	0.6440000	0.6613900	0.6613900	0.01	2.70		AVRG	
cis-1,2-Dichloroethene	0.5080000	0.5155200	0.5155200	0.01	1.48		AVRG	
1,2-Dichloroethylene (total)	0.0000000	0.9799000	0.9799000	0.01	0.00		AVRG	<-
2,2-Dichloropropane	0.7320000	0.7125500	0.7125500	0.01	-2.66		AVRG	
Bromochloromethane	0.2680000	0.2529400	0.2529400	0.01	-5.62		AVRG	
Chloroform	0.9790000	0.8938500	0.8938500	0.01	-8.70	20.00	AVRG	
Carbon Tetrachloride	0.4170000	0.4025400	0.4025400	0.01	-3.47		AVRG	
Tetrahydrofuran	8.6e-002	8.39e-002	8.39e-002	0.01	-2.44		AVRG	
1,1,1-Trichloroethane	0.7340000	0.6921000	0.6921000	0.01	-5.71		AVRG	
1,1-Dichloropropene	49.286000	50.000000	0.4644900	0.01	-1.43		LINR	
2-Butanone	224.80000	250.00000	4.61e-002	0.01	-10.08		LINR	
Benzene	1.3350000	1.3570000	1.3570000	0.01	1.65		AVRG	
1,2-Dichloroethane	0.5160000	0.4662800	0.4662800	0.01	-9.64		AVRG	
Trichloroethene	0.3450000	0.3373600	0.3373600	0.01	-2.21		AVRG	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-S Calibration Date: 02/10/04 Time: 0741

Lab File ID: S9914 Init. Calib. Date(s): 02/04/04 02/04/04

Init. Calib. Times: 1618 2026

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Dibromomethane	0.2190000	0.2004000	0.2004000	0.01	-8.49		AVRG	
1,2-Dichloropropane	0.3240000	0.3240400	0.3240400	0.01	0.01	20.00	AVRG	
Bromodichloromethane	0.4980000	0.4855300	0.4855300	0.01	-2.50		AVRG	
cis-1,3-dichloropropene	0.5650000	0.5952300	0.5952300	0.01	5.35		AVRG	
2-Chloroethylvinylether	39.105000	50.000000	0.1279300	0.01	-21.79		LINR	
Toluene	0.7810000	0.8416000	0.8416000	0.01	7.76	20.00	AVRG	
4-methyl-2-pentanone	0.2420000	0.2268700	0.2268700	0.01	-6.25		AVRG	
Tetrachloroethene	0.3760000	0.3258700	0.3258700	0.01	-13.33		AVRG	
trans-1,3-Dichloropropene	0.4990000	0.4822600	0.4822600	0.01	-3.35		AVRG	
1,1,2-Trichloroethane	0.2430000	0.2352700	0.2352700	0.01	-3.18		AVRG	
Dibromochloromethane	0.4200000	0.3900500	0.3900500	0.01	-7.13		AVRG	
1,3-Dichloropropane	0.6380000	0.5862500	0.5862500	0.01	-8.11		AVRG	
1,2-Dibromoethane	0.2870000	0.2688800	0.2688800	0.01	-6.31		AVRG	
2-Hexanone	0.2080000	0.1978000	0.1978000	0.01	-4.90		AVRG	
Chlorobenzene	1.0240000	0.9715200	0.9715200	0.3	-5.12		AVRG	
Ethylbenzene	1.7300000	1.7499000	1.7499000	0.01	1.15	20.00	AVRG	
1,1,1,2-Tetrachloroethane	0.4130000	0.3890700	0.3890700	0.01	-5.79		AVRG	
Xylenes (total)	0.0000000	1.8114000	1.8114000	0.01	0.00		AVRG	<-
m+p-Xylenes	0.6040000	0.6091500	0.6091500	0.01	0.85		AVRG	
o-Xylene	48.873000	50.000000	0.5930800	0.01	-2.25		LINR	
Styrene	47.175000	50.000000	1.0062000	0.01	-5.65		LINR	
Bromoform	0.2740000	0.2403000	0.2403000	0.1	-12.30		AVRG	
Isopropylbenzene	48.079000	50.000000	2.3910000	0.01	-3.84		LINR	
Bromobenzene	0.8270000	0.8021700	0.8021700	0.01	-3.00		AVRG	
N-Propylbenzene	49.416000	50.000000	3.1390000	0.01	-1.17		LINR	
1,1,2,2-Tetrachloroethane	0.7290000	0.6076400	0.6076400	0.3	-16.65		AVRG	
1,3,5-Trimethylbenzene	48.646000	50.000000	2.0983000	0.01	-2.71		LINR	
2-Chlorotoluene	0.6530000	0.6554800	0.6554800	0.01	0.38		AVRG	
1,2,3-Trichloropropane	0.9120000	0.8049500	0.8049500	0.01	-11.74		AVRG	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-S Calibration Date: 02/10/04 Time: 0741

Lab File ID: S9914 Init. Calib. Date(s): 02/04/04 02/04/04

Init. Calib. Times: 1618 2026

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
4-Chlorotoluene	2.0280000	2.0633000	2.0633000	0.01	1.74		AVRG
tert-Butylbenzene	2.2200000	2.3116000	2.3116000	0.01	4.13		AVRG
1,2,4-Trimethylbenzene	48.155000	50.000000	2.2290000	0.01	-3.69		LINR
P-Isopropyltoluene	47.724000	50.000000	2.0022000	0.01	-4.55		LINR
1,3-Dichlorobenzene	1.4810000	1.4122000	1.4122000	0.01	-4.64		AVRG
1,4-Dichlorobenzene	1.5810000	1.4489000	1.4489000	0.01	-8.36		AVRG
N-Butylbenzene	48.075000	50.000000	1.8724000	0.01	-3.85		LINR
sec-Butylbenzene	47.402000	50.000000	2.3310000	0.01	-5.20		LINR
1,2-Dichlorobenzene	1.3880000	1.2954000	1.2954000	0.01	-6.67		AVRG
1,2-Dibromo-3-Chloropropane	0.2670000	0.2066900	0.2066900	0.01	-22.59		AVRG
1,3,5-Trichlorobenzene	0.6350000	0.5584100	0.5584100	0.01	-12.06		AVRG
Hexachlorobutadiene	0.3040000	0.2311700	0.2311700	0.01	-23.96		AVRG
1,2,4-Trichlorobenzene	0.6940000	0.5522300	0.5522300	0.01	-20.43		AVRG
1,2,3-Trimethylbenzene	49.452000	50.000000	1.5056000	0.01	-1.10		LINR
Naphthalene	0.9240000	0.6551200	0.6551200	0.01	-29.10		AVRG
1,2,3-Trichlorobenzene	0.4100000	0.2130200	0.2130200	0.01	-48.04		AVRG
Dibromofluoromethane	0.5510000	0.4412300	0.4412300	0.01	-19.92		AVRG
1,2-Dichloroethane-D4	0.6740000	0.4910100	0.4910100	0.01	-27.15		AVRG
Toluene-D8	1.1250000	1.0152000	1.0152000	0.01	-9.76		AVRG
P-Bromofluorobenzene	44.148000	50.000000	0.3950400	0.01	-11.70		LINR

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: SB600 BFB Injection Date: 02/12/04

Instrument ID: GCMS-S BFB Injection Time: 0731

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.5
75	30.0 - 60.0% of mass 95	52.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	66.5
175	5.0 - 9.0% of mass 174	5.1 (7.6)1
176	95.0 - 101.0% of mass 174	65.3 (98.2)1
177	5.0 - 9.0% of mass 176	4.6 (7.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050S12A	S9974	02/12/04	0758
02	WG6009-LCS	WG6009-1	S9975	02/12/04	0837
03	WG6009-BLANK	WG6009-2	S9977	02/12/04	0950
04	KWTB-020404	WU0318-1	S9981	02/12/04	1220
05	G01-MW-01A-0204	WU0318-2	S9984	02/12/04	1406
06	G01-MW-01-0204	WU0318-3	S9985	02/12/04	1441
07	G01-MW-03-0204	WU0318-4	S9986	02/12/04	1516
08	G01-MW-02-0204	WU0318-5	S9987	02/12/04	1551
09	G01-MW-04-0204	WU0318-6	S9988	02/12/04	1627
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FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-S Calibration Date: 02/12/04 Time: 0758

Lab File ID: S9974 Init. Calib. Date(s): 02/04/04 02/04/04

Init. Calib. Times: 1618 2026

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Dichlorodifluoromethane	0.3360000	0.3670100	0.3670100	0.01	9.23		AVRG	
Chloromethane	0.4700000	0.5244600	0.5244600	0.1	11.59		AVRG	
Vinyl chloride	0.4610000	0.5234300	0.5234300	0.01	13.54	20.00	AVRG	
Bromomethane	32.195000	50.000000	0.1729200	0.01	-35.61		LINR	
Chloroethane	0.3240000	0.3581700	0.3581700	0.01	10.55		AVRG	
Trichlorofluoromethane	0.7090000	0.7920900	0.7920900	0.01	11.72		AVRG	
Diethyl Ether	0.3560000	0.3563700	0.3563700	0.01	0.10		AVRG	
1,1-Dichloroethene	0.4000000	0.4143100	0.4143100	0.01	3.58	20.00	AVRG	
Carbon Disulfide	1.5440000	1.7565000	1.7565000	0.01	13.76		AVRG	
Freon-113	0.3130000	0.3472700	0.3472700	0.01	10.95		AVRG	
Methylene Chloride	60.254000	50.000000	0.6296000	0.01	20.51		LINR	
Acetone	290.33000	250.00000	4.49e-002	0.01	16.13		LINR	
trans-1,2-Dichloroethene	0.4770000	0.4991600	0.4991600	0.01	4.64		AVRG	
Methyl tert-butyl ether	1.3740000	1.2347000	1.2347000	0.01	-10.14		AVRG	
1,1-Dichloroethane	0.9120000	0.9981700	0.9981700	0.3	9.45		AVRG	
Vinyl Acetate	0.6440000	0.6720000	0.6720000	0.01	4.35		AVRG	
cis-1,2-Dichloroethene	0.5080000	0.5638800	0.5638800	0.01	11.00		AVRG	
1,2-Dichloroethylene (total)	0.0000000	1.0630000	1.0630000	0.01	0.00		AVRG	<-
2,2-Dichloropropane	0.7320000	0.7559200	0.7559200	0.01	3.27		AVRG	
Bromochloromethane	0.2680000	0.2632200	0.2632200	0.01	-1.78		AVRG	
Chloroform	0.9790000	1.0214000	1.0214000	0.01	4.33	20.00	AVRG	
Carbon Tetrachloride	0.4170000	0.4506700	0.4506700	0.01	8.07		AVRG	
Tetrahydrofuran	8.6e-002	8.18e-002	8.18e-002	0.01	-4.88		AVRG	
1,1,1-Trichloroethane	0.7340000	0.8003500	0.8003500	0.01	9.04		AVRG	
1,1-Dichloropropene	54.817000	50.000000	0.5165300	0.01	9.63		LINR	
2-Butanone	232.64000	250.00000	4.77e-002	0.01	-6.94		LINR	
Benzene	1.3350000	1.4991000	1.4991000	0.01	12.29		AVRG	
1,2-Dichloroethane	0.5160000	0.5292700	0.5292700	0.01	2.57		AVRG	
Trichloroethene	0.3450000	0.3825400	0.3825400	0.01	10.88		AVRG	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-S Calibration Date: 02/12/04 Time: 0758

Lab File ID: S9974 Init. Calib. Date(s): 02/04/04 02/04/04

Init. Calib. Times: 1618 2026

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Dibromomethane	0.2190000	0.2107600	0.2107600	0.01	-3.76		AVRG	
1,2-Dichloropropane	0.3240000	0.3689900	0.3689900	0.01	13.89	20.00	AVRG	
Bromodichloromethane	0.4980000	0.5377200	0.5377200	0.01	7.98		AVRG	
cis-1,3-dichloropropene	0.5650000	0.6502900	0.6502900	0.01	15.10		AVRG	
2-Chloroethylvinylether	44.240000	50.000000	0.1458100	0.01	-11.52		LINR	
Toluene	0.7810000	0.9064700	0.9064700	0.01	16.06	20.00	AVRG	
4-methyl-2-pentanone	0.2420000	0.2333400	0.2333400	0.01	-3.58		AVRG	
Tetrachloroethene	0.3760000	0.3363200	0.3363200	0.01	-10.55		AVRG	
trans-1,3-Dichloropropene	0.4990000	0.5302800	0.5302800	0.01	6.27		AVRG	
1,1,2-Trichloroethane	0.2430000	0.2525400	0.2525400	0.01	3.92		AVRG	
Dibromochloromethane	0.4200000	0.3876900	0.3876900	0.01	-7.69		AVRG	
1,3-Dichloropropane	0.6380000	0.6206500	0.6206500	0.01	-2.72		AVRG	
1,2-Dibromoethane	0.2870000	0.2861900	0.2861900	0.01	-0.28		AVRG	
2-Hexanone	0.2080000	0.1983700	0.1983700	0.01	-4.63		AVRG	
Chlorobenzene	1.0240000	1.0490000	1.0490000	0.3	2.44		AVRG	
Ethylbenzene	1.7300000	1.8662000	1.8662000	0.01	7.87	20.00	AVRG	
1,1,1,2-Tetrachloroethane	0.4130000	0.4107400	0.4107400	0.01	-0.55		AVRG	
Xylenes (total)	0.0000000	1.9377000	1.9377000	0.01	0.00		AVRG	<-
m+p-Xylenes	0.6040000	0.6510300	0.6510300	0.01	7.79		AVRG	
o-Xylene	52.392000	50.000000	0.6356000	0.01	4.78		LINR	
Styrene	51.664000	50.000000	1.1023000	0.01	3.33		LINR	
Bromoform	0.2740000	0.2305300	0.2305300	0.1	-15.86		AVRG	
Isopropylbenzene	51.937000	50.000000	2.5816000	0.01	3.87		LINR	
Bromobenzene	0.8270000	0.8404800	0.8404800	0.01	1.63		AVRG	
N-Propylbenzene	55.414000	50.000000	3.5099000	0.01	10.83		LINR	
1,1,2,2-Tetrachloroethane	0.7290000	0.6392600	0.6392600	0.3	-12.31		AVRG	
1,3,5-Trimethylbenzene	53.683000	50.000000	2.3119000	0.01	7.37		LINR	
2-Chlorotoluene	0.6530000	0.7163000	0.7163000	0.01	9.69		AVRG	
1,2,3-Trichloropropane	0.9120000	0.8333300	0.8333300	0.01	-8.63		AVRG	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-S Calibration Date: 02/12/04 Time: 0758

Lab File ID: S9974 Init. Calib. Date(s): 02/04/04 02/04/04

Init. Calib. Times: 1618 2026

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
4-Chlorotoluene	2.0280000	2.2476000	2.2476000	0.01	10.83		AVRG
tert-Butylbenzene	2.2200000	2.5366000	2.5366000	0.01	14.26		AVRG
1,2,4-Trimethylbenzene	52.874000	50.000000	2.4456000	0.01	5.75		LINR
P-Isopropyltoluene	53.165000	50.000000	2.2282000	0.01	6.33		LINR
1,3-Dichlorobenzene	1.4810000	1.5340000	1.5340000	0.01	3.58		AVRG
1,4-Dichlorobenzene	1.5810000	1.5801000	1.5801000	0.01	-0.06		AVRG
N-Butylbenzene	54.002000	50.000000	2.1009000	0.01	8.00		LINR
sec-Butylbenzene	52.728000	50.000000	2.5895000	0.01	5.46		LINR
1,2-Dichlorobenzene	1.3880000	1.3548000	1.3548000	0.01	-2.39		AVRG
1,2-Dibromo-3-Chloropropane	0.2670000	0.2013500	0.2013500	0.01	-24.59		AVRG
1,3,5-Trichlorobenzene	0.6350000	0.5460200	0.5460200	0.01	-14.01		AVRG
Hexachlorobutadiene	0.3040000	0.2271400	0.2271400	0.01	-25.28		AVRG
1,2,4-Trichlorobenzene	0.6940000	0.3316500	0.3316500	0.01	-52.21		AVRG
1,2,3-Trimethylbenzene	56.010000	50.000000	1.7019000	0.01	12.02		LINR
Naphthalene	0.9240000	0.2123400	0.2123400	0.01	-77.02		AVRG
1,2,3-Trichlorobenzene	0.4100000	5.69e-002	5.69e-002	0.01	-86.12		AVRG
Dibromofluoromethane	0.5510000	0.4569400	0.4569400	0.01	-17.07		AVRG
1,2-Dichloroethane-D4	0.6740000	0.5311700	0.5311700	0.01	-21.19		AVRG
Toluene-D8	1.1250000	1.0397000	1.0397000	0.01	-7.58		AVRG
P-Bromofluorobenzene	46.129000	50.000000	0.4126700	0.01	-7.74		LINR

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: ZB699 BFB Injection Date: 01/05/04

Instrument ID: GCMS-Z BFB Injection Time: 0808

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.1
75	30.0 - 60.0% of mass 95	47.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	71.1
175	5.0 - 9.0% of mass 174	5.6 (7.8)1
176	95.0 - 101.0% of mass 174	71.1 (100.0)1
177	5.0 - 9.0% of mass 176	5.0 (7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD020Z05A	Z9679	01/05/04	1122
02		VSTD005Z05A	Z9680	01/05/04	1200
03		VSTD001Z05B	Z9682	01/05/04	1314
04		VSTD200Z05A	Z9683	01/05/04	1351
05		VSTD100Z05A	Z9684	01/05/04	1428
06		VSTD050Z05E	Z9685	01/05/04	1505
07					
08					
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FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-Z Calibration Date(s): 01/05/04 01/05/04

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1122 1505

LAB FILE ID: RF1: Z9682 RF5: Z9680 RF20: Z9679
RF50: Z9685 RF100: Z9684 RF200: Z9683

COMPOUND	RF1	RF5	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
Dichlorodifluoromethane	0.295	0.426	0.415	0.420	0.438	0.472	AVRG		0.41129331	14.686	15.000
Chloromethane	0.603	0.645	0.638	0.604	0.618	0.652	AVRG		0.62681453	3.416	15.000
Vinyl chloride	0.421	0.472	0.442	0.470	0.483	0.484	AVRG		0.46204930	5.438	15.000
Bromomethane	2514	8498	33464	82021	167980	333640	LINR	5.771e-003	3.53949716	0.99988	0.99000
Chloroethane	0.281	0.255	0.246	0.224	0.218	0.233	AVRG		0.24296257	9.463	15.000
Trichlorofluoromethane	0.535	0.581	0.607	0.608	0.631	0.701	AVRG		0.61070241	9.050	15.000
Diethyl Ether	0.302	0.292	0.309	0.286	0.309	0.322	AVRG		0.30333444	4.228	15.000
1,1-Dichloroethene	0.282	0.287	0.279	0.268	0.283	0.299	AVRG		0.28297695	3.538	15.000
Carbon Disulfide	1.060	0.989	1.034	0.997	1.027	1.068	AVRG		1.02923385	3.118	15.000
Freon-113	0.311	0.239	0.257	0.252	0.266	0.285	AVRG		0.26824670	9.676	15.000
Methylene Chloride	4398	11892	42398	103380	220980	444260	LINR	1.617e-002	2.66096172	0.99940	0.99000
Acetone	1772	6047	22879	52871	106490	218310	LINR	3.351e-002	27.1946399	0.99931	0.99000
trans-1,2-Dichloroethene	0.378	0.333	0.350	0.337	0.346	0.362	AVRG		0.35105508	4.854	15.000
Methyl tert-butyl ether	0.791	0.775	0.789	0.772	0.798	0.796	AVRG		0.78691066	1.382	15.000
1,1-Dichloroethane	0.771	1.004	1.015	1.006	1.006	1.048	AVRG		0.97497430	10.387	15.000
Vinyl Acetate	0.545	0.581	0.663	0.632	0.644	0.681	AVRG		0.62422061	8.268	15.000
cis-1,2-Dichloroethene	0.533	0.529	0.542	0.539	0.557	0.572	AVRG		0.54528644	3.008	15.000
1,2-Dichloroethylene (tot							AVRG				0.000
2,2-Dichloropropane	0.786	0.787	0.770	0.734	0.764	0.803	AVRG		0.77378279	3.121	15.000
Bromochloromethane	0.284	0.279	0.279	0.280	0.281	0.285	AVRG		0.28123753	0.932	15.000
Chloroform	8379	30233	113790	274240	556340	1135500	LINR	1.157e-002	1.04361847	0.99945	0.99000
Carbon Tetrachloride	0.330	0.364	0.370	0.384	0.376	0.396	AVRG		0.37005812	6.124	15.000
Tetrahydrofuran	0.114	0.143	0.145	0.155	0.142	0.141	AVRG		0.13985057	9.836	15.000
1,1,1-Trichloroethane	0.646	0.772	0.761	0.769	0.761	0.780	AVRG		0.74830880	6.793	15.000
1,1-Dichloropropene	0.355	0.397	0.409	0.413	0.411	0.412	AVRG		0.39967315	5.659	15.000
2-Butanone	0.052	0.065	0.064	0.066	0.062	0.061	AVRG		6.166e-002	8.061	15.000
Benzene	1.148	1.197	1.204	1.198	1.175	1.158	AVRG		1.18016222	1.960	15.000
1,2-Dichloroethane	0.450	0.481	0.479	0.480	0.463	0.476	AVRG		0.47142648	2.590	15.000
Trichloroethene	0.281	0.326	0.311	0.307	0.297	0.282	AVRG		0.30054331	5.766	15.000
Dibromomethane	0.207	0.211	0.205	0.200	0.202	0.196	AVRG		0.20345019	2.575	15.000
1,2-Dichloropropane	0.335	0.324	0.328	0.323	0.324	0.316	AVRG		0.32512241	1.910	15.000
Bromodichloromethane	0.473	0.416	0.436	0.428	0.434	0.440	AVRG		0.43801739	4.407	15.000
cis-1,3-dichloropropene	0.484	0.488	0.514	0.524	0.529	0.519	AVRG		0.50945293	3.779	15.000
2-Chloroethylvinylether	0.142	0.144	0.166	0.180	0.183	0.183	AVRG		0.16649891	11.398	15.000
Toluene	0.697	0.704	0.720	0.705	0.668	0.662	AVRG		0.69273956	3.305	15.000
4-methyl-2-pentanone	0.302	0.319	0.318	0.326	0.268	0.248	AVRG		0.29682906	10.705	15.000
Tetrachloroethene	0.250	0.257	0.244	0.264	0.249	0.240	AVRG		0.25081429	3.480	15.000
trans-1,3-Dichloropropene	0.477	0.429	0.459	0.464	0.445	0.454	AVRG		0.45459281	3.598	15.000
1,1,2-Trichloroethane	0.261	0.237	0.227	0.221	0.208	0.198	AVRG		0.22543977	9.919	15.000
Dibromochloromethane	0.443	0.374	0.384	0.399	0.402	0.413	AVRG		0.40261237	6.023	15.000
1,3-Dichloropropane	0.660	0.602	0.586	0.594	0.577	0.592	AVRG		0.60179987	4.930	15.000
1,2-Dibromoethane	0.312	0.293	0.293	0.305	0.282	0.290	AVRG		0.29565828	3.688	15.000
2-Hexanone	0.247	0.292	0.278	0.288	0.257	0.252	AVRG		0.26894314	7.247	15.000
Chlorobenzene	1.175	0.968	0.936	0.923	0.888	0.852	AVRG		0.95709168	11.907	15.000

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-Z Calibration Date(s): 01/05/04 01/05/04

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1122 1505

LAB FILE ID: RF1: Z9682 RF5: Z9680 RF20: Z9679
RF50: Z9685 RF100: Z9684 RF200: Z9683

COMPOUND	RF1	RF5	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
Ethylbenzene	1.929	1.498	1.533	1.535	1.468	1.402	AVRG		1.56090530	11.986	15.000
1,1,1,2-Tetrachloroethane	0.417	0.357	0.342	0.349	0.340	0.351	AVRG		0.35941880	8.093	15.000
Xylenes (total)							AVRG				0.000
m+p-Xylenes	0.604	0.601	0.585	0.560	0.530	0.474	AVRG		0.55904058	8.957	15.000
o-Xylene	0.569	0.565	0.567	0.553	0.538	0.530	AVRG		0.55374222	2.983	15.000
Styrene	19525	49682	173960	409360	815060	1497600	LINR	-3.65e-002	1.06907249	0.99946	0.99000
Bromoform	0.254	0.238	0.234	0.245	0.240	0.251	AVRG		0.24392775	3.148	15.000
Isopropylbenzene	2.908	3.020	2.793	2.915	2.965	2.954	AVRG		2.92560321	2.615	15.000
Bromobenzene	0.917	0.836	0.800	0.792	0.819	0.807	AVRG		0.82863754	5.563	15.000
N-Propylbenzene	3.616	3.600	3.344	3.261	3.221	3.071	AVRG		3.35217255	6.480	15.000
1,1,2,2-Tetrachloroethane	1.116	0.972	0.851	0.889	0.885	0.922	AVRG		0.93917950	10.179	15.000
1,3,5-Trimethylbenzene	2.677	2.610	2.447	2.418	2.400	2.290	AVRG		2.47369611	5.798	15.000
2-Chlorotoluene	2.835	2.637	2.409	2.388	2.317	2.274	AVRG		2.47661056	8.718	15.000
1,2,3-Trichloropropane	1.422	1.226	1.112	1.123	1.160	1.223	AVRG		1.21079693	9.421	15.000
4-Chlorotoluene	2.644	2.425	2.318	2.289	2.345	2.363	AVRG		2.39745260	5.390	15.000
tert-Butylbenzene	1.957	2.012	1.880	2.159	2.101	1.960	AVRG		2.01129270	5.114	15.000
1,2,4-Trimethylbenzene	3.047	2.712	2.706	2.591	2.673	2.579	AVRG		2.71798391	6.293	15.000
P-Isopropyltoluene	2.498	2.384	2.282	2.355	2.490	2.419	AVRG		2.40460113	3.438	15.000
1,3-Dichlorobenzene	1.746	1.459	1.377	1.411	1.433	1.456	AVRG		1.48019824	9.033	15.000
1,4-Dichlorobenzene	7390	28777	112020	251300	486850	876060	LINR	-2.21e-002	0.77622218	0.99981	0.99000
N-Butylbenzene	2.193	2.213	2.089	2.080	2.195	2.119	AVRG		2.14814508	2.740	15.000
sec-Butylbenzene	3.028	2.874	2.854	2.773	2.896	2.881	AVRG		2.88428814	2.866	15.000
1,2-Dichlorobenzene	1.728	1.442	1.309	1.300	1.375	1.387	AVRG		1.42367445	11.118	15.000
1,2-Dibromo-3-Chloropropa	0.375	0.361	0.318	0.314	0.321	0.325	AVRG		0.33574619	7.622	15.000
1,3,5-Trichlorobenzene	4882	19582	71195	161490	343060	611020	LINR	-3.67e-002	1.90957041	0.99805	0.99000
Hexachlorobutadiene	1909	8557	26179	59842	125410	205380	LINR	-4.13e-002	3.26177568	0.99651	0.99000
1,2,4-Trichlorobenzene	0.921	0.889	0.782	0.790	0.807	0.802	AVRG		0.83197503	7.015	15.000
1,2,3-Trimethylbenzene	15281	57611	224690	473220	954820	1635300	LINR	-7.39e-002	0.71141890	0.99522	0.99000
Naphthalene	2.001	2.242	2.024	1.994	1.975	1.916	AVRG		2.02536359	5.550	15.000
1,2,3-Trichlorobenzene	0.697	0.760	0.673	0.671	0.670	0.634	AVRG		0.68425353	6.155	15.000
Dibromofluoromethane	0.616	0.698	0.594	0.586	0.567	0.574	AVRG		0.60586341	7.949	15.000
1,2-Dichloroethane-D4	0.768	0.796	0.666	0.687	0.655	0.675	AVRG		0.70787033	8.360	15.000
Toluene-D8	1.091	1.206	1.005	1.026	0.957	0.932	AVRG		1.03618546	9.665	15.000
P-Bromofluorobenzene	5957	28265	93270	211730	418040	765350	LINR	-5.9e-002	2.63701653	0.99807	0.99000

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-Z Calibration Date(s): 01/05/04 01/05/04

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1122 1505

Average %RSD test result.
Calculate Average %RSD: 7.094117641
Maximum Average %RSD: 15.00000000
Note: Passes Average %RSD Test.

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: ZB725 BFB Injection Date: 02/11/04

Instrument ID: GCMS-Z BFB Injection Time: 0813

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.7
75	30.0 - 60.0% of mass 95	46.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	63.7
175	5.0 - 9.0% of mass 174	5.0 (7.9)1
176	95.0 - 101.0% of mass 174	62.0 (97.3)1
177	5.0 - 9.0% of mass 176	3.4 (5.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050Z11A	Z0073	02/11/04	0836
02	WG5981-LCS	WG5981-1	Z0074	02/11/04	0914
03	WG5981-BLANK	WG5981-2	Z0076	02/11/04	1028
04	KWTB-020604	WU0346-11	Z0077	02/11/04	1107
05	G01-MW-06-0204	WU0344-1	Z0080	02/11/04	1258
06	G01-MW-10-0204	WU0346-7	Z0081	02/11/04	1335
07	G01-MW-09-0204	WU0346-8	Z0082	02/11/04	1412
08	G01-MW-12-0204	WU0346-9	Z0083	02/11/04	1449
09	G01-MW-08-0204	WU0346-10	Z0084	02/11/04	1526
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22					

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-Z Calibration Date: 02/11/04 Time: 0836

Lab File ID: Z0073 Init. Calib. Date(s): 01/05/04 01/05/04

Init. Calib. Times: 1122 1505

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Dichlorodifluoromethane	0.4110000	0.3749800	0.3749800	0.01	-8.76		AVRG	
Chloromethane	0.6270000	0.7161200	0.7161200	0.1	14.21		AVRG	
Vinyl chloride	0.4620000	0.5106900	0.5106900	0.01	10.54	20.00	AVRG	
Bromomethane	49.333000	50.000000	0.2771300	0.01	-1.33		LINR	
Chloroethane	0.2430000	0.2651900	0.2651900	0.01	9.13		AVRG	
Trichlorofluoromethane	0.6100000	0.7169800	0.7169800	0.01	17.54		AVRG	
Diethyl Ether	0.3030000	0.3304500	0.3304500	0.01	9.06		AVRG	
1,1-Dichloroethene	0.2830000	0.3344300	0.3344300	0.1	18.17	20.00	AVRG	
Carbon Disulfide	1.0290000	1.2252000	1.2252000	0.01	19.07		AVRG	
Freon-113	0.2680000	0.2528000	0.2528000	0.01	-5.67		AVRG	
Methylene Chloride	59.374000	50.000000	0.4401800	0.01	18.75		LINR	
Acetone	214.48000	250.00000	3.13e-002	0.01	-14.21		LINR	
trans-1,2-Dichloroethene	0.3510000	0.3976600	0.3976600	0.01	13.29		AVRG	
Methyl tert-butyl ether	0.7870000	1.1317000	1.1317000	0.01	43.80		AVRG	
1,1-Dichloroethane	0.9750000	1.1714000	1.1714000	0.3	20.14		AVRG	
Vinyl Acetate	0.6240000	0.8212200	0.8212200	0.01	31.61		AVRG	
cis-1,2-Dichloroethene	0.5450000	0.5742800	0.5742800	0.01	5.37		AVRG	
1,2-Dichloroethylene (total)	0.0000000	0.9719400	0.9719400	0.01	0.00		AVRG	<-
2,2-Dichloropropane	0.7740000	0.7927900	0.7927900	0.01	2.43		AVRG	
Bromochloromethane	0.2810000	0.2850100	0.2850100	0.01	1.43		AVRG	
Chloroform	55.177000	50.000000	1.0463000	0.01	10.35	20.00	LINR	
Carbon Tetrachloride	0.3700000	0.3569600	0.3569600	0.01	-3.52		AVRG	
Tetrahydrofuran	0.1400000	0.1600800	0.1600800	0.01	14.34		AVRG	
1,1,1-Trichloroethane	0.7480000	0.8340800	0.8340800	0.01	11.51		AVRG	
1,1-Dichloropropene	0.4000000	0.4162700	0.4162700	0.01	4.07		AVRG	
2-Butanone	6.2e-002	6.2e-002	6.2e-002	0.01	0.00		AVRG	
Benzene	1.1800000	1.2692000	1.2692000	0.01	7.56		AVRG	
1,2-Dichloroethane	0.4720000	0.4665300	0.4665300	0.01	-1.16		AVRG	
Trichloroethene	0.3010000	0.3172700	0.3172700	0.01	5.40		AVRG	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-Z Calibration Date: 02/11/04 Time: 0836

Lab File ID: Z0073 Init. Calib. Date(s): 01/05/04 01/05/04

Init. Calib. Times: 1122 1505

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Dibromomethane	0.2040000	0.2018200	0.2018200	0.01	-1.07		AVRG	
1,2-Dichloropropane	0.3250000	0.3458300	0.3458300	0.01	6.41	20.00	AVRG	
Bromodichloromethane	0.4380000	0.4403000	0.4403000	0.01	0.52		AVRG	
cis-1,3-dichloropropene	0.5100000	0.5358900	0.5358900	0.01	5.08		AVRG	
2-Chloroethylvinylether	0.1660000	0.1680600	0.1680600	0.01	1.24		AVRG	
Toluene	0.6930000	0.7188100	0.7188100	0.01	3.72	20.00	AVRG	
4-methyl-2-pentanone	0.2970000	0.3162200	0.3162200	0.01	6.47		AVRG	
Tetrachloroethene	0.2510000	0.2360300	0.2360300	0.01	-5.96		AVRG	
trans-1,3-Dichloropropene	0.4550000	0.4442100	0.4442100	0.01	-2.37		AVRG	
1,1,2-Trichloroethane	0.2250000	0.2379400	0.2379400	0.01	5.75		AVRG	
Dibromochloromethane	0.4020000	0.3676200	0.3676200	0.01	-8.55		AVRG	
1,3-Dichloropropane	0.6020000	0.6052800	0.6052800	0.01	0.54		AVRG	
1,2-Dibromoethane	0.2960000	0.2684700	0.2684700	0.01	-9.30		AVRG	
2-Hexanone	0.2690000	0.2649100	0.2649100	0.01	-1.52		AVRG	
Chlorobenzene	0.9570000	0.9286500	0.9286500	0.3	-2.96		AVRG	
Ethylbenzene	1.5610000	1.6322000	1.6322000	0.01	4.56	20.00	AVRG	
1,1,1,2-Tetrachloroethane	0.3590000	0.3376700	0.3376700	0.01	-5.94		AVRG	
Xylenes (total)	0.0000000	0.5635400	0.5635400	0.01	0.00		AVRG	<-
m+p-Xylenes	0.5590000	0.5797400	0.5797400	0.01	3.71		AVRG	
o-Xylene	0.5540000	0.5311500	0.5311500	0.01	-4.12		AVRG	
Styrene	50.694000	50.000000	0.9824900	0.01	1.39		LINR	
Bromoform	0.2440000	0.2126900	0.2126900	0.1	-12.83		AVRG	
Isopropylbenzene	2.9260000	2.8538000	2.8538000	0.01	-2.47		AVRG	
Bromobenzene	0.8280000	0.7730900	0.7730900	0.01	-6.63		AVRG	
N-Propylbenzene	3.3520000	3.5741000	3.5741000	0.01	6.62		AVRG	
1,1,2,2-Tetrachloroethane	0.9390000	0.8623600	0.8623600	0.3	-8.16		AVRG	
1,3,5-Trimethylbenzene	2.4740000	2.4210000	2.4210000	0.01	-2.14		AVRG	
2-Chlorotoluene	2.4770000	2.5390000	2.5390000	0.01	2.50		AVRG	
1,2,3-Trichloropropane	1.2110000	1.0337000	1.0337000	0.01	-14.64		AVRG	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-Z Calibration Date: 02/11/04 Time: 0836

Lab File ID: Z0073 Init. Calib. Date(s): 01/05/04 01/05/04

Init. Calib. Times: 1122 1505

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
4-Chlorotoluene	2.3970000	2.2993000	2.2993000	0.01	-4.08		AVRG
tert-Butylbenzene	2.0120000	1.9687000	1.9687000	0.01	-2.15		AVRG
1,2,4-Trimethylbenzene	2.7180000	2.6479000	2.6479000	0.01	-2.58		AVRG
P-Isopropyltoluene	2.4050000	2.2382000	2.2382000	0.01	-6.94		AVRG
1,3-Dichlorobenzene	1.4800000	1.3067000	1.3067000	0.01	-11.71		AVRG
1,4-Dichlorobenzene	50.920000	50.000000	1.3404000	0.01	1.84		LINR
N-Butylbenzene	2.1480000	2.1931000	2.1931000	0.01	2.10		AVRG
sec-Butylbenzene	2.8840000	2.7915000	2.7915000	0.01	-3.21		AVRG
1,2-Dichlorobenzene	1.4240000	1.2415000	1.2415000	0.01	-12.82		AVRG
1,2-Dibromo-3-Chloropropane	0.3360000	0.2985400	0.2985400	0.01	-11.15		AVRG
1,3,5-Trichlorobenzene	46.029000	50.000000	0.5013000	0.01	-7.94		LINR
Hexachlorobutadiene	35.542000	50.000000	0.2305900	0.01	-28.92		LINR
1,2,4-Trichlorobenzene	0.8320000	0.7119900	0.7119900	0.01	-14.42		AVRG
1,2,3-Trimethylbenzene	56.697000	50.000000	1.6977000	0.01	13.39		LINR
Naphthalene	2.0250000	1.7460000	1.7460000	0.01	-13.78		AVRG
1,2,3-Trichlorobenzene	0.6840000	0.6319100	0.6319100	0.01	-7.62		AVRG
Dibromofluoromethane	0.6060000	0.5740800	0.5740800	0.01	-5.27		AVRG
1,2-Dichloroethane-D4	0.7080000	0.6503400	0.6503400	0.01	-8.14		AVRG
Toluene-D8	1.0360000	0.9206700	0.9206700	0.01	-11.13		AVRG
P-Bromofluorobenzene	46.459000	50.000000	0.3747300	0.01	-7.08		LINR

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: ZB727 BFB Injection Date: 02/13/04

Instrument ID: GCMS-Z BFB Injection Time: 0803

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	29.3
75	30.0 - 60.0% of mass 95	48.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	9.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	52.8
175	5.0 - 9.0% of mass 174	3.5 (6.6)1
176	95.0 - 101.0% of mass 174	51.9 (98.4)1
177	5.0 - 9.0% of mass 176	3.3 (6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050Z13A	Z0114	02/13/04	0827
02	WG6035-LCS	WG6035-1	Z0115	02/13/04	0904
03	WG6035-BLANK	WG6035-2	Z0117	02/13/04	1021
04	G01-MW-11-0204	WU0347-1	Z0124	02/13/04	1440
05	KW-DUP-02-0204	WU0347-2	Z0125	02/13/04	1517
06	G01-MW-07-0204	WU0347-3	Z0126	02/13/04	1554
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FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-Z Calibration Date: 02/13/04 Time: 0827

Lab File ID: Z0114 Init. Calib. Date(s): 01/05/04 01/05/04

Init. Calib. Times: 1122 1505

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Dichlorodifluoromethane	0.4110000	0.3473000	0.3473000	0.01	-15.50		AVRG	
Chloromethane	0.6270000	0.6492500	0.6492500	0.1	3.55		AVRG	
Vinyl chloride	0.4620000	0.4674500	0.4674500	0.01	1.18	20.00	AVRG	
Bromomethane	37.557000	50.000000	0.2105800	0.01	-24.89		LINR	
Chloroethane	0.2430000	0.2494500	0.2494500	0.01	2.65		AVRG	
Trichlorofluoromethane	0.6100000	0.6835300	0.6835300	0.01	12.05		AVRG	
Diethyl Ether	0.3030000	0.3180100	0.3180100	0.01	4.95		AVRG	
1,1-Dichloroethene	0.2830000	0.3174200	0.3174200	0.1	12.16	20.00	AVRG	
Carbon Disulfide	1.0290000	1.2101000	1.2101000	0.01	17.60		AVRG	
Freon-113	0.2680000	0.2230000	0.2230000	0.01	-16.79		AVRG	
Methylene Chloride	58.496000	50.000000	0.4335800	0.01	16.99		LINR	
Acetone	331.81000	250.00000	4.86e-002	0.01	32.72		LINR	
trans-1,2-Dichloroethene	0.3510000	0.4011500	0.4011500	0.01	14.29		AVRG	
Methyl tert-butyl ether	0.7870000	1.1566000	1.1566000	0.01	46.96		AVRG	
1,1-Dichloroethane	0.9750000	1.1564000	1.1564000	0.3	18.60		AVRG	
Vinyl Acetate	0.6240000	0.8705900	0.8705900	0.01	39.52		AVRG	
cis-1,2-Dichloroethene	0.5450000	0.5937400	0.5937400	0.01	8.94		AVRG	
1,2-Dichloroethylene (total)	0.0000000	0.9949000	0.9949000	0.01	0.00		AVRG	<-
2,2-Dichloropropane	0.7740000	0.7932700	0.7932700	0.01	2.49		AVRG	
Bromochloromethane	0.2810000	0.2831700	0.2831700	0.01	0.77		AVRG	
Chloroform	56.084000	50.000000	1.0637000	0.01	12.17	20.00	LINR	
Carbon Tetrachloride	0.3700000	0.3651800	0.3651800	0.01	-1.30		AVRG	
Tetrahydrofuran	0.1400000	0.1751200	0.1751200	0.01	25.09		AVRG	
1,1,1-Trichloroethane	0.7480000	0.8274000	0.8274000	0.01	10.62		AVRG	
1,1-Dichloropropene	0.4000000	0.4204400	0.4204400	0.01	5.11		AVRG	
2-Butanone	6.2e-002	7.36e-002	7.36e-002	0.01	18.71		AVRG	
Benzene	1.1800000	1.2831000	1.2831000	0.01	8.74		AVRG	
1,2-Dichloroethane	0.4720000	0.4767400	0.4767400	0.01	1.00		AVRG	
Trichloroethene	0.3010000	0.3172700	0.3172700	0.01	5.40		AVRG	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-Z Calibration Date: 02/13/04 Time: 0827

Lab File ID: Z0114 Init. Calib. Date(s): 01/05/04 01/05/04

Init. Calib. Times: 1122 1505

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Dibromomethane	0.2040000	0.2123400	0.2123400	0.01	4.09		AVRG	
1,2-Dichloropropane	0.3250000	0.3543300	0.3543300	0.01	9.02	20.00	AVRG	
Bromodichloromethane	0.4380000	0.4471500	0.4471500	0.01	2.09		AVRG	
cis-1,3-dichloropropene	0.5100000	0.5508200	0.5508200	0.01	8.00		AVRG	
2-Chloroethylvinylether	0.1660000	0.1761600	0.1761600	0.01	6.12		AVRG	
Toluene	0.6930000	0.7300800	0.7300800	0.01	5.35	20.00	AVRG	
4-methyl-2-pentanone	0.2970000	0.3345200	0.3345200	0.01	12.63		AVRG	
Tetrachloroethene	0.2510000	0.2277200	0.2277200	0.01	-9.27		AVRG	
trans-1,3-Dichloropropene	0.4550000	0.4656700	0.4656700	0.01	2.34		AVRG	
1,1,2-Trichloroethane	0.2250000	0.2429200	0.2429200	0.01	7.96		AVRG	
Dibromochloromethane	0.4020000	0.3686100	0.3686100	0.01	-8.31		AVRG	
1,3-Dichloropropane	0.6020000	0.6170900	0.6170900	0.01	2.51		AVRG	
1,2-Dibromoethane	0.2960000	0.2789500	0.2789500	0.01	-5.76		AVRG	
2-Hexanone	0.2690000	0.3176800	0.3176800	0.01	18.10		AVRG	
Chlorobenzene	0.9570000	0.9166400	0.9166400	0.3	-4.22		AVRG	
Ethylbenzene	1.5610000	1.5874000	1.5874000	0.01	1.69	20.00	AVRG	
1,1,1,2-Tetrachloroethane	0.3590000	0.3276600	0.3276600	0.01	-8.73		AVRG	
Xylenes (total)	0.0000000	0.5614700	0.5614700	0.01	0.00		AVRG	<-
m+p-Xylenes	0.5590000	0.5663100	0.5663100	0.01	1.31		AVRG	
o-Xylene	0.5540000	0.5517800	0.5517800	0.01	-0.40		AVRG	
Styrene	51.812000	50.000000	1.0034000	0.01	3.62		LINR	
Bromoform	0.2440000	0.2238600	0.2238600	0.1	-8.25		AVRG	
Isopropylbenzene	2.9260000	2.8378000	2.8378000	0.01	-3.01		AVRG	
Bromobenzene	0.8280000	0.7882800	0.7882800	0.01	-4.80		AVRG	
N-Propylbenzene	3.3520000	3.5914000	3.5914000	0.01	7.14		AVRG	
1,1,2,2-Tetrachloroethane	0.9390000	0.9492200	0.9492200	0.3	1.09		AVRG	
1,3,5-Trimethylbenzene	2.4740000	2.5102000	2.5102000	0.01	1.46		AVRG	
2-Chlorotoluene	2.4770000	2.5745000	2.5745000	0.01	3.94		AVRG	
1,2,3-Trichloropropane	1.2110000	1.1444000	1.1444000	0.01	-5.50		AVRG	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-Z Calibration Date: 02/13/04 Time: 0827

Lab File ID: Z0114 Init. Calib. Date(s): 01/05/04 01/05/04

Init. Calib. Times: 1122 1505

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
4-Chlorotoluene	2.3970000	2.4758000	2.4758000	0.01	3.29		AVRG
tert-Butylbenzene	2.0120000	2.0012000	2.0012000	0.01	-0.54		AVRG
1,2,4-Trimethylbenzene	2.7180000	2.7275000	2.7275000	0.01	0.35		AVRG
P-Isopropyltoluene	2.4050000	2.3380000	2.3380000	0.01	-2.78		AVRG
1,3-Dichlorobenzene	1.4800000	1.3332000	1.3332000	0.01	-9.92		AVRG
1,4-Dichlorobenzene	51.676000	50.000000	1.3599000	0.01	3.35		LINR
N-Butylbenzene	2.1480000	2.2424000	2.2424000	0.01	4.39		AVRG
sec-Butylbenzene	2.8840000	2.8227000	2.8227000	0.01	-2.12		AVRG
1,2-Dichlorobenzene	1.4240000	1.2570000	1.2570000	0.01	-11.73		AVRG
1,2-Dibromo-3-Chloropropane	0.3360000	0.3059900	0.3059900	0.01	-8.93		AVRG
1,3,5-Trichlorobenzene	44.243000	50.000000	0.4825900	0.01	-11.51		LINR
Hexachlorobutadiene	37.604000	50.000000	0.2432300	0.01	-24.79		LINR
1,2,4-Trichlorobenzene	0.8320000	0.7546200	0.7546200	0.01	-9.30		AVRG
1,2,3-Trimethylbenzene	52.308000	50.000000	1.5743000	0.01	4.62		LINR
Naphthalene	2.0250000	2.0018000	2.0018000	0.01	-1.14		AVRG
1,2,3-Trichlorobenzene	0.6840000	0.6588300	0.6588300	0.01	-3.68		AVRG
Dibromofluoromethane	0.6060000	0.5854200	0.5854200	0.01	-3.40		AVRG
1,2-Dichloroethane-D4	0.7080000	0.6741300	0.6741300	0.01	-4.78		AVRG
Toluene-D8	1.0360000	0.9602600	0.9602600	0.01	-7.31		AVRG
P-Bromofluorobenzene	48.087000	50.000000	0.3870700	0.01	-3.83		LINR

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 DBF#	SMC2 DCA#	SMC3 TOL#	SMC4 BFB#	TOT OUT
01	WG5962-LCS	WG5962-1	81	74	89	85	0
02	WG5962-BLANK	WG5962-2	79	76	87	84	0
03	TB-020504	WU0334-3	84	82	89	84	0
04	G01-MW-05-0204	WU0334-2	87	82	89	84	0
05	WG5981-LCS	WG5981-1	96	94	90	92	0
06	WG5981-BLANK	WG5981-2	105	108	94	92	0
07	KWTB-020604	WU0346-11	106	105	89	83	0
08	G01-MW-06-0204	WU0344-1	105	109	91	96	0
09	G01-MW-10-0204	WU0346-7	99	103	90	95	0
10	G01-MW-09-0204	WU0346-8	99	101	89	94	0
11	G01-MW-12-0204	WU0346-9	97	98	89	94	0
12	G01-MW-08-0204	WU0346-10	97	98	92	98	0
13	WG6009-LCS	WG6009-1	83	78	88	85	0
14	WG6009-BLANK	WG6009-2	91	89	89	83	0
15	KWTB-020404	WU0318-1	94	94	92	84	0
16	G01-MW-01A-0204	WU0318-2	98	101	89	82	0
17	G01-MW-01-0204	WU0318-3	100	103	89	83	0
18	G01-MW-03-0204	WU0318-4	94	92	89	81	0
19	G01-MW-02-0204	WU0318-5	94	97	89	83	0
20	G01-MW-04-0204	WU0318-6	97	101	89	85	0
21	WG6035-LCS	WG6035-1	94	93	91	93	0
22	WG6035-BLANK	WG6035-2	102	104	90	89	0
23	G01-MW-11-0204	WU0347-1	102	108	89	95	0
24	KW-DUP-02-0204	WU0347-2	102	104	93	93	0
25	G01-MW-07-0204	WU0347-3	100	103	88	91	0
26							
27							
28							

		QC LIMITS
SMC1 (DBF)	= Dibromofluoromethane	(75-129)
SMC2 (DCA)	= 1,2-Dichloroethane-D4	(65-135)
SMC3 (TOL)	= Toluene-D8	(82-120)
SMC4 (BFB)	= P-Bromofluorobenzene	(69-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/11/04
Report Date: 03/02/2004
Matrix: WATER

Lab ID: WG5981-1
Client ID: WG5981-LCS
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5981
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	62	124	4-217
Chloromethane	50	NA	63	126	40-163
Vinyl chloride	50	NA	53	107	55-151
Bromomethane	50	NA	48	96	24-217
Chloroethane	50	NA	50	100	69-134
Trichlorofluoromethane	50	NA	54	109	71-147
Diethyl Ether	50	NA	54	107	67-135
Tertiary-butyl alcohol	250	NA	416	* 166	58-146 NTC
1,1-Dichloroethene	50	NA	57	113	78-136
Carbon Disulfide	50	NA	61	122	70-136
Freon-113	50	NA	45	90	60-140
Iodomethane	50	NA	52	104	60-140
Acrolein	250	NA	252	101	0-199
Methylene Chloride	50	NA	59	* 117	52-115
Acetone	50	NA	72	144	0-158
Isobutyl Alcohol	1000	NA	1010	101	60-140
trans-1,2-Dichloroethene	50	NA	55	111	84-131
Allyl Chloride	50	NA	56	112	60-140
Methyl tert-butyl ether	100	NA	152	* 152	62-130
Acetonitrile	500	NA	518	104	53-141
Di-isopropyl ether	50	NA	102	* 204	82-130 NTC
Chloroprene	50	NA	50	101	60-140
Methacrylonitrile	500	NA	596	119	60-140
Propionitrile	500	NA	567	113	60-140
1,1-Dichloroethane	50	NA	57	114	81-134
Acrylonitrile	250	NA	251	100	29-172
Ethyl tertiary-butyl ether	50	NA	83	* 167	85-124 NTC
Vinyl Acetate	50	NA	54	107	68-174
cis-1,2-Dichloroethene	50	NA	48	96	84-123
1,2-Dichloroethylene (total)	100	NA	104	104	84-131
Methyl Methacrylate	50	NA	48	97	60-140
2,2-Dichloropropane	50	NA	48	95	69-150
Bromochloromethane	50	NA	46	91	77-146
Chloroform	50	NA	51	103	80-130
Carbon Tetrachloride	50	NA	45	89	74-137
Tetrahydrofuran	50	NA	50	101	32-140
1,1,1-Trichloroethane	50	NA	51	101	76-138
1,1-Dichloropropene	50	NA	48	95	82-120
2-Butanone	50	NA	76	152	49-154
Benzene	50	NA	49	98	88-120
Cyclohexane		NA			60-140
Ethyl Methacrylate	50	NA	48	95	60-140
Tertiary-amyl methyl ether	50	NA	57	114	85-125
1,2-Dichloroethane	50	NA	47	95	78-138
Trichloroethene	50	NA	47	94	80-125

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/11/04
Report Date: 03/02/2004
Matrix: WATER

Lab ID: WG5981-1
Client ID: WG5981-LCS
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG5981
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dibromomethane	50	NA	48	95	88-130
1,2-Dichloropropane	50	NA	49	99	80-122
Bromodichloromethane	50	NA	44	88	83-133
cis-1,3-dichloropropene	50	NA	48	95	81-138
1,4-Dioxane	1000	NA	864	86	60-140
2-Chloroethylvinylether	50	NA	21	* 43	50-211
Toluene	50	NA	48	97	88-121
4-methyl-2-pentanone	50	NA	51	102	72-140
Tetrachloroethene	50	NA	43	86	77-129
trans-1,3-Dichloropropene	50	NA	46	93	81-149
1,1,2-Trichloroethane	50	NA	48	97	82-126
Dibromochloromethane	50	NA	43	86	80-133
1,3-Dichloropropane	50	NA	47	94	86-125
1,2-Dibromoethane	50	NA	45	89	88-127
2-Hexanone	50	NA	54	108	45-146
Chlorobenzene	50	NA	46	92	84-123
Ethylbenzene	50	NA	47	94	84-134
1,1,1,2-Tetrachloroethane	50	NA	43	86	83-130
Xylenes (total)	150	NA	140	93	88-123
m+p-Xylenes	100	NA	93	93	88-122
o-Xylene	50	NA	47	94	90-123
Styrene	50	NA	43	87	87-131
Bromoform	50	NA	42	83	77-138
Isopropylbenzene	50	NA	48	96	88-125
cis-1,4-Dichloro-2-Butene	50	NA	45	90	60-140
trans-1,4-Dichloro-2-Butene	50	NA	47	94	60-140
Bromobenzene	50	NA	45	90	84-133
N-Propylbenzene	50	NA	50	100	88-124
1,1,2,2-Tetrachloroethane	50	NA	49	98	81-131
1,3,5-Trimethylbenzene	50	NA	48	95	89-124
2-Chlorotoluene	50	NA	51	101	84-128
1,2,3-Trichloropropane	50	NA	46	92	76-132
4-Chlorotoluene	50	NA	48	96	86-132
tert-Butylbenzene	50	NA	46	93	82-131
Pentachloroethane	50	NA	51	103	60-140
1,2,4-Trimethylbenzene	50	NA	45	90	88-121
P-Isopropyltoluene	50	NA	44	88	86-122
1,3-Dichlorobenzene	50	NA	43	86	86-124
1,4-Dichlorobenzene	50	NA	49	98	80-127
N-Butylbenzene	50	NA	48	96	81-133
sec-Butylbenzene	50	NA	48	95	85-122
1,2-Dichlorobenzene	50	NA	44	88	86-126
1,2-Dibromo-3-Chloropropane	50	NA	47	95	61-136
1,3,5-Trichlorobenzene	50	NA	45	90	67-128
Hexachlorobutadiene	50	NA	35	70	52-129

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/12/04
Report Date: 03/02/2004
Matrix: WATER

Lab ID: WG6009-1
Client ID: WG6009-LCS
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG6009
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	71	142	4-217
Chloromethane	50	NA	61	123	40-163
Vinyl chloride	50	NA	61	122	55-151
Bromomethane	50	NA	34	69	24-217
Chloroethane	50	NA	55	111	69-134
Trichlorofluoromethane	50	NA	50	99	71-147
Diethyl Ether	50	NA	54	109	67-135
Tertiary-butyl alcohol	250	NA	271	108	58-146
1,1-Dichloroethene	50	NA	53	107	78-136
Carbon Disulfide	50	NA	58	117	70-136
Freon-113	50	NA	48	96	60-140
Iodomethane	50	NA	25	* 51	60-140
Acrolein	250	NA	301	120	0-199
Methylene Chloride	50	NA	55	111	52-115
Acetone	50	NA	64	127	0-158
Isobutyl Alcohol	1000	NA	869	87	60-140
trans-1,2-Dichloroethene	50	NA	54	107	84-131
Allyl Chloride	50	NA	52	104	60-140
Methyl tert-butyl ether	100	NA	95	95	62-130
Acetonitrile	500	NA	546	109	53-141
Di-isopropyl ether	50	NA	55	111	82-130
Chloroprene	50	NA	50	101	60-140
Methacrylonitrile	500	NA	515	103	60-140
Propionitrile	500	NA	449	90	60-140
1,1-Dichloroethane	50	NA	53	106	81-134
Acrylonitrile	250	NA	237	95	29-172
Ethyl tertiary-butyl ether	50	NA	54	108	85-124
Vinyl Acetate	50	NA	42	84	68-174
cis-1,2-Dichloroethene	50	NA	51	102	84-123
1,2-Dichloroethylene (total)	100	NA	105	105	84-131
Methyl Methacrylate	50	NA	49	97	60-140
2,2-Dichloropropane	50	NA	48	95	69-150
Bromochloromethane	50	NA	46	93	77-146
Chloroform	50	NA	49	98	80-130
Carbon Tetrachloride	50	NA	47	95	74-137
Tetrahydrofuran	50	NA	44	88	32-140
1,1,1-Trichloroethane	50	NA	49	99	76-138
1,1-Dichloropropene	50	NA	48	97	82-120
2-Butanone	50	NA	71	143	49-154
Benzene	50	NA	51	102	88-120
Cyclohexane		NA			60-140
Ethyl Methacrylate	50	NA	50	99	60-140
Tertiary-amyl methyl ether	50	NA	50	100	85-125
1,2-Dichloroethane	50	NA	47	94	78-138
Trichloroethene	50	NA	50	100	80-125

NTC

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/12/04
Report Date: 03/02/2004
Matrix: WATER

Lab ID: WG6009-1
Client ID: WG6009-LCS
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG6009
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dibromomethane	50	NA	46	92	88-130
1,2-Dichloropropane	50	NA	52	104	80-122
Bromodichloromethane	50	NA	46	91	83-133
cis-1,3-dichloropropene	50	NA	51	103	81-138
1,4-Dioxane	1000	NA	717	72	60-140
2-Chloroethylvinylether	50	NA	16	* 31	50-211
Toluene	50	NA	52	104	88-121
4-methyl-2-pentanone	50	NA	47	95	72-140
Tetrachloroethene	50	NA	41	82	77-129
trans-1,3-Dichloropropene	50	NA	49	98	81-149
1,1,2-Trichloroethane	50	NA	48	96	82-126
Dibromochloromethane	50	NA	45	90	80-133
1,3-Dichloropropane	50	NA	46	92	86-125
1,2-Dibromoethane	50	NA	46	93	88-127
2-Hexanone	50	NA	49	99	45-146
Chlorobenzene	50	NA	48	96	84-123
Ethylbenzene	50	NA	50	99	84-134
1,1,1,2-Tetrachloroethane	50	NA	46	91	83-130
Xylenes (total)	150	NA	150	100	88-123
m+p-Xylenes	100	NA	101	101	88-122
o-Xylene	50	NA	48	97	90-123
Styrene	50	NA	45	90	87-131
Bromoform	50	NA	41	83	77-138
Isopropylbenzene	50	NA	51	101	88-125
cis-1,4-Dichloro-2-Butene	50	NA	40	80	60-140
trans-1,4-Dichloro-2-Butene	50	NA	39	78	60-140
Bromobenzene	50	NA	47	94	84-133
N-Propylbenzene	50	NA	51	102	88-124
1,1,2,2-Tetrachloroethane	50	NA	43	86	81-131
1,3,5-Trimethylbenzene	50	NA	49	98	89-124
2-Chlorotoluene	50	NA	51	102	84-128
1,2,3-Trichloropropane	50	NA	44	89	76-132
4-Chlorotoluene	50	NA	52	104	86-132
tert-Butylbenzene	50	NA	53	106	82-131
Pentachloroethane	50	NA	52	103	60-140
1,2,4-Trimethylbenzene	50	NA	47	93	88-121
P-Isopropyltoluene	50	NA	50	99	86-122
1,3-Dichlorobenzene	50	NA	49	99	86-124
1,4-Dichlorobenzene	50	NA	48	96	80-127
N-Butylbenzene	50	NA	50	100	81-133
sec-Butylbenzene	50	NA	48	97	85-122
1,2-Dichlorobenzene	50	NA	47	95	86-126
1,2-Dibromo-3-Chloropropane	50	NA	38	77	61-136
1,3,5-Trichlorobenzene	50	NA	42	85	67-128
Hexachlorobutadiene	50	NA	37	75	52-129

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/13/04
Report Date: 03/02/2004
Matrix: WATER

Lab ID: WG6035-1
Client ID: WG6035-LCS
SDG: CTO297-4
Extracted by:
Extraction Method: SW846 5030
Analyst: KMB
Analysis Method: SW846 8260B
Lab Prep Batch: WG6035
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	42	84	53-157
1,2,3-Trimethylbenzene	50	NA	46	91	60-140
Naphthalene	50	NA	47	93	45-151
1,2,3-Trichlorobenzene	50	NA	48	95	30-164
Methyl Acetate	50	NA	53	106	60-140
Methylcyclohexane	50	NA	44	88	60-140

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG5985-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: 3UB1128 Lab Sample ID: WG5985-1RA

Instrument ID: GC03 Matrix: (soil/water) WATER

Level: (low/med) LOW Date Extracted: 02/11/04

Date Analyzed (1): 02/12/04 Date Analyzed (2): 02/12/04

Time Analyzed (1): 2124 Time Analyzed (2): 2124

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	TIME ANALYZED 2	DATE
01	WG5985-LCS	WG5985-2	3UB1109	02/12/04	1537	02/12/04
02	WG5985-LCSD	WG5985-3	3UB1110	02/12/04	1556	02/12/04
03	G01-MW-06-0204	WU0334-1	3UB1111	02/12/04	1614	02/12/04
04	G01-MW-09-0204	WU0346-8	3UB1112	02/12/04	1632	02/12/04
05						
06						
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23						
24						

COMMENTS:

FORM IV SV

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 02/11/04
Analysis Date: 02/12/04
Report Date: 03/03/2004
Matrix: WATER
% Solids: NA

Lab ID: WG5985-1RA
Client ID: WG5985-Blank
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG5985
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		* 23%				

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG6088-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: 3UB1178 Lab Sample ID: WG6088-1RA

Instrument ID: GC03 Matrix: (soil/water) WATER

Level: (low/med) LOW Date Extracted: 02/17/04

Date Analyzed (1): 02/17/04 Date Analyzed (2): 02/17/04

Time Analyzed (1): 1819 Time Analyzed (2): 1819

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	TIME ANALYZED 2	DATE
01	WG6088-LCS	WG6088-2	3UB1179	02/17/04	1837	02/17/04
02	WG6088-LCSD	WG6088-3	3UB1180	02/17/04	1856	02/17/04
03	G01-MW-01A-0204	WU0318-2RE	3UB1184	02/17/04	2009	02/17/04
04	G01-MW-01-0204	WU0318-3RE	3UB1185	02/17/04	2027	02/17/04
05	G01-MW-03-0204	WU0318-4RE	3UB1186	02/17/04	2045	02/17/04
06	G01-MW-02-0204	WU0318-5RE	3UB1187	02/17/04	2104	02/17/04
07	G01-MW-04-0204	WU0318-6RE	3UB1188	02/17/04	2122	02/17/04
08	G01-MW-05-0204	WU0334-2RE	3UB1189	02/17/04	2140	02/17/04
09	G01-MW-11-0204	WU0346-1RE	3UB1190	02/17/04	2158	02/17/04
10	KW-DUP-02-0204	WU0346-3RE	3UB1191	02/17/04	2217	02/17/04
11	G01-MW-07-0204	WU0346-5RE	3UB1192	02/17/04	2235	02/17/04
12	G01-MW-10-0204	WU0346-7RE	3UB1193	02/17/04	2253	02/17/04
13	G01-MW-09-0204	WU0346-8RE	3UB1194	02/17/04	2311	02/17/04
14	G01-MW-12-0204	WU0346-9RE	3UB1195	02/17/04	2330	02/17/04
15	G01-MW-08-0204	WU0346-10RE	3UB1196	02/17/04	2348	02/17/04
16						
17						
18						
19						
20						
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23						
24						

COMMENTS:

FORM IV SV

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 02/17/04
Analysis Date: 02/17/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WG6088-1RA
Client ID: WG6088-Blank
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG6088
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		109%				

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG6134-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: 3UB1223 Lab Sample ID: WG6134-1

Instrument ID: GC03 Matrix: (soil/water) WATER

Level: (low/med) LOW Date Extracted: 02/19/04

Date Analyzed (1): 02/19/04 Date Analyzed (2): 02/19/04

Time Analyzed (1): 1309 Time Analyzed (2): 1309

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	TIME ANALYZED 2	DATE
01	WG6134-LCS	WG6134-2	3UB1224	02/19/04	1327	02/19/04
02	WG6134-LCSD	WG6134-3	3UB1225	02/19/04	1345	02/19/04
03	G01-MW-06-0204	WU0334-1RE2	3UB1226	02/19/04	1403	02/19/04
04						
05						
06						
07						
08						
09						
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19						
20						
21						
22						
23						
24						

COMMENTS:

FORM IV SV

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 02/19/04
Analysis Date: 02/19/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WG6134-1
Client ID: WG6134-Blank
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG6134
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		*260%				

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GC03 Calibration Date(s): 02/12/04 02/12/04

Column: SPB 608 ID: 0.53 (mm) Calibration Time(s): 1311 1501

LAB FILE ID: RF0.02: 3UB1101 RF0.05: 3UB1102 RF0.1: 3UB1103
RF0.25: 3UB1104 RF0.5: 3UB1105 RF1: 3UB1106

								COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF0.02	RF0.05	RF0.1	RF0.25	RF0.5	RF1	CURVE	A0	A1	A2	OR R^2	OR R^2	
1,2-Dibromoethane	2064	3702	6862	15441	28168	42391	2ORDR	1.418e-002	7.605e-006	3.71e-010	0.99960	0.99000	
Tetrachloro-M-Xylene	10197	18131	24214	32992	55526	79264	2ORDR	0.12553519	1.436e-005	1.95e-010	0.99162	0.99000	

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GC03 Calibration Date(s): 02/12/04 02/12/04

Column: SPB 608 ID: 0.53 (mm) Calibration Time(s): 1311 1501

RF2.5: 3UB1107

			COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF2.5	CURVE	A0	A1	A2	OR R^2	OR R^2	
1,2-Dibromoethane	72192	2ORDR	1.418e-002	7.605e-006	3.71e-010	0.99960	0.99000	
Tetrachloro-M-Xylene	125060	2ORDR	0.12553519	1.436e-005	1.95e-010	0.99162	0.99000	

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GC03 Calibration Date(s): 02/12/04 02/12/04

Column: RTX-CLP II ID: 0.53 (mm) Calibration Time(s): 1311 1501

LAB FILE ID: RF0.02: 3UB2101 RF0.05: 3UB2102 RF0.1: 3UB2103
RF0.25: 3UB2104 RF0.5: 3UB2105 RF1: 3UB2106

								COEFFICENTS			%RSD	MAX %RSD
COMPOUND	RF0.02	RF0.05	RF0.1	RF0.25	RF0.5	RF1	CURVE	A0	A1	A2	OR R^2	OR R^2
1,2-Dibromoethane	181	318	649	1606		5059	2ORDR	1.545e-002	9.63e-005	2.02e-008	0.99965	0.99000
Tetrachloro-M-Xylene	850	1672	2481	3311		8719	2ORDR	5.83e-002	2.465e-004	4.893e-009	0.99902	0.99000

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GC03 Calibration Date(s): 02/12/04 02/12/04

Column: RTX-CLP II ID: 0.53 (mm) Calibration Time(s): 1311 1501

RF2.5: 3UB2107

			COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF2.5	CURVE	A0	A1	A2	OR R^2	OR R^2	
1,2-Dibromoethane	8949	2ORDR	1.545e-002	9.63e-005	2.02e-008	0.99965	0.99000	
Tetrachloro-M-Xylene	15311	2ORDR	5.83e-002	2.465e-004	4.893e-009	0.99902	0.99000	

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GC03 Calibration Date(s): 02/17/04 02/17/04

Column: SPB 608 ID: 0.53 (mm) Calibration Time(s): 1553 1950

LAB FILE ID: RF0.02: 3UB1170 RF0.05: 3UB1171 RF0.1: 3UB1172
RF0.25: 3UB1173 RF0.5: 3UB1174 RF1: 3UB1175

								COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF0.02	RF0.05	RF0.1	RF0.25	RF0.5	RF1	CURVE	A0	A1	A2	OR R^2	OR R^2	
1,2-Dibromoethane	1347	3756	6141	14782	26925	42656	2ORDR	-1.53e-002	1.783e-005	1.122e-010	0.99890	0.99000	
Tetrachloro-M-Xylene	2620	15850	22271	38420	47616	80078	2ORDR	6.211e-002	2.737e-005	1.211e-011	0.99528	0.99000	

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GC03 Calibration Date(s): 02/17/04 02/17/04

Column: SPB 608 ID: 0.53 (mm) Calibration Time(s): 1553 1950

RF2.5: 3UB1176

			COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF2.5	CURVE	A0	A1	A2	OR R^2	OR R^2	
1,2-Dibromoethane	90229	2ORDR	-1.53e-002	1.783e-005	1.122e-010	0.99890	0.99000	
Tetrachloro-M-Xylene	168590	2ORDR	6.211e-002	2.737e-005	1.211e-011	0.99528	0.99000	

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GC03 Calibration Date(s): 02/17/04 02/17/04

Column: RTX-CLP II ID: 0.53 (mm) Calibration Time(s): 1553 1743

LAB FILE ID: RF0.02: 3UB2170 RF0.05: 3UB2171 RF0.1: 3UB2172
RF0.25: 3UB2173 RF0.5: 3UB2174 RF1: 3UB2175

								COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF0.02	RF0.05	RF0.1	RF0.25	RF0.5	RF1	CURVE	A0	A1	A2	OR R^2	OR R^2	
1,2-Dibromoethane	271	486	887	1871	3378	5392	2ORDR	-3.49e-002	1.666e-004	2.454e-009	0.99801	0.99000	
Tetrachloro-M-Xylene	1018	2217	3312	5641	7338	11693	2ORDR	-7.45e-003	2.122e-004	-1.41e-009	0.99321	0.99000	

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GC03 Calibration Date(s): 02/17/04 02/17/04

Column: RTX-CLP II ID: 0.53 (mm) Calibration Time(s): 1553 1743

RF2.5: 3UB2176

			COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF2.5	CURVE	A0	A1	A2	OR R^2	OR R^2	
1,2-Dibromoethane	12831	2ORDR	-3.49e-002	1.666e-004	2.454e-009	0.99801	0.99000	
Tetrachloro-M-Xylene	29470	2ORDR	-7.45e-003	2.122e-004	-1.41e-009	0.99321	0.99000	

FORM VI VOA

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

GC Column: SPB 608 ID: 0.53 (mm) Init. Calib. Date(s): 02/12/04 02/12/04

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 12.07

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	RT #
01	ICAL	0.02 PPB	02/12/04	1311	12.12	
02	ICAL	0.05 PPB	02/12/04	1330	12.11	
03	ICAL	0.1 PPB	02/12/04	1348	12.09	
04	ICAL	0.25 PPB	02/12/04	1406	12.09	
05	ICAL	0.5 PPB	02/12/04	1424	12.07	
06	ICAL	1.0 PPB	02/12/04	1443	12.07	
07	ICAL	2.5 PPB	02/12/04	1501	12.07	
08	WG5985-LCS	WG5985-2	02/12/04	1537	12.09	
09	WG5985-LCSD	WG5985-3	02/12/04	1556	12.08	
10	G01-MW-06-02	WU0334-1	02/12/04	1614	12.07	
11	G01-MW-09-02	WU0346-8	02/12/04	1632	12.04	
12	WG5985-BLANK	WG5985-1RA	02/12/04	2124	12.08	
13	CV	0.5 CV	02/12/04	2237	12.05	
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
TCX = Tetrachloro-M-Xylene (+/- 0.24 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

GC Column: RTX-CLP II ID: 0.53 (mm) Init. Calib. Date(s): 02/12/04 02/12/04

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION TCX: 11.40					
	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	RT #
01	ICAL	0.02 PPB	02/12/04	1311	11.44	
02	ICAL	0.05 PPB	02/12/04	1330	11.44	
03	ICAL	0.1 PPB	02/12/04	1348	11.43	
04	ICAL	0.25 PPB	02/12/04	1406	11.41	
05	ICAL	0.5 PPB	02/12/04	1424	11.40	
06	ICAL	1.0 PPB	02/12/04	1443	11.39	
07	ICAL	2.5 PPB	02/12/04	1501	11.39	
08	WG5985-LCS	WG5985-2	02/12/04	1537	11.43	
09	WG5985-LCSD	WG5985-3	02/12/04	1556	11.41	
10	G01-MW-06-02	WU0334-1	02/12/04	1614	11.39	
11	G01-MW-09-02	WU0346-8	02/12/04	1632	11.36	
12	WG5985-BLANK	WG5985-1RA	02/12/04	2124	11.40	
13	CV	0.5 CV	02/12/04	2237	11.37	
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
TCX = Tetrachloro-M-Xylene (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GC03 Calibration Date: 02/12/04 Time: 2237

Lab File ID: 3UB1132 Init. Calib. Date(s): 02/12/04 02/12/04

Init. Calib. Times: 1311 1501

GC Column: SPB 608 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
1,2-Dibromoethane	5.19e-002	0.5000000	8260.0000	0.01	-89.62	30.00	2RDR	<-
Tetrachloro-M-Xylene	0.4530600	1.2500000	14619.000	0.01	-63.76	30.00	2RDR	<-

FORM VII PEST

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GC03 Calibration Date: 02/12/04 Time: 2237

Lab File ID: 3UB2132 Init. Calib. Date(s): 02/12/04 02/12/04

Init. Calib. Times: 1311 1501

GC Column: RTX-CLP II ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
1,2-Dibromoethane	5.46e-002	0.5000000	754.00000	0.01	-89.08	30.00	2RDR	<-
Tetrachloro-M-Xylene	0.5347200	1.2500000	1491.2000	0.01	-57.22	30.00	2RDR	<-

FORM VII PEST

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

GC Column: SPB 608 ID: 0.53 (mm) Init. Calib. Date(s): 02/17/04 02/17/04

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 12.03

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	RT #
01	ICAL	0.02 PPB	02/17/04	1553	12.03	
02	ICAL	0.05 PPB	02/17/04	1611	12.03	
03	ICAL	0.1 PPB	02/17/04	1630	12.03	
04	ICAL	0.25 PPB	02/17/04	1648	12.03	
05	ICAL	0.5PPB	02/17/04	1706	12.03	
06	ICAL	1.0 PPB	02/17/04	1724	12.03	
07	ICAL	2.5 PPB	02/17/04	1743	12.01	
08	WG6088-BLANK	WG6088-1RA	02/17/04	1819	12.03	
09	WG6088-LCS	WG6088-2	02/17/04	1837	12.03	
10	WG6088-LCSD	WG6088-3	02/17/04	1856	12.03	
11	G01-MW-01A-0	WU0318-2RE	02/17/04	2009	12.03	
12	G01-MW-01-02	WU0318-3RE	02/17/04	2027	12.03	
13	G01-MW-03-02	WU0318-4RE	02/17/04	2045	12.03	
14	G01-MW-02-02	WU0318-5RE	02/17/04	2104	12.03	
15	G01-MW-04-02	WU0318-6RE	02/17/04	2122	12.01	
16	G01-MW-05-02	WU0334-2RE	02/17/04	2140	12.01	
17	G01-MW-11-02	WU0346-1RE	02/17/04	2158	12.01	
18	KW-DUP-02-02	WU0346-3RE	02/17/04	2217	12.03	
19	G01-MW-07-02	WU0346-5RE	02/17/04	2235	12.01	
20	G01-MW-10-02	WU0346-7RE	02/17/04	2253	12.01	

QC LIMITS
TCX = Tetrachloro-M-Xylene (+/- 0.24 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

GC Column: SPB 608 ID: 0.53 (mm) Init. Calib. Date(s): 02/17/04 02/17/04

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 12.03

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	RT #
01	G01-MW-09-02	WU0346-8RE	02/17/04	2311	12.01	
02	G01-MW-12-02	WU0346-9RE	02/17/04	2330	12.01	
03	G01-MW-08-02	WU0346-10RE	02/17/04	2348	12.03	
04	CV	CV 0.5 PPB	02/18/04	0006	12.03	
05	CV	CV 0.5 PPB	02/19/04	1003	12.00	
06	WG6134-BLANK	WG6134-1	02/19/04	1309	12.03	
07	WG6134-LCS	WG6134-2	02/19/04	1327	12.00	
08	WG6134-LCSD	WG6134-3	02/19/04	1345	11.99	
09	G01-MW-06-02	WU0334-1RE2	02/19/04	1403	12.00	
10	CV	CV 0.5 PPB	02/19/04	1441	12.01	
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
TCX = Tetrachloro-M-Xylene (+/- 0.24 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

GC Column: RTX-CLP II ID: 0.53 (mm) Init. Calib. Date(s): 02/17/04 02/17/04

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 11.33

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	RT #
01	ICAL	0.02 PPB	02/17/04	1553	11.33	
02	ICAL	0.05 PPB	02/17/04	1611	11.33	
03	ICAL	0.1 PPB	02/17/04	1630	11.33	
04	ICAL	0.25 PPB	02/17/04	1648	11.33	
05	ICAL	0.5PPB	02/17/04	1706	11.33	
06	ICAL	1.0 PPB	02/17/04	1724	11.33	
07	ICAL	2.5 PPB	02/17/04	1743	11.33	
08	WG6088-BLANK	WG6088-1RA	02/17/04	1819	11.33	
09	WG6088-LCS	WG6088-2	02/17/04	1837	11.33	
10	WG6088-LCSD	WG6088-3	02/17/04	1856	11.35	
11	G01-MW-01A-0	WU0318-2RE	02/17/04	2009	11.33	
12	G01-MW-01-02	WU0318-3RE	02/17/04	2027	11.33	
13	G01-MW-03-02	WU0318-4RE	02/17/04	2045	11.35	
14	G01-MW-02-02	WU0318-5RE	02/17/04	2104	11.33	
15	G01-MW-04-02	WU0318-6RE	02/17/04	2122	11.33	
16	G01-MW-05-02	WU0334-2RE	02/17/04	2140	11.33	
17	G01-MW-11-02	WU0346-1RE	02/17/04	2158	11.33	
18	KW-DUP-02-02	WU0346-3RE	02/17/04	2217	11.33	
19	G01-MW-07-02	WU0346-5RE	02/17/04	2235	11.33	
20	G01-MW-10-02	WU0346-7RE	02/17/04	2253	11.33	

QC LIMITS
TCX = Tetrachloro-M-Xylene (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

GC Column: RTX-CLP II ID: 0.53 (mm) Init. Calib. Date(s): 02/17/04 02/17/04

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 11.33

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	RT #
01	G01-MW-09-02	WU0346-8RE	02/17/04	2311	11.32	
02	G01-MW-12-02	WU0346-9RE	02/17/04	2330	11.32	
03	G01-MW-08-02	WU0346-10RE	02/17/04	2348	11.33	
04	CV	CV 0.5 PPB	02/18/04	0006	11.33	
05	CV	CV 0.5 PPB	02/19/04	1003	11.31	
06	WG6134-BLANK	WG6134-1	02/19/04	1309	11.33	
07	WG6134-LCS	WG6134-2	02/19/04	1327	11.31	
08	WG6134-LCSD	WG6134-3	02/19/04	1345	11.29	
09	G01-MW-06-02	WU0334-1RE2	02/19/04	1403	11.31	
10	CV	CV 0.5 PPB	02/19/04	1441	11.32	
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
TCX = Tetrachloro-M-Xylene (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GC03 Calibration Date: 02/18/04 Time: 0006

Lab File ID: 3UB1197 Init. Calib. Date(s): 02/17/04 02/17/04

Init. Calib. Times: 1553 1950

GC Column: SPB 608 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
1,2-Dibromoethane	0.5293300	0.5000000	52442.000	0.01	5.87	30.00	2RDR	
Tetrachloro-M-Xylene	1.9465000	1.2500000	53493.000	0.01	55.72	30.00	2RDR	<-

FORM VII PEST

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GC03 Calibration Date: 02/18/04 Time: 0006

Lab File ID: 3UB2197 Init. Calib. Date(s): 02/17/04 02/17/04

Init. Calib. Times: 1553 1743

GC Column: RTX-CLP II ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
1,2-Dibromoethane	0.5078900	0.5000000	6230.0000	0.01	1.58	30.00	2RDR	
Tetrachloro-M-Xylene	2.0171000	1.2500000	8192.8000	0.01	61.37	30.00	2RDR	<-

FORM VII PEST

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GC03 Calibration Date: 02/19/04 Time: 1003

Lab File ID: 3UB1222 Init. Calib. Date(s): 02/17/04 02/17/04

Init. Calib. Times: 1553 1950

GC Column: SPB 608 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
1,2-Dibromoethane	0.6260400	0.5000000	60448.000	0.01	25.21	30.00	2RDR	
Tetrachloro-M-Xylene	1.8248000	1.2500000	50129.000	0.01	45.98	30.00	2RDR	<-

FORM VII PEST

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GC03 Calibration Date: 02/19/04 Time: 1003

Lab File ID: 3UB2222 Init. Calib. Date(s): 02/17/04 02/17/04

Init. Calib. Times: 1553 1743

GC Column: RTX-CLP II ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2-Dibromoethane	0.5648800	0.5000000	6854.0000	0.01	12.98	30.00	2RDR
Tetrachloro-M-Xylene	1.5484000	1.2500000	6184.8000	0.01	23.87	30.00	2RDR

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GC03 Calibration Date: 02/19/04 Time: 1441

Lab File ID: 3UB1227 Init. Calib. Date(s): 02/17/04 02/17/04

Init. Calib. Times: 1553 1950

GC Column: SPB 608 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2-Dibromoethane	0.4466500	0.5000000	45350.000	0.01	-10.67	30.00	2RDR
Tetrachloro-M-Xylene	1.3723000	1.2500000	37515.000	0.01	9.78	30.00	2RDR

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

GC Column(1): SPB 608 ID: 0.53 (mm) GC Column(2): RTX-CLP IIID: 0.53 (mm)

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 TCX#	1|S1 TCX#	2|S2 #	1|S2 #	2|S3 #	1|S3 #	2|S4 #	1|S4 OUT
01	WG5985-LCS	WG5985-2	60	62						0
02	WG5985-LCSD	WG5985-3	68	72						0
03	G01-MW-06-0204	WU0334-1	51*	92						1
04	G01-MW-09-0204	WU0346-8	52*	32*						2
05	WG5985-BLANK	WG5985-1RA	20*	23*						2
06	WG6088-BLANK	WG6088-1RA	109	108						0
07	WG6088-LCS	WG6088-2	101	98						0
08	WG6088-LCSD	WG6088-3	117	113						0
09	G01-MW-01A-0204	WU0318-2RE	110	100						0
10	G01-MW-01-0204	WU0318-3RE	76	73						0
11	G01-MW-03-0204	WU0318-4RE	93	83						0
12	G01-MW-02-0204	WU0318-5RE	93	85						0
13	G01-MW-04-0204	WU0318-6RE	80	73						0
14	G01-MW-05-0204	WU0334-2RE	109	105						0
15	G01-MW-11-0204	WU0346-1RE	104	92						0
16	KW-DUP-02-0204	WU0346-3RE	128	121						0
17	G01-MW-07-0204	WU0346-5RE	86	79						0
18	G01-MW-10-0204	WU0346-7RE	124	109						0
19	G01-MW-09-0204	WU0346-8RE	124	106						0
20	G01-MW-12-0204	WU0346-9RE	113	100						0
21	G01-MW-08-0204	WU0346-10RE	122	119						0
22	WG6134-BLANK	WG6134-1	260*	200*						2
23	WG6134-LCS	WG6134-2	260*	207*						2
24	WG6134-LCSD	WG6134-3	235*	194*						2
25	G01-MW-06-0204	WU0334-1RE2	111	119						0
26										
27										
28										

S1 (TCX) = Tetrachloro-M-Xylene QC LIMITS (57-128)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 02/11/04
Analysis Date: 02/12/04
Report Date: 03/03/2004
Matrix: WATER

Lab ID: WG5985-2 & WG5985-3
Client ID: WG5985-LCS & WG5985-LCSD
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG5985
Units: ug/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
1,2-Dibromoethane	0.25	0.25	NA	0.14	0.14	* 54	* 58	6	30	70-130

FORM III SV-1

3UB1109.d & 3UB1110.d

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 02/17/04
Analysis Date: 02/17/04
Report Date: 03/03/2004
Matrix: WATER

Lab ID: WG6088-2 & WG6088-3
Client ID: WG6088-LCS & WG6088-LCSD
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG6088
Units: ug/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
1,2-Dibromoethane	0.25	0.25	NA	0.27	0.29	106	114	7	30	70-130

FORM III SV-1

3UB1179.d & 3UB1180.d

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 02/19/04
Analysis Date: 02/19/04
Report Date: 03/03/2004
Matrix: WATER

Lab ID: WG6134-2 & WG6134-3
Client ID: WG6134-LCS & WG6134-LCSD
SDG: CTO297-4
Extracted by: SAW
Extraction Method: 504.1
Analyst: JLP
Analysis Method: EPA 504.1
Lab Prep Batch: WG6134
Units: ug/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
1,2-Dibromoethane	0.25	0.25	NA	0.35	0.38	* 139	* 152	9	30	70-130

FORM III SV-1

3UB1224.d & 3UB1225.d

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEYWEST SDG No.: CTO297-4

Lab File ID (Standard): X4559 Date Analyzed: 03/02/04

Instrument ID: GCMS-X Time Analyzed: 1604

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
12 HOUR STD		24843		8.60		76353		11.45		36363		15.59	
UPPER LIMIT		49686		9.10		152706		11.95		72726		16.09	
LOWER LIMIT		12422		8.10		38177		10.95		18182		15.09	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	WG5895-BLANK	WG5895-1		26167		8.60		87569		11.45		39725		15.59	
02	WG5895-LCS	WG5895-2		24238		8.59		82725		11.45		39632		15.59	
03	WG5895-LCSD	WG5895-3		23826		8.60		77480		11.45		33401		15.59	
04	G01-MW-01A-0204	WU0318-2		23213		8.60		85825		11.45		40157		15.59	
05	G01-MW-03-0204	WU0318-4		22725		8.60		75107		11.45		37894		15.59	
06	G01-MW-02-0204	WU0318-5		23246		8.60		80439		11.45		38662		15.59	
07	G01-MW-04-0204	WU0318-6		26497		8.60		92112		11.45		46264		15.59	
08	WG6030-BLANK	WG6030-1		25355		8.60		82761		11.45		37167		15.59	
09	WG6030-LCS	WG6030-2		26120		8.60		88388		11.45		37544		15.59	
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEYWEST SDG No.: CTO297-4

Lab File ID (Standard): X4559 Date Analyzed: 03/02/04

Instrument ID: GCMS-X Time Analyzed: 1604

	IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
12 HOUR STD	62399		19.02		25293		25.32		10869		28.45	
UPPER LIMIT	124798		19.52		50586		25.82		21738		28.95	
LOWER LIMIT	31200		18.52		12647		24.82		5435		27.95	
	CLIENT SAMPLE ID	LAB SAMPLE ID										
01	WG5895-BLANK	WG5895-1	74803		19.01		24202		25.32		10017	28.45
02	WG5895-LCS	WG5895-2	77499		19.01		35991		25.32		12187	28.45
03	WG5895-LCSD	WG5895-3	64495		19.01		29100		25.32		10387	28.45
04	G01-MW-01A-0204	WU0318-2	73039		19.01		30093		25.32		10183	28.45
05	G01-MW-03-0204	WU0318-4	70543		19.01		31909		25.32		16740	28.45
06	G01-MW-02-0204	WU0318-5	72512		19.02		33177		25.32		12577	28.45
07	G01-MW-04-0204	WU0318-6	82365		19.01		39982		25.32		17192	28.45
08	WG6030-BLANK	WG6030-1	67794		19.02		20639		25.32		7779	28.45
09	WG6030-LCS	WG6030-2	66439		19.01		31789		25.31		13548	28.45
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG5895-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: X4560 Lab Sample ID: WG5895-1

Instrument ID: GCMS-X Date Extracted: 02/06/04

Matrix: (soil/water) WATER Date Analyzed: 03/02/04

Level: (low/med) LOW Time Analyzed: 1652

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG5895-LCS	WG5895-2	X4561	03/02/04	1736
02	WG5895-LCSD	WG5895-3	X4562	03/02/04	1821
03	G01-MW-01A-0204	WU0318-2	X4564	03/02/04	1949
04	G01-MW-03-0204	WU0318-4	X4566	03/02/04	2118
05	G01-MW-02-0204	WU0318-5	X4567	03/02/04	2202
06	G01-MW-04-0204	WU0318-6	X4568	03/02/04	2247
07	G01-MW-01-0204	WU0318-3RA	X4577	03/03/04	1200
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 02/06/04
Analysis Date: 03/02/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WG5895-1
Client ID: WG5895-Blank
SDG: CTO297-4
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5895
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.080
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.090
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.080
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
7297-45-2	2-Methylnaphthalene-d10		82%				
81103-79-9	Fluorene-d10		92%				
1718-52-1	Pyrene-d10		123%				

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEYWEST SDG No.: CTO297-4

Lab File ID (Standard): X4576 Date Analyzed: 03/03/04

Instrument ID: GCMS-X Time Analyzed: 1054

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
12 HOUR STD		15637		8.57		49752		11.42		28010		15.56	
UPPER LIMIT		31274		9.07		99504		11.92		56020		16.06	
LOWER LIMIT		7819		8.07		24876		10.92		14005		15.06	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	G01-MW-01-0204	WU0318-3RA		15340		8.57		53184		11.42		28250		15.56	
02	WG5943-BLANK	WG5943-1		15588		8.57		54222		11.43		29015		15.56	
03	WG5943-LCS	WG5943-2		15675		8.57		54024		11.42		26728		15.56	
04	B01-MW-03-0204MS	WG5943-3		16622		8.56		52536		11.42		27937		15.56	
05	B01-MW-03-0204MSD	WG5943-4		15993		8.56		55510		11.42		27988		15.56	
06	G01-MW-06-0204	WU0334-1		19357		8.56		60574		11.42		182259*		15.55	
07	G01-MW-05-0204	WU0334-2		14996		8.56		51751		11.42		30264		15.56	
08	B01-MW-01-0204	WU0334-4		15220		8.57		52398		11.42		30961		15.55	
09	B01-MW-03-0204	WU0334-5		15416		8.56		53128		11.42		30632		15.55	
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEYWEST SDG No.: CTO297-4

Lab File ID (Standard): X4576 Date Analyzed: 03/03/04

Instrument ID: GCMS-X Time Analyzed: 1054

		IS4 (PHN) AREA #	IS4 (PHN) RT #	IS5 (CRY) AREA #	IS5 (CRY) RT #	IS6 (PRY) AREA #	IS6 (PRY) RT #
12 HOUR STD		47017	18.99	20288	25.28	9828	28.42
UPPER LIMIT		94034	19.49	40576	25.78	19656	28.92
LOWER LIMIT		23509	18.49	10144	24.78	4914	27.92
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	G01-MW-01-0204	WU0318-3RA	50520	18.99	17835	25.29	7999	28.42
02	WG5943-BLANK	WG5943-1	52170	18.99	18812	25.29	8278	28.42
03	WG5943-LCS	WG5943-2	48476	18.99	21652	25.28	10273	28.42
04	B01-MW-03-0204MS	WG5943-3	50132	18.99	25508	25.28	12199	28.42
05	B01-MW-03-0204MSD	WG5943-4	51479	18.99	26030	25.28	14012	28.42
06	G01-MW-06-0204	WU0334-1	54236	18.99	41974*	25.28	28275*	28.42
07	G01-MW-05-0204	WU0334-2	51793	18.99	27388	25.28	17889	28.42
08	B01-MW-01-0204	WU0334-4	53467	18.99	25755	25.28	13084	28.42
09	B01-MW-03-0204	WU0334-5	49782	18.99	22235	25.28	10467	28.42
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEYWEST SDG No.: CTO297-4

Lab File ID (Standard): X4606 Date Analyzed: 03/04/04

Instrument ID: GCMS-X Time Analyzed: 1547

	IS1(DCB) AREA #	IS1(DCB) RT #	IS2(NPT) AREA #	IS2(NPT) RT #	IS3(ANT) AREA #	IS3(ANT) RT #
12 HOUR STD	17007	8.56	64835	11.42	30121	15.56
UPPER LIMIT	34014	9.06	129670	11.92	60242	16.06
LOWER LIMIT	8504	8.06	32418	10.92	15061	15.06
	CLIENT SAMPLE ID	LAB SAMPLE ID				
01	G01-MW-06-0204	WU0334-1DL	19116	8.56	65938	11.42	34083	15.56
02	G01-MW-05-0204	WU0334-2DL	20001	8.56	74477	11.42	38564	15.55
03	G01-MW-07-0204	WU0346-5DL	19444	8.56	71239	11.42	41072	15.55
04								
05								
06								
07								
08								
09								
10								
11								
12								
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14								
15								
16								
17								
18								
19								
20								

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEYWEST SDG No.: CTO297-4

Lab File ID (Standard): X4606 Date Analyzed: 03/04/04

Instrument ID: GCMS-X Time Analyzed: 1547

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
12 HOUR STD		54308		18.99		28532		25.28		16431		28.42	
UPPER LIMIT		108616		19.49		57064		25.78		32862		28.92	
LOWER LIMIT		27154		18.49		14266		24.78		8216		27.92	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	G01-MW-06-0204	WU0334-1DL		54599		18.99		28888		25.28		17274		28.42	
02	G01-MW-05-0204	WU0334-2DL		55152		18.99		24740		25.28		11014		28.42	
03	G01-MW-07-0204	WU0346-5DL		59699		18.99		25682		25.28		13072		28.42	
04															
05															
06															
07															
08															
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17															
18															
19															
20															

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEYWEST SDG No.: CTO297-4

Lab File ID (Standard): X4622 Date Analyzed: 03/05/04

Instrument ID: GCMS-X Time Analyzed: 0941

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD		22183	8.56	67504	11.41	31034	15.55
UPPER LIMIT		44366	9.06	135008	11.91	62068	16.05
LOWER LIMIT		11092	8.06	33752	10.91	15517	15.05
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	G01-MW-10-0204	WU0346-7DL2	21496	8.57	73711	11.42	38870	15.56
02	G01-MW-09-0204	WU0346-8DL2	22398	8.57	74489	11.42	40136	15.56
03	G01-MW-12-0204	WU0346-9DL2	21578	8.57	72616	11.42	36780	15.56
04	G01-MW-08-0204	WU0346-10DL2	19586	8.58	63738	11.43	29433	15.56
05	KW-DUP-02-0204	WU0346-3DL	22860	8.58	76668	11.43	39227	15.56
06								
07								
08								
09								
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18								
19								
20								

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEYWEST SDG No.: CTO297-4

Lab File ID (Standard): X4622 Date Analyzed: 03/05/04

Instrument ID: GCMS-X Time Analyzed: 0941

		IS4(PHN) AREA #		IS4(PHN) RT #	IS5(CRY) AREA #		IS5(CRY) RT #	IS6(PRY) AREA #		IS6(PRY) RT #
	12 HOUR STD			45949	18.99		21066	25.27		11032	28.41
	UPPER LIMIT			91898	19.49		42132	25.77		22064	28.91
	LOWER LIMIT			22975	18.49		10533	24.77		5516	27.91
	CLIENT SAMPLE ID	LAB SAMPLE ID									
01	G01-MW-10-0204	WU0346-7DL2		71652	18.99		30168	25.28		14813	28.42
02	G01-MW-09-0204	WU0346-8DL2		77433	18.99		34592	25.28		19419	28.42
03	G01-MW-12-0204	WU0346-9DL2		71977	18.99		31396	25.29		14950	28.42
04	G01-MW-08-0204	WU0346-10DL2		52540	18.99		18623	25.29		9087	28.42
05	KW-DUP-02-0204	WU0346-3DL		61817	18.99		26012	25.29		12391	28.43
06											
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IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEYWEST SDG No.: CTO297-4

Lab File ID (Standard): X4639 Date Analyzed: 03/06/04

Instrument ID: GCMS-X Time Analyzed: 1011

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
12 HOUR STD		20073		8.58		76288		11.43		38648		15.57	
UPPER LIMIT		40146		9.08		152576		11.93		77296		16.07	
LOWER LIMIT		10037		8.08		38144		10.93		19324		15.07	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	G01-MW-11-0204	WU0346-1DL2		22848		8.58		82515		11.44		40396		15.57	
02													
03													
04													
05													
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18													
19													
20													

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEYWEST SDG No.: CTO297-4

Lab File ID (Standard): X4639 Date Analyzed: 03/06/04

Instrument ID: GCMS-X Time Analyzed: 1011

	IS4(PHN) AREA #	IS4(PHN) RT #	IS5(CRY) AREA #	IS5(CRY) RT #	IS6(PRY) AREA #	IS6(PRY) RT #
12 HOUR STD	47527	18.99	17843	25.29	8658	28.43
UPPER LIMIT	95054	19.49	35686	25.79	17316	28.93
LOWER LIMIT	23764	18.49	8922	24.79	4329	27.93
CLIENT SAMPLE ID	LAB SAMPLE ID					
01 G01-MW-11-0204	WU0346-1DL2	55126	19.01	22111	25.31	8821	28.44
02							
03							
04							
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20							

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 2
WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEYWEST SDG No.: CTO297-4

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	WG5895-BLANK	WG5895-1	82	92	123						0
02	WG5895-LCS	WG5895-2	80	83	83						0
03	WG5895-LCSD	WG5895-3	85	90	96						0
04	G01-MW-01A-0204	WU0318-2	51	54	54						0
05	G01-MW-03-0204	WU0318-4	40	43	35						0
06	G01-MW-02-0204	WU0318-5	48	54	51						0
07	G01-MW-04-0204	WU0318-6	65	58	49						0
08	WG6030-BLANK	WG6030-1	69	78	118						0
09	WG6030-LCS	WG6030-2	74	76	74						0
10	G01-MW-01-0204	WU0318-3RA	58	57	71						0
11	WG5943-BLANK	WG5943-1	73	72	108						0
12	WG5943-LCS	WG5943-2	84	79	86						0
13	B01-MW-03-0204MS	WG5943-3	70	64	62						0
14	B01-MW-03-0204MSD	WG5943-4	85	79	78						0
15	G01-MW-06-0204	WU0334-1	93	22*	74						1
16	G01-MW-05-0204	WU0334-2	83	62	59						0
17	B01-MW-01-0204	WU0334-4	91	75	80						0
18	B01-MW-03-0204	WU0334-5	78	66	85						0
19	G01-MW-06-0204	WU0334-1DL	D	D	D						0
20	G01-MW-05-0204	WU0334-2DL	D	D	D						0
21	G01-MW-07-0204	WU0346-5DL	84	75	112						0
22	G01-MW-10-0204	WU0346-7DL2	D	D	D						0
23	G01-MW-09-0204	WU0346-8DL2	74	54	48						0
24	G01-MW-12-0204	WU0346-9DL2	D	D	D						0
25	G01-MW-08-0204	WU0346-10DL2	D	D	D						0
26	KW-DUP-02-0204	WU0346-3DL	D	D	D						0
27	G01-MW-11-0204	WU0346-1DL2	D	D	D						0
28											

		QC LIMITS
S1	= 2-Methylnaphthalene-d1	(30-150)
S2	= Fluorene-d10	(30-150)
S3	= Pyrene-d10	(30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG5943-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEYWEST SDG No.: CTO297-4

Lab File ID: X4580 Lab Sample ID: WG5943-1

Instrument ID: GCMS-X Date Extracted: 02/09/04

Matrix: (soil/water) WATER Date Analyzed: 03/03/04

Level: (low/med) LOW Time Analyzed: 1413

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG5943-LCS	WG5943-2	X4581	03/03/04	1457
02	B01-MW-03-0204MS	WG5943-3	X4582	03/03/04	1542
03	B01-MW-03-0204MSD	WG5943-4	X4583	03/03/04	1626
04	G01-MW-06-0204	WU0334-1	X4584	03/03/04	1711
05	G01-MW-05-0204	WU0334-2	X4585	03/03/04	1754
06	B01-MW-01-0204	WU0334-4	X4586	03/03/04	1838
07	B01-MW-03-0204	WU0334-5	X4587	03/03/04	1922
08	G01-MW-06-0204	WU0334-1DL	X4607	03/04/04	1636
09	G01-MW-05-0204	WU0334-2DL	X4608	03/04/04	1720
10					
11					
12					
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COMMENTS:

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 02/09/04
Analysis Date: 03/03/04
Report Date: 03/05/2004
Matrix: WATER
% Solids: NA

Lab ID: WG5943-1
Client ID: WG5943-Blank
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5943
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.080
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.090
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.080
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
7297-45-2	2-Methylnaphthalene-d10		73%				
81103-79-9	Fluorene-d10		72%				
1718-52-1	Pyrene-d10		108%				

Sample Data Summary A0000231

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG6030-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEYWEST SDG No.: CTO297-4

Lab File ID: X4569 Lab Sample ID: WG6030-1

Instrument ID: GCMS-X Date Extracted: 02/13/04

Matrix: (soil/water) WATER Date Analyzed: 03/02/04

Level: (low/med) LOW Time Analyzed: 2331

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG6030-LCS	WG6030-2	X4570	03/03/04	0016
02	G01-MW-07-0204	WU0346-5DL	X4609	03/04/04	1804
03	G01-MW-10-0204	WU0346-7DL2	X4628	03/05/04	1408
04	G01-MW-09-0204	WU0346-8DL2	X4629	03/05/04	1452
05	G01-MW-12-0204	WU0346-9DL2	X4630	03/05/04	1537
06	G01-MW-08-0204	WU0346-10DL2	X4631	03/05/04	1622
07	KW-DUP-02-0204	WU0346-3DL	X4633	03/05/04	1750
08	G01-MW-11-0204	WU0346-1DL2	X4647	03/06/04	1608
09					
10					
11					
12					
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COMMENTS:

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 297 NAS KEYWEST
PO No:
Sample Date:
Received Date:
Extraction Date: 02/13/04
Analysis Date: 03/02/04
Report Date: 03/08/2004
Matrix: WATER
% Solids: NA

Lab ID: WG6030-1
Client ID: WG6030-Blank
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG6030
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.080
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.090
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.080
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
7297-45-2	2-Methylnaphthalene-d10		69%				
81103-79-9	Fluorene-d10		78%				
1718-52-1	Pyrene-d10		118%				

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: XD198 DFTPP Injection Date: 03/02/04

Instrument ID: GCMS-X DFTPP Injection Time: 0943

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	51.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	50.0
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	40.0 - 60.0% of mass 198	40.8
197	Less than 1.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.2
275	10.0 - 30.0% of mass 198	21.7
365	1.0 - 100.0% of mass 198	2.3
441	0.0 - 100.0% of mass 443	8.4 (70.3)2
442	40.0 - 100.0% of mass 198	52.6
443	17.0 - 23.0% of mass 442	12.0 (22.7)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00X0302	X4553	03/02/04	1004
02		SSTD3.00X0302	X4554	03/02/04	1048
03		SSTD2.00X0302	X4555	03/02/04	1132
04		SSTD0.50X0302	X4556	03/02/04	1217
05		SSTD0.20X0302	X4557	03/02/04	1302
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FORM V SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-X Calibration Date(s): 03/02/04 03/02/04

Column: DB5-MS ID: 0.25 (mm) Calibration Time(s): 1004 1302

LAB FILE ID: RF0.2: X4557 RF0.5: X4556 RF1: X4553
RF2: X4555 RF3: X4554

COMPOUND	RF0.2	RF0.5	RF1	RF2	RF3	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
Naphthalene	0.901	0.946	1.032	0.864	0.879	AVRG		0.92443311	7.312	15.000
2-Methylnaphthalene	0.445	0.491	0.564	0.507	0.529	AVRG		0.50718778	8.723	15.000
Acenaphthylene	1.224	1.248	1.388	1.303	1.441	AVRG		1.32070789	6.971	15.000
Acenaphthene	1.266	1.102	1.135	0.992	1.050	AVRG		1.10894869	9.294	30.000
Fluorene	0.961	1.030	1.135	1.015	1.083	AVRG		1.04481436	6.380	15.000
Phenanthrene	0.828	0.801	0.902	0.778	0.848	AVRG		0.83157726	5.697	15.000
Anthracene	0.732	0.817	0.808	0.747	0.839	AVRG		0.78857615	5.868	15.000
Fluoranthene	0.497	0.533	0.644	0.575	0.702	AVRG		0.59017367	14.091	15.000
Pyrene	1.730	1.703	2.133	1.674	1.671	AVRG		1.78199651	11.083	15.000
Benzo(a)anthracene	0.594	0.603	0.676	0.560	0.603	AVRG		0.60743538	6.991	15.000
Chrysene	1.310	1.390	1.287	1.121	1.206	AVRG		1.26273221	8.129	15.000
Benzo(b)fluoranthene	0.886	1.043	1.304	1.030	1.197	AVRG		1.09203233	14.818	15.000
Benzo(k)fluoranthene	2537	10314	22134	44639	73287	LINR	0.10886160	0.40976660	0.99909	0.99000
Benzo(a)pyrene	1225	6270	10854	22621	37624	LINR	9.546e-002	0.80600742	0.99958	0.99000
Indeno(1,2,3-cd)pyrene	0.702	0.720	0.688	0.673	0.692	AVRG		0.69507567	2.459	15.000
Dibenzo(a,h)anthracene	0.553	0.468	0.462	0.501	0.473	AVRG		0.49136148	7.654	15.000
Benzo(g,h,i)perylene	0.869	0.738	0.726	0.770	0.701	AVRG		0.76097786	8.568	15.000
1-Methylnaphthalene	0.489	0.492	0.566	0.496	0.523	AVRG		0.51353506	6.339	15.000
2-Methylnaphthalene-d10	0.304	0.394	0.378	0.360	0.371	AVRG		0.36128579	9.539	15.000
Fluorene-d10	1.010	1.168	1.234	1.092	1.164	AVRG		1.13366194	7.524	15.000
Pyrene-d10	1.287	1.262	1.472	1.323	1.287	AVRG		1.32594660	6.364	15.000

Average %RSD test result.

Calculate Average %RSD: 10.57689476
Maximum Average %RSD: 30.00000000

Note: Passes Average %RSD Test.

FORM VI SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEYWEST SDG No.: CTO297-4

Lab File ID: XD199 DFTPP Injection Date: 03/02/04

Instrument ID: GCMS-X DFTPP Injection Time: 1542

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	56.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	59.5
70	Less than 2.0% of mass 69	0.9 (1.5)1
127	40.0 - 60.0% of mass 198	42.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	23.7
365	1.0 - 100.0% of mass 198	2.5
441	0.0 - 100.0% of mass 443	11.2 (85.9)2
442	40.0 - 100.0% of mass 198	63.1
443	17.0 - 23.0% of mass 442	13.1 (20.7)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00X0302	X4559	03/02/04	1604
02	WG5895-BLANK	WG5895-1	X4560	03/02/04	1652
03	WG5895-LCS	WG5895-2	X4561	03/02/04	1736
04	WG5895-LCSD	WG5895-3	X4562	03/02/04	1821
05	G01-MW-01A-0204	WU0318-2	X4564	03/02/04	1949
06	G01-MW-03-0204	WU0318-4	X4566	03/02/04	2118
07	G01-MW-02-0204	WU0318-5	X4567	03/02/04	2202
08	G01-MW-04-0204	WU0318-6	X4568	03/02/04	2247
09	WG6030-BLANK	WG6030-1	X4569	03/02/04	2331
10	WG6030-LCS	WG6030-2	X4570	03/03/04	0016
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FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-X Calibration Date: 03/02/04 Time: 1604

Lab File ID: X4559 Init. Calib. Date(s): 03/02/04 03/02/04

Init. Calib. Times: 1004 1302

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Naphthalene	0.9240000	0.9959000	0.9959000	0.01	7.78	100.00	AVRG
2-Methylnaphthalene	0.5070000	0.5629700	0.5629700	0.01	11.04	100.00	AVRG
Acenaphthylene	1.3210000	1.3281000	1.3281000	0.01	0.54	100.00	AVRG
Acenaphthene	1.1090000	1.0922000	1.0922000	0.01	-1.51	20.00	AVRG
Fluorene	1.0450000	1.1766000	1.1766000	0.01	12.59	100.00	AVRG
Phenanthrene	0.8310000	0.9031600	0.9031600	0.01	8.68	100.00	AVRG
Anthracene	0.7890000	0.8260800	0.8260800	0.01	4.70	100.00	AVRG
Fluoranthene	0.5900000	0.6038300	0.6038300	0.01	2.34	20.00	AVRG
Pyrene	1.7820000	1.9496000	1.9496000	0.01	9.40	100.00	AVRG
Benzo(a)anthracene	0.6070000	0.6566600	0.6566600	0.01	8.18	100.00	AVRG
Chrysene	1.2630000	1.2589000	1.2589000	0.01	-0.32	100.00	AVRG
Benzo(b)fluoranthene	1.0920000	1.2761000	1.2761000	0.01	16.86	100.00	AVRG
Benzo(k)fluoranthene	1.0865000	1.0000000	2.4390000	0.01	8.65	100.00	LINR
Benzo(a)pyrene	1.0915000	1.0000000	1.2595000	0.01	9.15	20.00	LINR
Indeno(1,2,3-cd)pyrene	0.6950000	0.7439900	0.7439900	0.01	7.05	100.00	AVRG
Dibenzo(a,h)anthracene	0.4910000	0.5044800	0.5044800	0.01	2.74	100.00	AVRG
Benzo(g,h,i)perylene	0.7610000	0.8370200	0.8370200	0.01	9.99	100.00	AVRG
1-Methylnaphthalene	0.5130000	0.5678400	0.5678400	0.01	10.69	100.00	AVRG
2-Methylnaphthalene-d10	0.3610000	0.3873100	0.3873100	0.01	7.29	100.00	AVRG
Fluorene-d10	1.1340000	1.2047000	1.2047000	0.01	6.23	100.00	AVRG
Pyrene-d10	1.3260000	1.3807000	1.3807000	0.01	4.12	100.00	AVRG

FORM VII PEST

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO297 NAS KEYWEST SDG No.: CTO297-4

Lab File ID: XD200 DFTPP Injection Date: 03/03/04

Instrument ID: GCMS-X DFTPP Injection Time: 0827

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	54.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	56.3
70	Less than 2.0% of mass 69	0.7 (1.3)1
127	40.0 - 60.0% of mass 198	42.7
197	Less than 1.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	24.1
365	1.0 - 100.0% of mass 198	2.6
441	0.0 - 100.0% of mass 443	11.8 (86.6)2
442	40.0 - 100.0% of mass 198	66.9
443	17.0 - 23.0% of mass 442	13.6 (20.3)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00X0303	X4576	03/03/04	1054
02	G01-MW-01-0204	WU0318-3RA	X4577	03/03/04	1200
03	WG5943-BLANK	WG5943-1	X4580	03/03/04	1413
04	WG5943-LCS	WG5943-2	X4581	03/03/04	1457
05	B01-MW-03-0204MS	WG5943-3	X4582	03/03/04	1542
06	B01-MW-03-0204MSD	WG5943-4	X4583	03/03/04	1626
07	G01-MW-06-0204	WU0334-1	X4584	03/03/04	1711
08	G01-MW-05-0204	WU0334-2	X4585	03/03/04	1754
09	B01-MW-01-0204	WU0334-4	X4586	03/03/04	1838
10	B01-MW-03-0204	WU0334-5	X4587	03/03/04	1922
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FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-X Calibration Date: 03/03/04 Time: 1054

Lab File ID: X4576 Init. Calib. Date(s): 03/02/04 03/02/04

Init. Calib. Times: 1004 1302

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Naphthalene	0.9240000	0.9429300	0.9429300	0.01	2.05	100.00	AVRG
2-Methylnaphthalene	0.5070000	0.5782900	0.5782900	0.01	14.06	100.00	AVRG
Acenaphthylene	1.3210000	1.4037000	1.4037000	0.01	6.26	100.00	AVRG
Acenaphthene	1.1090000	0.9394400	0.9394400	0.01	-15.29	20.00	AVRG
Fluorene	1.0450000	0.9846800	0.9846800	0.01	-5.77	100.00	AVRG
Phenanthrene	0.8310000	0.8478500	0.8478500	0.01	2.03	100.00	AVRG
Anthracene	0.7890000	0.6264800	0.6264800	0.01	-20.60	100.00	AVRG
Fluoranthene	0.5900000	0.6012100	0.6012100	0.01	1.90	20.00	AVRG
Pyrene	1.7820000	1.7035000	1.7035000	0.01	-4.40	100.00	AVRG
Benzo(a)anthracene	0.6070000	0.6036300	0.6036300	0.01	-0.56	100.00	AVRG
Chrysene	1.2630000	1.0505000	1.0505000	0.01	-16.82	100.00	AVRG
Benzo(b)fluoranthene	1.0920000	0.9319500	0.9319500	0.01	-14.66	100.00	AVRG
Benzo(k)fluoranthene	0.8642300	1.0000000	1.8965000	0.01	-13.58	100.00	LINR
Benzo(a)pyrene	0.8918200	1.0000000	1.0117000	0.01	-10.82	20.00	LINR
Indeno(1,2,3-cd)pyrene	0.6950000	0.4299600	0.4299600	0.01	-38.14	100.00	AVRG
Dibenzo(a,h)anthracene	0.4910000	0.4441200	0.4441200	0.01	-9.55	100.00	AVRG
Benzo(g,h,i)perylene	0.7610000	0.8107400	0.8107400	0.01	6.54	100.00	AVRG
1-Methylnaphthalene	0.5130000	0.5634500	0.5634500	0.01	9.83	100.00	AVRG
2-Methylnaphthalene-d10	0.3610000	0.4160200	0.4160200	0.01	15.24	100.00	AVRG
Fluorene-d10	1.1340000	1.0110000	1.0110000	0.01	-10.85	100.00	AVRG
Pyrene-d10	1.3260000	1.2247000	1.2247000	0.01	-7.64	100.00	AVRG

FORM VII PEST

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEYWEST SDG No.: CTO297-4

Lab File ID: XD203 DFTPP Injection Date: 03/04/04

Instrument ID: GCMS-X DFTPP Injection Time: 1527

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	54.3
70	Less than 2.0% of mass 69	0.5 (0.9)1
127	40.0 - 60.0% of mass 198	42.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.5
275	10.0 - 30.0% of mass 198	23.8
365	1.0 - 100.0% of mass 198	2.3
441	0.0 - 100.0% of mass 443	11.2 (80.5)2
442	40.0 - 100.0% of mass 198	74.2
443	17.0 - 23.0% of mass 442	13.8 (18.7)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00X0304	X4606	03/04/04	1547
02	G01-MW-06-0204	WU0334-1DL	X4607	03/04/04	1636
03	G01-MW-05-0204	WU0334-2DL	X4608	03/04/04	1720
04	G01-MW-07-0204	WU0346-5DL	X4609	03/04/04	1804
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FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-X Calibration Date: 03/04/04 Time: 1547

Lab File ID: X4606 Init. Calib. Date(s): 03/02/04 03/02/04

Init. Calib. Times: 1004 1302

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Naphthalene	0.9240000	0.8731800	0.8731800	0.01	-5.50	100.00	AVRG
2-Methylnaphthalene	0.5070000	0.5290500	0.5290500	0.01	4.35	100.00	AVRG
Acenaphthylene	1.3210000	1.3496000	1.3496000	0.01	2.16	100.00	AVRG
Acenaphthene	1.1090000	1.0388000	1.0388000	0.01	-6.33	20.00	AVRG
Fluorene	1.0450000	1.0847000	1.0847000	0.01	3.80	100.00	AVRG
Phenanthrene	0.8310000	0.8359300	0.8359300	0.01	0.59	100.00	AVRG
Anthracene	0.7890000	0.7337300	0.7337300	0.01	-7.00	100.00	AVRG
Fluoranthene	0.5900000	0.6897400	0.6897400	0.01	16.90	20.00	AVRG
Pyrene	1.7820000	1.5444000	1.5444000	0.01	-13.33	100.00	AVRG
Benzo(a)anthracene	0.6070000	0.6935600	0.6935600	0.01	14.26	100.00	AVRG
Chrysene	1.2630000	1.2435000	1.2435000	0.01	-1.54	100.00	AVRG
Benzo(b)fluoranthene	1.0920000	1.3342000	1.3342000	0.01	22.18	100.00	AVRG
Benzo(k)fluoranthene	0.9834400	1.0000000	2.1875000	0.01	-1.66	100.00	LINR
Benzo(a)pyrene	1.0570000	1.0000000	1.2166000	0.01	5.70	20.00	LINR
Indeno(1,2,3-cd)pyrene	0.6950000	1.0712000	1.0712000	0.01	54.13	100.00	AVRG
Dibenzo(a,h)anthracene	0.4910000	0.6490200	0.6490200	0.01	32.19	100.00	AVRG
Benzo(g,h,i)perylene	0.7610000	1.0956000	1.0956000	0.01	43.97	100.00	AVRG
1-Methylnaphthalene	0.5130000	0.5173200	0.5173200	0.01	0.84	100.00	AVRG
2-Methylnaphthalene-d10	0.3610000	0.3865600	0.3865600	0.01	7.08	100.00	AVRG
Fluorene-d10	1.1340000	1.1663000	1.1663000	0.01	2.85	100.00	AVRG
Pyrene-d10	1.3260000	1.1678000	1.1678000	0.01	-11.93	100.00	AVRG

FORM VII PEST

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEYWEST SDG No.: CTO297-4

Lab File ID: XD204 DFTPP Injection Date: 03/05/04

Instrument ID: GCMS-X DFTPP Injection Time: 0918

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.7
68	Less than 2.0% of mass 69	1.0 (1.6)1
69	Less than 100.0% of mass 198	60.2
70	Less than 2.0% of mass 69	0.6 (1.1)1
127	40.0 - 60.0% of mass 198	46.1
197	Less than 1.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.7
275	10.0 - 30.0% of mass 198	21.5
365	1.0 - 100.0% of mass 198	1.9
441	0.0 - 100.0% of mass 443	8.8 (80.8)2
442	40.0 - 100.0% of mass 198	55.5
443	17.0 - 23.0% of mass 442	10.8 (19.5)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00X0305	X4622	03/05/04	0941
02	G01-MW-10-0204	WU0346-7DL2	X4628	03/05/04	1408
03	G01-MW-09-0204	WU0346-8DL2	X4629	03/05/04	1452
04	G01-MW-12-0204	WU0346-9DL2	X4630	03/05/04	1537
05	G01-MW-08-0204	WU0346-10DL2	X4631	03/05/04	1622
06	KW-DUP-02-0204 ✓	WU0346-3DL	X4633	03/05/04	1750
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FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEYWEST SDG No.: CTO297-4

Instrument ID: GCMS-X Calibration Date: 03/05/04 Time: 0941

Lab File ID: X4622 Init. Calib. Date(s): 03/02/04 03/02/04

Init. Calib. Times: 1004 1302

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Naphthalene	0.9240000	0.9681100	0.9681100	0.01	4.77	100.00	AVRG
2-Methylnaphthalene	0.5070000	0.5489100	0.5489100	0.01	8.27	100.00	AVRG
Acenaphthylene	1.3210000	1.3041000	1.3041000	0.01	-1.28	100.00	AVRG
Acenaphthene	1.1090000	1.1156000	1.1156000	0.01	0.60	20.00	AVRG
Fluorene	1.0450000	1.0985000	1.0985000	0.01	5.12	100.00	AVRG
Phenanthrene	0.8310000	0.9686700	0.9686700	0.01	16.57	100.00	AVRG
Anthracene	0.7890000	0.7915900	0.7915900	0.01	0.33	100.00	AVRG
Fluoranthene	0.5900000	0.6504400	0.6504400	0.01	10.24	20.00	AVRG
Pyrene	1.7820000	1.9814000	1.9814000	0.01	11.19	100.00	AVRG
Benzo(a)anthracene	0.6070000	0.6005100	0.6005100	0.01	-1.07	100.00	AVRG
Chrysene	1.2630000	1.2860000	1.2860000	0.01	1.82	100.00	AVRG
Benzo(b)fluoranthene	1.0920000	1.0732000	1.0732000	0.01	-1.72	100.00	AVRG
Benzo(k)fluoranthene	0.9027900	1.0000000	1.9906000	0.01	-9.72	100.00	LINR
Benzo(a)pyrene	0.9364400	1.0000000	1.0671000	0.01	-6.36	20.00	LINR
Indeno(1,2,3-cd)pyrene	0.6950000	0.7709200	0.7709200	0.01	10.92	100.00	AVRG
Dibenzo(a,h)anthracene	0.4910000	0.5002200	0.5002200	0.01	1.88	100.00	AVRG
Benzo(g,h,i)perylene	0.7610000	0.9570700	0.9570700	0.01	25.76	100.00	AVRG
1-Methylnaphthalene	0.5130000	0.5608600	0.5608600	0.01	9.33	100.00	AVRG
2-Methylnaphthalene-d10	0.3610000	0.3454800	0.3454800	0.01	-4.30	100.00	AVRG
Fluorene-d10	1.1340000	0.9958100	0.9958100	0.01	-12.19	100.00	AVRG
Pyrene-d10	1.3260000	1.2911000	1.2911000	0.01	-2.63	100.00	AVRG

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEYWEST SDG No.: CTO297-4

Lab File ID: XD205 DFTPP Injection Date: 03/06/04

Instrument ID: GCMS-X DFTPP Injection Time: 0906

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	53.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	62.6
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	40.0 - 60.0% of mass 198	45.9
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.8
275	10.0 - 30.0% of mass 198	21.5
365	1.0 - 100.0% of mass 198	2.3
441	0.0 - 100.0% of mass 443	9.3 (83.9)2
442	40.0 - 100.0% of mass 198	57.1
443	17.0 - 23.0% of mass 442	11.1 (19.5)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00X0306	X4639	03/06/04	1011
02		SSTD3.00X0306	X4640	03/06/04	1057
03		SSTD2.00X0306	X4641	03/06/04	1141
04		SSTD0.50X0306	X4642	03/06/04	1226
05		SSTD0.20X0306	X4643	03/06/04	1310
06	G01-MW-11-0204	WU0346-1DL2	X4647	03/06/04	1608
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FORM V SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 297 NAS KEYWEST SDG No.: CTO297-4

Instrument ID: GCMS-X Calibration Date(s): 03/06/04 03/06/04

Column: DB5-MS ID: 0.25 (mm) Calibration Time(s): 1011 1310

LAB FILE ID: RF0.2: X4643 RF0.5: X4642 RF1: X4639
RF2: X4641 RF3: X4640

COMPOUND	RF0.2	RF0.5	RF1	RF2	RF3	CURVE	COEFFICENTS A0	COEFFICENTS A1	COEFFICENTS A2	%RSD OR R^2	MAX %RSD OR R^2
Naphthalene	0.891	0.866	0.807	0.798	0.721	AVRG		0.81685070		8.121	15.000
2-Methylnaphthalene	0.471	0.477	0.502	0.485	0.456	AVRG		0.47824810		3.498	15.000
Acenaphthylene	1.028	1.060	1.250	1.235	1.293	AVRG		1.17319013		10.252	15.000
Acenaphthene	0.965	0.916	0.869	0.901	0.882	AVRG		0.90660212		4.088	30.000
Fluorene	0.804	0.883	0.855	0.951	0.938	AVRG		0.88618113		6.814	15.000
Phenanthrene	1.116	1.051	0.981	1.140	1.036	AVRG		1.06492703		6.009	15.000
Anthracene	0.828	0.758	0.838	0.970	0.953	AVRG		0.86927290		10.354	15.000
Fluoranthene	0.574	0.587	0.605	0.731	0.741	AVRG		0.64775461		12.622	15.000
Pyrene	1.883	2.057	1.836	1.859	1.614	AVRG		1.84981700		8.552	15.000
Benzo(a)anthracene	0.692	0.582	0.610	0.640	0.710	AVRG		0.64716532		8.340	15.000
Chrysene	1.344	1.216	1.147	1.264	1.187	AVRG		1.23165096		6.149	15.000
Benzo(b)fluoranthene	1.086	1.117	0.969	1.023	1.060	AVRG		1.05084609		5.446	15.000
Benzo(k)fluoranthene	1.790	1.646	1.763	1.996	2.015	AVRG		1.84192387		8.622	15.000
Benzo(a)pyrene	0.926	0.967	1.013	1.114	1.189	AVRG		1.04188725		10.375	30.000
Indeno(1,2,3-cd)pyrene	0.763	0.803	0.645	0.813	0.905	AVRG		0.78573438		12.000	15.000
Dibenzo(a,h)anthracene	894	2348	4297	13485	31223	2ORDR	2.674e-003	2.34723732	-0.3228438	0.99535	0.99000
Benzo(g,h,i)perylene	0.855	0.920	0.798	1.017	0.999	AVRG		0.91787578		10.158	15.000
1-Methylnaphthalene	0.477	0.478	0.489	0.470	0.443	AVRG		0.47167964		3.673	15.000
2-Methylnaphthalene-d10	0.343	0.363	0.369	0.357	0.325	AVRG		0.35173762		5.004	15.000
Fluorene-d10	0.801	0.896	0.894	0.968	0.952	AVRG		0.90220485		7.255	15.000
Pyrene-d10	1.306	1.421	1.348	1.350	1.228	AVRG		1.33053601		5.293	15.000

Average %RSD test result.

Calculate Average %RSD: 10.80087280
Maximum Average %RSD: 30.00000000

Note: Passes Average %RSD Test.

FORM VI SV

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Tetra Tech NUS, Inc
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date: 02/05/04
Received Date: 02/06/04
Extraction Date: 02/09/04
Analysis Date: 03/03/04
Report Date: 03/05/2004
Matrix: WATER

Lab ID: WG5943-3 & WG5943-4
Client ID: B01-MW-03-0204MS & B01-MW-03-0204MSD
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5943
Units: ug/L

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.		MSD %REC.		%RPD	%RPD LIMIT	QC. LIMITS
Naphthalene	1.9	1.9	0.00	1.2	1.4	64		72		12	30	30-150
2-Methylnaphthalene	1.9	1.9	0.00	1.3	1.6	69		83		19	30	30-150
Acenaphthylene	1.9	1.9	0.00	1.3	1.6	69		86		22	30	30-150
Acenaphthene	1.9	1.9	0.00	1.1	1.3	58		70		19	30	30-150
Fluorene	1.9	1.9	0.00	1.3	1.5	67		81		18	30	30-150
Phenanthrene	1.9	1.9	0.00	1.2	1.4	61		74		19	30	30-150
Anthracene	1.9	1.9	0.00	1.1	1.3	56		70		23	30	30-150
Fluoranthene	1.9	1.9	0.00	1.6	2.0	86		107		22	30	30-150
Pyrene	1.9	1.9	0.00	1.0	1.3	55		67		20	30	30-150
Benzo(a)anthracene	1.9	1.9	0.00	1.4	1.8	71		97		30	30	30-150
Chrysene	1.9	1.9	0.00	1.0	1.3	52		68		25	30	30-150
Benzo(b)fluoranthene	1.9	1.9	0.00	0.49	0.71	*	26	37	*	38	30	30-150
Benzo(k)fluoranthene	1.9	1.9	0.00	0.67	0.84		35	44		23	30	30-150
Benzo(a)pyrene	1.9	1.9	0.00	0.68	0.71		36	37		4	30	30-150
Indeno(1,2,3-cd)pyrene	1.9	1.9	0.00	0.29	0.59	*	15	31	*	68	30	30-150
Dibenzo(a,h)anthracene	1.9	1.9	0.00	0.27	0.47	*	14	25	*	56	30	30-150
Benzo(g,h,i)perylene	1.9	1.9	0.00	0.31	0.47	*	16	25	*	42	30	30-150

FORM III SV-1

X4582.D & X4583.D

Sample Data Summary A0000237

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG5942-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: X4719 Lab Sample ID: WG5942-1

Instrument ID: GCMS-X Date Extracted: 02/09/04

Matrix: (soil/water) WATER Date Analyzed: 03/11/04

Level: (low/med) LOW Time Analyzed: 1117

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG5942-LCS	WG5942-2	X4720	03/11/04	1202
02	WG5942-LCSD	WG5942-3	X4721	03/11/04	1247
03	G01-MW-06-0204	WU0334-6RA	X4729	03/11/04	1852
04					
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COMMENTS:

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 02/09/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WG5942-1
Client ID: WG5942-Blank
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG5942
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	10	1.0	10	10	6
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	3
95-57-8	2-Chlorophenol	U	10	1.0	10	10	5
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	3
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	3
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	3
95-48-7	2-Methylphenol	U	10	1.0	10	10	5
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	10	1.0	10	10	2
106-44-5	4-Methylphenol	U	10	1.0	10	10	5
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	2
67-72-1	Hexachloroethane	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	3
78-59-1	Isophorone	U	10	1.0	10	10	2
88-75-5	2-Nitrophenol	U	10	1.0	10	10	6
105-67-9	2,4-Dimethylphenol	U	10	1.0	10	10	8
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	3
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	6
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	3
91-20-3	Naphthalene	U	10	1.0	10	10	3
106-47-8	4-Chloroaniline	U	10	1.0	10	10	4
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	4
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	6
91-57-6	2-Methylnaphthalene	U	10	1.0	10	10	5
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	2
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	8
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	7
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	3
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	3
208-96-8	Acenaphthylene	U	10	1.0	10	10	3
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	3
99-09-2	3-Nitroaniline	U	25	1.0	25	25	3
83-32-9	Acenaphthene	U	10	1.0	10	10	2
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
100-02-7	4-Nitrophenol	U	25	1.0	25	25	6
132-64-9	Dibenzofuran	U	10	1.0	10	10	4
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	4
84-66-2	Diethylphthalate	U	10	1.0	10	10	2
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	3
86-73-7	Fluorene	U	10	1.0	10	10	3
100-01-6	4-Nitroaniline	U	25	1.0	25	25	5
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	10
86-30-6	N-Nitrosodiphenylamine	U	10	1.0	10	10	8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 02/09/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WG5942-1
Client ID: WG5942-Blank
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG5942
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	5
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	4
87-86-5	Pentachlorophenol	U	25	1.0	25	25	9
85-01-8	Phenanthrene	U	10	1.0	10	10	3
120-12-7	Anthracene	U	10	1.0	10	10	3
86-74-8	Carbazole	U	10	1.0	10	10	4
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	3
129-00-0	Pyrene	U	10	1.0	10	10	4
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	3
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	4
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	3
218-01-9	Chrysene	U	10	1.0	10	10	3
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	8
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	3
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	2
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	3
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	2
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	2
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	2
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	2
367-12-4	2-Fluorophenol		57%				
13127-88-3	Phenol-D6		39%				
4165-60-0	Nitrobenzene-D5		80%				
321-60-8	2-Fluorobiphenyl		* 92%				
118-79-6	2,4,6-Tribromophenol		*113%				
1718-51-0	Terphenyl-D14		99%				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

WG5942-Blank

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Matrix: (soil/water) WATER Lab Sample ID: WG5942-1

Sample wt/vol: 1.000 (g/L) L Lab File ID: X4719

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/09/04

Concentrated Extract Volume: 0.0010 (L) Date Analyzed: 03/11/04

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		C8H18 ISOMER	2.35	200	J
2.		UNKNOWN	5.22	80	J
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FORM I SV-TIC

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG6031-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: X4722 Lab Sample ID: WG6031-1

Instrument ID: GCMS-X Date Extracted: 02/13/04

Matrix: (soil/water) WATER Date Analyzed: 03/11/04

Level: (low/med) LOW Time Analyzed: 1333

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG6031-LCS	WG6031-2	X4723	03/11/04	1418
02	WG6031-LCSD	WG6031-3	X4724	03/11/04	1503
03	G01-MW-11-0204	WU0346-2	X4726	03/11/04	1635
04	KW-DUP-02-0204	WU0346-4	X4727	03/11/04	1721
05	G01-MW-07-0204	WU0346-6	X4728	03/11/04	1806
06	G01-MW-11-0204	WU0346-2RA	X4730	03/11/04	1937
07	KW-DUP-02-0204	WU0346-4RA	X4731	03/11/04	2022
08	G01-MW-07-0204	WU0346-6RA	X4732	03/11/04	2108
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COMMENTS:

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 02/13/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WG6031-1
Client ID: WG6031-Blank
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG6031
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	10	1.0	10	10	6
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	3
95-57-8	2-Chlorophenol	U	10	1.0	10	10	5
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	3
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	3
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	3
95-48-7	2-Methylphenol	U	10	1.0	10	10	5
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	10	1.0	10	10	2
106-44-5	4-Methylphenol	U	10	1.0	10	10	5
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	2
67-72-1	Hexachloroethane	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	3
78-59-1	Isophorone	U	10	1.0	10	10	2
88-75-5	2-Nitrophenol	U	10	1.0	10	10	6
105-67-9	2,4-Dimethylphenol	U	10	1.0	10	10	8
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	3
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	6
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	3
91-20-3	Naphthalene	U	10	1.0	10	10	3
106-47-8	4-Chloroaniline	U	10	1.0	10	10	4
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	4
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	6
91-57-6	2-Methylnaphthalene	U	10	1.0	10	10	5
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	2
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	8
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	7
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	3
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	3
208-96-8	Acenaphthylene	U	10	1.0	10	10	3
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	3
99-09-2	3-Nitroaniline	U	25	1.0	25	25	3
83-32-9	Acenaphthene	U	10	1.0	10	10	2
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
100-02-7	4-Nitrophenol	U	25	1.0	25	25	6
132-64-9	Dibenzofuran	U	10	1.0	10	10	4
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	4
84-66-2	Diethylphthalate	U	10	1.0	10	10	2
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	3
86-73-7	Fluorene	U	10	1.0	10	10	3
100-01-6	4-Nitroaniline	U	25	1.0	25	25	5
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	10
86-30-6	N-Nitrosodiphenylamine	U	10	1.0	10	10	8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 02/13/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER
% Solids: NA

Lab ID: WG6031-1
Client ID: WG6031-Blank
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG6031
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	5
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	4
87-86-5	Pentachlorophenol	U	25	1.0	25	25	9
85-01-8	Phenanthrene	U	10	1.0	10	10	3
120-12-7	Anthracene	U	10	1.0	10	10	3
86-74-8	Carbazole	U	10	1.0	10	10	4
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	3
129-00-0	Pyrene	U	10	1.0	10	10	4
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	3
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	4
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	3
218-01-9	Chrysene	U	10	1.0	10	10	3
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	8
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	3
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	2
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	3
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	2
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	2
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	2
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	2
367-12-4	2-Fluorophenol		53%				
13127-88-3	Phenol-D6		38%				
4165-60-0	Nitrobenzene-D5		73%				
321-60-8	2-Fluorobiphenyl		* 92%				
118-79-6	2,4,6-Tribromophenol		102%				
1718-51-0	Terphenyl-D14		93%				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

WG6031-Blank

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Matrix: (soil/water) WATER Lab Sample ID: WG6031-1

Sample wt/vol: 1.000 (g/L) L Lab File ID: X4722

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/13/04

Concentrated Extract Volume: 0.0010 (L) Date Analyzed: 03/11/04

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKANE	2.34	400	J
2.		UNKNOWN	5.23	90	J
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FORM I SV-TIC

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: XD210 DFTPP Injection Date: 03/09/04

Instrument ID: GCMS-X DFTPP Injection Time: 1044

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	58.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	66.8
70	Less than 2.0% of mass 69	0.5 (0.7)1
127	40.0 - 60.0% of mass 198	47.0
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	20.3
365	1.0 - 100.0% of mass 198	1.8
441	0.0 - 100.0% of mass 443	6.6 (84.4)2
442	40.0 - 100.0% of mass 198	43.2
443	17.0 - 23.0% of mass 442	7.8 (18.0)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050X0309	X4691	03/09/04	1416
02		SSTD010X0309	X4692	03/09/04	1502
03		SSTD020X0309	X4693	03/09/04	1548
04		SSTD120X0309	X4694	03/09/04	1634
05		SSTD160X0309	X4695	03/09/04	1720
06		SSTD200X0309	X4696	03/09/04	1805
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FORM V SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-X Calibration Date(s): 03/09/04 03/09/04

Column: DB5-MS ID: 0.25 (mm) Calibration Time(s): 1111 1805

LAB FILE ID: RF10: X4692 RF20: X4693 RF50: X4691
RF120: X4694 RF160: X4695 RF200: X4696

COMPOUND	RF10	RF20	RF50	RF120	RF160	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	COEFFICENTS A2	%RSD OR R^2	MAX %RSD OR R^2	
Phenol	1.575	1.747	1.545	1.415	1.288	1.161	AVRG		1.45516964		14.545	15.000	
Bis(2-Chloroethyl)ether	1.469	1.509	1.303	1.014	0.906	0.726	AVRG		1.15433478		27.709	15.000	<
2-Chlorophenol	164840	366300	902040	1696200	2538000	2685900	2ORDR	3.83e-002	0.55891193	0.11738569	0.99778	0.99000	
1,3-Dichlorobenzene	185720	403000	1017600	1902100	2956500	3109200	2ORDR	2.027e-002	0.56070230	7.243e-002	0.99667	0.99000	
1,4-Dichlorobenzene	178140	393370	962830	1847600	2687300	2860100	2ORDR	5.359e-002	0.47733641	0.11323994	0.99801	0.99000	
1,2-Dichlorobenzene	173170	376720	855870	1631300	2401700	2502300	2ORDR	4.25e-002	0.52270847	0.15073280	0.99622	0.99000	
2-Methylphenol	1.144	1.171	1.072	0.933	0.931	0.865	AVRG		1.01922174		12.443	15.000	
2,2'-Oxybis(1-Chloropropa	2.264	2.425	2.019	1.988	2.019	1.794	AVRG		2.08475549		10.738	15.000	
4-Methylphenol	138120	315870	772380	1453600	2161600	2342700	2ORDR	2.698e-002	0.69499364	0.14519352	0.99926	0.99000	
N-Nitroso-di-n-propylamin	121270	276300	683740	1323000	1911400	2122500	LINR	-0.1843197	1.39191459		0.99018	0.99000	
Hexachloroethane	0.573	0.636	0.580	0.502	0.464	0.425	AVRG		0.53018270		15.013	15.000	<
Nitrobenzene	0.377	0.407	0.377	0.364	0.361	0.345	AVRG		0.37194610		5.604	15.000	
Isophorone	0.721	0.764	0.730	0.689	0.773	0.717	AVRG		0.73248398		4.268	15.000	
2-Nitrophenol	0.170	0.221	0.224	0.203	0.212	0.195	AVRG		0.20398028		9.814	15.000	
2,4-Dimethylphenol	0.337	0.364	0.354	0.327	0.333	0.312	AVRG		0.33779424		5.540	15.000	
Bis(2-Chloroethoxy)methan	0.490	0.520	0.476	0.443	0.444	0.416	AVRG		0.46494856		8.093	15.000	
2,4-Dichlorophenol	0.298	0.314	0.290	0.267	0.268	0.252	AVRG		0.28168598		8.235	15.000	
1,2,4-Trichlorobenzene	0.326	0.339	0.313	0.270	0.274	0.255	AVRG		0.29620240		11.578	15.000	
Naphthalene	419560	895700	2158200	3970800	5776900	5972900	LINR	-0.1761611	1.47001832		0.99188	0.99000	
4-Chloroaniline	0.410	0.435	0.400	0.386	0.393	0.341	AVRG		0.39415113		7.879	15.000	
Hexachlorobutadiene	0.154	0.171	0.148	0.142	0.137	0.131	AVRG		0.14706416		9.653	15.000	
4-Chloro-3-Methylphenol	0.278	0.298	0.299	0.275	0.277	0.226	AVRG		0.27535631		9.620	15.000	
2-Methylnaphthalene	0.597	0.658	0.604	0.521	0.499	0.514	AVRG		0.56560700		11.212	15.000	
Hexachlorocyclopentadiene	0.238	0.278	0.332	0.319	0.314	0.302	AVRG		0.29732187		11.528	15.000	
2,4,6-Trichlorophenol	0.358	0.392	0.374	0.350	0.348	0.311	AVRG		0.35547469		7.614	15.000	
2,4,5-Trichlorophenol	0.378	0.423	0.419	0.403	0.398	0.390	AVRG		0.40171926		4.279	15.000	
2-Chloronaphthalene	258470	568560	1402500	2432400	3540700	3662700	2ORDR	2.537e-002	0.63612165	0.15328623	0.99975	0.99000	
2-Nitroaniline	0.352	0.410	0.425	0.414	0.423	0.402	AVRG		0.40416350		6.672	15.000	
Dimethyl Phthalate	1.365	1.333	1.248	1.058	1.037	0.954	AVRG		1.16589397		14.722	15.000	
Acenaphthylene	372840	807620	2112000	3623100	5532800	5703200	LINR	-0.1835599	0.79554259		0.99177	0.99000	
2,6-Dinitrotoluene	0.249	0.291	0.318	0.297	0.313	0.282	AVRG		0.29178227		8.450	15.000	
3-Nitroaniline	0.303	0.332	0.355	0.314	0.286	0.262	AVRG		0.30887889		10.712	15.000	
Acenaphthene	234560	506550	1274800	2215500	3362400	3374800	2ORDR	2.883e-002	0.71507620	0.16833455	0.99907	0.99000	
2,4-Dinitrophenol	16310	58686	265080	524230	968670	952620	LINR	0.11346474	4.50750795		0.99183	0.99000	
4-Nitrophenol	0.110	0.122	0.154	0.146	0.161	0.136	AVRG		0.13831396		13.998	15.000	
Dibenzofuran	1.591	1.592	1.490	1.309	1.277	1.167	AVRG		1.40435721		12.694	15.000	
2,4-Dinitrotoluene	0.368	0.408	0.461	0.406	0.424	0.372	AVRG		0.40632788		8.495	15.000	
Diethylphthalate	283300	604600	1617200	2676500	3821500	3790600	2ORDR	8.501e-002	0.36818007	0.19368502	0.99801	0.99000	
4-Chlorophenyl-phenylethe	120900	249760	641780	1076900	1587200	1597200	2ORDR	4.191e-002	1.25479693	0.90035542	0.99940	0.99000	
Fluorene	1.150	1.188	1.153	0.992	0.970	0.876	AVRG		1.05480084		11.981	15.000	
4-Nitroaniline	0.285	0.306	0.362	0.332	0.362	0.325	AVRG		0.32880249		9.350	15.000	
4,6-Dinitro-2-Methylpheno	27908	80062	309500	606180	1055400	1055800	LINR	6.744e-002	6.47515671		0.99932	0.99000	
N-Nitrosodiphenylamine	176950	355010	985220	1756000	2616600	2563500	2ORDR	2.963e-002	1.58030377	0.61863544	0.99844	0.99000	
4-Bromophenyl-phenylether	0.176	0.182	0.169	0.160	0.159	0.153	AVRG		0.16652697		6.622	15.000	

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-X Calibration Date(s): 03/09/04 03/09/04

Column: DB5-MS ID: 0.25 (mm) Calibration Time(s): 1111 1805

LAB FILE ID: RF10: X4692 RF20: X4693 RF50: X4691
RF120: X4694 RF160: X4695 RF200: X4696

COMPOUND	RF10	RF20	RF50	RF120	RF160	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	COEFFICENTS A2	%RSD OR R^2	MAX %RSD OR R^2
Hexachlorobenzene	0.184	0.198	0.184	0.174	0.169	0.168	AVRG		0.17942605		6.361	15.000
Pentachlorophenol	0.089	0.101	0.120	0.122	0.127	0.117	AVRG		0.11281689		12.812	15.000
Phenanthrene	0.974	0.989	0.898	0.834	0.772	0.764	AVRG		0.87172876		11.237	15.000
Anthracene	0.966	0.949	0.886	0.811	0.754	0.750	AVRG		0.85273032		11.166	15.000
Carbazole	0.902	0.905	0.900	0.834	0.774	0.781	AVRG		0.84915729		7.239	15.000
Di-n-butylphthalate	1.332	1.385	1.403	1.276	1.191	1.162	AVRG		1.29152425		7.745	15.000
Fluoranthene	0.912	0.914	0.930	0.844	0.765	0.764	AVRG		0.85481729		8.896	15.000
Pyrene	1.636	1.712	1.676	1.794	2.248	1.836	AVRG		1.81680164		12.306	15.000
Butylbenzylphthalate	0.836	0.961	1.057	1.097	1.197	1.076	AVRG		1.03715412		12.005	15.000
3,3'-Dichlorobenzidine	59383	111860	306400	428030	436790	503180	2ORDR	7.216e-002	1.82381337	4.40527994	0.99465	0.99000
Benzo(a)anthracene	1.182	1.266	1.203	1.180	1.210	1.151	AVRG		1.19870420		3.248	15.000
Chrysene	1.101	1.139	1.046	0.980	0.979	0.936	AVRG		1.03009208		7.644	15.000
bis(2-Ethylhexyl)phthalat	1.215	1.342	1.461	1.483	1.522	1.423	AVRG		1.40777190		8.002	15.000
Di-n-octylphthalate	332130	698690	2393700	3741000	4505600	5381200	LINR	9.709e-003	0.26247337		0.99382	0.99000
Benzo(b)fluoranthene	1.268	1.458	1.583	1.437	1.411	1.390	AVRG		1.42448021		7.169	15.000
Benzo(k)fluoranthene	1.472	1.439	1.531	1.412	1.485	1.396	AVRG		1.45593978		3.445	15.000
Benzo(a)pyrene	1.102	1.185	1.192	1.172	1.186	1.159	AVRG		1.16602836		2.892	15.000
Indeno(1,2,3-cd)pyrene	0.682	0.750	0.698	0.772	0.870	0.813	AVRG		0.76427318		9.232	15.000
Dibenzo(a,h)anthracene	0.724	0.743	0.709	0.751	0.819	0.782	AVRG		0.75470736		5.297	15.000
Benzo(g,h,i)perylene	0.773	0.732	0.745	0.789	0.860	0.798	AVRG		0.78293246		5.832	15.000
2-Fluorophenol	1.211	1.375	1.317	1.190	1.172	1.077	AVRG		1.22375959		8.736	15.000
Phenol-D6	1.501	1.665	1.496	1.298	1.234	1.078	AVRG		1.37865330		15.496	15.000 <
Nitrobenzene-D5	0.369	0.408	0.398	0.375	0.390	0.376	AVRG		0.38596830		3.931	15.000
2-Fluorobiphenyl	287270	598690	1494300	2699000	4103500	4213400	LINR	-0.1763477	1.07387735		0.99255	0.99000
2,4,6-Tribromophenol	0.111	0.116	0.109	0.108	0.121	0.094	AVRG		0.10977576		8.301	15.000
Terphenyl-D14	0.859	0.978	0.988	1.079	1.295	1.091	AVRG		1.04839109		14.018	15.000

Average %RSD test result.

Calculate Average %RSD: 10.85221195
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM VI SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: XD212 DFTPP Injection Date: 03/11/04

Instrument ID: GCMS-X DFTPP Injection Time: 1010

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.6
68	Less than 2.0% of mass 69	1.1 (1.5)1
69	Less than 100.0% of mass 198	71.5
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	40.0 - 60.0% of mass 198	50.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.2
275	10.0 - 30.0% of mass 198	17.8
365	1.0 - 100.0% of mass 198	1.9
441	0.0 - 100.0% of mass 443	6.1 (79.4)2
442	40.0 - 100.0% of mass 198	40.2
443	17.0 - 23.0% of mass 442	7.7 (19.2)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050X0311	X4718	03/11/04	1031
02	WG5942-BLANK	WG5942-1	X4719	03/11/04	1117
03	WG5942-LCS	WG5942-2	X4720	03/11/04	1202
04	WG5942-LCSD	WG5942-3	X4721	03/11/04	1247
05	WG6031-BLANK	WG6031-1	X4722	03/11/04	1333
06	WG6031-LCS	WG6031-2	X4723	03/11/04	1418
07	WG6031-LCSD	WG6031-3	X4724	03/11/04	1503
08	G01-MW-11-0204	WU0346-2	X4726	03/11/04	1635
09	KW-DUP-02-0204	WU0346-4	X4727	03/11/04	1721
10	G01-MW-07-0204	WU0346-6	X4728	03/11/04	1806
11	G01-MW-06-0204	WU0334-6RA	X4729	03/11/04	1852
12	G01-MW-11-0204	WU0346-2RA	X4730	03/11/04	1937
13	KW-DUP-02-0204	WU0346-4RA	X4731	03/11/04	2022
14	G01-MW-07-0204	WU0346-6RA	X4732	03/11/04	2108
15					
16					
17					
18					
19					
20					

FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-X Calibration Date: 03/11/04 Time: 1031

Lab File ID: X4718 Init. Calib. Date(s): 03/09/04 03/09/04

Init. Calib. Times: 1111 1805

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Phenol	1.4550000	1.8016000	1.8016000	0.01	23.82	20.00	AVRG	<-
Bis(2-Chloroethyl)ether	1.1540000	1.4099000	1.4099000	0.01	22.18	100.00	AVRG	
2-Chlorophenol	51.685000	50.000000	1.3302000	0.01	3.37	100.00	2RDR	
1,3-Dichlorobenzene	51.368000	50.000000	1.4594000	0.01	2.74	100.00	2RDR	
1,4-Dichlorobenzene	49.177000	50.000000	1.3942000	0.01	-1.65	20.00	2RDR	
1,2-Dichlorobenzene	49.147000	50.000000	1.2512000	0.01	-1.71	100.00	2RDR	
2-Methylphenol	1.0190000	1.1008000	1.1008000	0.01	8.03	100.00	AVRG	
2,2'-Oxybis(1-Chloropropane)	2.0850000	2.1459000	2.1459000	0.01	2.92	100.00	AVRG	
4-Methylphenol	54.398000	50.000000	1.1743000	0.01	8.80	100.00	2RDR	
N-Nitroso-di-n-propylamine	60.938000	50.000000	0.9815400	0.05	21.88	100.00	LINR	
Hexachloroethane	0.5300000	0.6137900	0.6137900	0.01	15.81	100.00	AVRG	
Nitrobenzene	0.3720000	0.4354100	0.4354100	0.01	17.05	100.00	AVRG	
Isophorone	0.7320000	0.8007900	0.8007900	0.01	9.40	100.00	AVRG	
2-Nitrophenol	0.2040000	0.2306500	0.2306500	0.01	13.06	20.00	AVRG	
2,4-Dimethylphenol	0.3380000	0.3878500	0.3878500	0.01	14.75	100.00	AVRG	
Bis(2-Chloroethoxy)methane	0.4650000	0.5354400	0.5354400	0.01	15.15	100.00	AVRG	
2,4-Dichlorophenol	0.2820000	0.3015400	0.3015400	0.01	6.93	20.00	AVRG	
1,2,4-Trichlorobenzene	0.2960000	0.3096300	0.3096300	0.01	4.60	100.00	AVRG	
Naphthalene	62.473000	50.000000	0.9458400	0.01	24.95	100.00	LINR	
4-Chloroaniline	0.3940000	0.4344600	0.4344600	0.01	10.27	100.00	AVRG	
Hexachlorobutadiene	0.1470000	0.1525100	0.1525100	0.01	3.75	20.00	AVRG	
4-Chloro-3-Methylphenol	0.2760000	0.3021100	0.3021100	0.01	9.46	20.00	AVRG	
2-Methylnaphthalene	0.5660000	0.6073600	0.6073600	0.01	7.31	100.00	AVRG	
Hexachlorocyclopentadiene	0.2970000	0.3191200	0.3191200	0.05	7.45	100.00	AVRG	
2,4,6-Trichlorophenol	0.3560000	0.3656000	0.3656000	0.01	2.70	20.00	AVRG	
2,4,5-Trichlorophenol	0.4020000	0.4055700	0.4055700	0.01	0.89	100.00	AVRG	
2-Chloronaphthalene	49.360000	50.000000	1.1332000	0.01	-1.28	100.00	2RDR	
2-Nitroaniline	0.4040000	0.4336900	0.4336900	0.01	7.35	100.00	AVRG	
Dimethyl Phthalate	1.1660000	1.2401000	1.2401000	0.01	6.36	100.00	AVRG	

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-X Calibration Date: 03/11/04 Time: 1031

Lab File ID: X4718 Init. Calib. Date(s): 03/09/04 03/09/04

Init. Calib. Times: 1111 1805

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Acenaphthylene	58.984000	50.000000	1.6674000	0.01	17.97	100.00	LINR
2,6-Dinitrotoluene	0.2920000	0.3134300	0.3134300	0.01	7.34	100.00	AVRG
3-Nitroaniline	0.3090000	0.3432200	0.3432200	0.01	11.07	100.00	AVRG
Acenaphthene	46.706000	50.000000	0.9872600	0.01	-6.59	20.00	2RDR
2,4-Dinitrophenol	41.626000	50.000000	0.1645600	0.05	-16.75	100.00	LINR
4-Nitrophenol	0.1380000	0.1480100	0.1480100	0.05	7.25	100.00	AVRG
Dibenzofuran	1.4040000	1.4341000	1.4341000	0.01	2.14	100.00	AVRG
2,4-Dinitrotoluene	0.4060000	0.4323200	0.4323200	0.01	6.48	100.00	AVRG
Diethylphthalate	47.123000	50.000000	1.2866000	0.01	-5.75	100.00	2RDR
4-Chlorophenyl-phenylether	46.294000	50.000000	0.4930800	0.01	-7.41	100.00	2RDR
Fluorene	1.0550000	1.0886000	1.0886000	0.01	3.18	100.00	AVRG
4-Nitroaniline	0.3290000	0.3172600	0.3172600	0.01	-3.57	100.00	AVRG
4,6-Dinitro-2-Methylphenol	47.206000	50.000000	0.1374700	0.01	-5.59	100.00	LINR
N-Nitrosodiphenylamine	49.338000	50.000000	0.4913000	0.01	-1.32	20.00	2RDR
4-Bromophenyl-phenylether	0.1660000	0.1685700	0.1685700	0.01	1.55	100.00	AVRG
Hexachlorobenzene	0.1800000	0.1911000	0.1911000	0.01	6.17	100.00	AVRG
Pentachlorophenol	0.1130000	0.1178500	0.1178500	0.01	4.29	20.00	AVRG
Phenanthrene	0.8720000	0.8969300	0.8969300	0.01	2.86	100.00	AVRG
Anthracene	0.8530000	0.9061000	0.9061000	0.01	6.22	100.00	AVRG
Carbazole	0.8490000	0.8921000	0.8921000	0.01	5.08	100.00	AVRG
Di-n-butylphthalate	1.2920000	1.4973000	1.4973000	0.01	15.89	100.00	AVRG
Fluoranthene	0.8550000	0.9288100	0.9288100	0.01	8.63	20.00	AVRG
Pyrene	1.8170000	1.6410000	1.6410000	0.01	-9.69	100.00	AVRG
Butylbenzylphthalate	1.0370000	1.0737000	1.0737000	0.01	3.54	100.00	AVRG
3,3'-Dichlorobenzidine	58.818000	50.000000	0.3145700	0.01	17.64	100.00	2RDR
Benzo(a)anthracene	1.1990000	1.2386000	1.2386000	0.01	3.30	100.00	AVRG
Chrysene	1.0300000	1.0849000	1.0849000	0.01	5.33	100.00	AVRG
bis(2-Ethylhexyl)phthalate	1.4080000	1.4588000	1.4588000	0.01	3.61	100.00	AVRG
Di-n-octylphthalate	54.982000	50.000000	4.1599000	0.01	9.96	20.00	LINR

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GCMS-X Calibration Date: 03/11/04 Time: 1031

Lab File ID: X4718 Init. Calib. Date(s): 03/09/04 03/09/04

Init. Calib. Times: 1111 1805

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Benzo(b)fluoranthene	1.4240000	1.4947000	1.4947000	0.01	4.96	100.00	AVRG
Benzo(k)fluoranthene	1.4560000	1.5964000	1.5964000	0.01	9.64	100.00	AVRG
Benzo(a)pyrene	1.1660000	1.1513000	1.1513000	0.01	-1.26	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.7640000	0.5026200	0.5026200	0.01	-34.21	100.00	AVRG
Dibenzo(a,h)anthracene	0.7550000	0.5358800	0.5358800	0.01	-29.02	100.00	AVRG
Benzo(g,h,i)perylene	0.7830000	0.4663100	0.4663100	0.01	-40.45	100.00	AVRG
2-Fluorophenol	1.2240000	1.3817000	1.3817000	0.01	12.88	100.00	AVRG
Phenol-D6	1.3790000	1.5749000	1.5749000	0.01	14.21	100.00	AVRG
Nitrobenzene-D5	0.3860000	0.4163800	0.4163800	0.01	7.87	100.00	AVRG
2-Fluorobiphenyl	59.779000	50.000000	1.2447000	0.01	19.56	100.00	LINR
2,4,6-Tribromophenol	0.1100000	0.1137500	0.1137500	0.01	3.41	100.00	AVRG
Terphenyl-D14	1.0480000	0.9640600	0.9640600	0.01	-8.01	100.00	AVRG

FORM 2
WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 297 NAS KEY WEST SDG No.: CTO297-4

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 2FP#	S2 PHL#	S3 NBZ#	S4 FBP#	S5 TBP#	S6 TPH#	S7 #	S8 #	TOT OUT
01	WG5942-BLANK	WG5942-1	57	39	80	92*	113*	99			2
02	WG5942-LCS	WG5942-2	53	37	73	82	109*	84			1
03	WG5942-LCSD	WG5942-3	61	43	80	89*	122*	99			2
04	WG6031-BLANK	WG6031-1	53	38	73	92*	102	93			1
05	WG6031-LCS	WG6031-2	59	42	84	98*	116*	87			2
06	WG6031-LCSD	WG6031-3	62	45	87	96*	112*	89			2
07	G01-MW-11-0204	WU0346-2	33*	25	45	57	96	101			1
08	KW-DUP-02-0204	WU0346-4	46	39	72	93*	101	102			1
09	G01-MW-07-0204	WU0346-6	51	41	70	89*	93	107			1
10	G01-MW-06-0204	WU0334-6RA	44	39	71	87	100	113			0
11	G01-MW-11-0204	WU0346-2RA	33*	23	43	58	84	88			1
12	KW-DUP-02-0204	WU0346-4RA	51	40	75	92*	103	101			1
13	G01-MW-07-0204	WU0346-6RA	53	44	67	89*	98	95			1
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

	QC LIMITS
S1 (2FP) = 2-Fluorophenol	(35- 74)
S2 (PHL) = Phenol-D6	(22- 98)
S3 (NBZ) = Nitrobenzene-D5	(17-102)
S4 (FBP) = 2-Fluorobiphenyl	(28- 87)
S5 (TBP) = 2,4,6-Tribromophenol	(41-106)
S6 (TPH) = Terphenyl-D14	(35-126)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 02/09/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER

Lab ID: WG5942-2 & WG5942-3
Client ID: WG5942-LCS & WG5942-LCSD
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG5942
Units: ug/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Phenol	100	100	NA	37	42	37	42	13	30	0-126
Bis(2-Chloroethyl)ether	50	50	NA	46	49	92	99	7	30	56-108
2-Chlorophenol	100	100	NA	73	86	73	86	16	30	42-100
1,3-Dichlorobenzene	50	50	NA	25	26	50	52	3	30	30- 94
1,4-Dichlorobenzene	50	50	NA	24	26	48	52	6	30	33- 94
1,2-Dichlorobenzene	50	50	NA	25	26	50	53	6	30	35- 95
2-Methylphenol	100	100	NA	68	75	68	75	10	30	51- 99
2,2'-Oxybis(1-Chloropropane)	50	50	NA	37	42	75	84	11	30	20-126
4-Methylphenol	100	100	NA	69	77	69	77	11	30	38-108
N-Nitroso-di-n-propylamine	50	50	NA	34	39	69	77	12	30	48-108
Hexachloroethane	50	50	NA	25	25	50	49	0.8	30	21- 92
Nitrobenzene	50	50	NA	39	43	78	86	9	30	50-102
Isophorone	50	50	NA	35	37	70	74	6	30	21-118
2-Nitrophenol	100	100	NA	74	82	74	82	11	30	5-129
2,4-Dimethylphenol	100	100	NA	73	81	73	81	10	30	50- 98
Bis(2-Chloroethoxy)methane	50	50	NA	38	40	77	81	5	30	51-102
2,4-Dichlorophenol	100	100	NA	69	78	69	78	12	30	37-103
1,2,4-Trichlorobenzene	50	50	NA	28	28	57	55	2	30	30- 98
Naphthalene	50	50	NA	34	38	68	75	9	30	43- 90
4-Chloroaniline	50	50	NA	24	26	* 48	52	7	30	49-107
Hexachlorobutadiene	50	50	NA	27	24	53	49	8	30	19- 96
4-Chloro-3-Methylphenol	100	100	NA	78	89	78	89	13	30	52-117
2-Methylnaphthalene	50	50	NA	32	33	63	67	5	30	46-101
Hexachlorocyclopentadiene	50	50	NA	20	20	40	41	2	30	0- 94
2,4,6-Trichlorophenol	100	100	NA	80	90	80	90	11	30	22-124
2,4,5-Trichlorophenol	100	100	NA	81	82	81	82	2	30	32-114
2-Chloronaphthalene	50	50	NA	31	35	62	70	13	30	45-139
2-Nitroaniline	50	50	NA	42	46	84	93	10	30	56-119
Dimethyl Phthalate	50	50	NA	30	31	60	62	3	30	0-139
Acenaphthylene	50	50	NA	40	44	79	87	9	30	51- 96
2,6-Dinitrotoluene	50	50	NA	43	49	85	97	13	30	60-113
3-Nitroaniline	50	50	NA	43	46	86	92	6	30	44-151
Acenaphthene	50	50	NA	32	36	65	72	10	30	53- 97
2,4-Dinitrophenol	100	100	NA	62	77	62	77	21	30	34- 98
4-Nitrophenol	100	100	NA	40	46	40	46	14	30	0-107
Dibenzofuran	50	50	NA	39	42	78	84	8	30	58-103
2,4-Dinitrotoluene	50	50	NA	40	44	80	88	10	30	50-114
Diethylphthalate	50	50	NA	30	34	60	67	10	30	39-1110
4-Chlorophenyl-phenylether	50	50	NA	34	37	67	73	9	30	56-108
Fluorene	50	50	NA	41	44	82	88	8	30	56-102
4-Nitroaniline	50	50	NA	37	41	74	81	9	30	52-161
4,6-Dinitro-2-Methylphenol	100	100	NA	95	101	95	101	6	30	23-141
N-Nitrosodiphenylamine	100	100	NA	102	105	102	105	3	30	64-123
4-Bromophenyl-phenylether	50	50	NA	51	53	101	105	4	30	55-125
Hexachlorobenzene	50	50	NA	50	56	101	113	11	30	51-117

FORM III SV-1

X4720.D & X4721.D

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 02/09/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER

Lab ID: WG5942-2 & WG5942-3
Client ID: WG5942-LCS & WG5942-LCSD
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG5942
Units: ug/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Pentachlorophenol	100	100	NA	98	104	98	104	6	30	0-155
Phenanthrene	50	50	NA	46	48	93	96	3	30	55-112
Anthracene	50	50	NA	50	51	100	101	2	30	57-117
Carbazole	50	50	NA	49	51	98	101	3	30	41-177
Di-n-butylphthalate	50	50	NA	49	50	98	100	1	30	61-121
Fluoranthene	50	50	NA	51	52	103	103	0.8	30	52-121
Pyrene	50	50	NA	40	46	80	91	14	30	47-119
Butylbenzylphthalate	50	50	NA	38	42	75	84	11	30	49-125
3,3'-Dichlorobenzidine	50	50	NA	39	43	78	86	9	30	3-222
Benzo(a)anthracene	50	50	NA	43	47	85	93	9	30	52-107
Chrysene	50	50	NA	46	49	93	98	5	30	53-110
bis(2-Ethylhexyl)phthalate	50	50	NA	42	47	84	93	10	30	49-148
Di-n-octylphthalate	50	50	NA	51	55	101	111	9	30	28-189
Benzo(b)fluoranthene	50	50	NA	47	51	94	103	9	30	39-146
Benzo(k)fluoranthene	50	50	NA	49	54	98	107	9	30	43-120
Benzo(a)pyrene	50	50	NA	46	50	91	99	8	30	45-129
Indeno(1,2,3-cd)pyrene	50	50	NA	30	35	59	70	17	30	50-112
Dibenzo(a,h)anthracene	50	50	NA	30	34	60	68	13	30	50-113
Benzo(g,h,i)perylene	50	50	NA	26	33	52	65	23	30	46-111

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 02/13/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER

Lab ID: WG6031-2 & WG6031-3
Client ID: WG6031-LCS & WG6031-LCSD
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG6031
Units: ug/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Phenol	100	100	NA	44	45	44	45	3	30	0-126
Bis(2-Chloroethyl)ether	50	50	NA	49	52	99	104	6	30	56-108
2-Chlorophenol	100	100	NA	91	88	91	88	3	30	42-100
1,3-Dichlorobenzene	50	50	NA	32	36	64	71	10	30	30- 94
1,4-Dichlorobenzene	50	50	NA	33	35	65	71	8	30	33- 94
1,2-Dichlorobenzene	50	50	NA	34	37	67	74	9	30	35- 95
2-Methylphenol	100	100	NA	77	79	77	79	2	30	51- 99
2,2'-Oxybis(1-Chloropropane)	50	50	NA	43	46	86	92	6	30	20-126
4-Methylphenol	100	100	NA	76	79	76	79	4	30	38-108
N-Nitroso-di-n-propylamine	50	50	NA	37	41	75	82	10	30	48-108
Hexachloroethane	50	50	NA	35	36	70	72	3	30	21- 92
Nitrobenzene	50	50	NA	44	47	88	94	6	30	50-102
Isophorone	50	50	NA	37	40	74	79	6	30	21-118
2-Nitrophenol	100	100	NA	83	89	83	89	6	30	5-129
2,4-Dimethylphenol	100	100	NA	80	86	80	86	7	30	50- 98
Bis(2-Chloroethoxy)methane	50	50	NA	42	45	84	89	6	30	51-102
2,4-Dichlorophenol	100	100	NA	76	85	76	85	10	30	37-103
1,2,4-Trichlorobenzene	50	50	NA	36	40	72	80	10	30	30- 98
Naphthalene	50	50	NA	43	47	86	* 94	9	30	43- 90
4-Chloroaniline	50	50	NA	26	31	51	61	18	30	49-107
Hexachlorobutadiene	50	50	NA	37	41	74	81	9	30	19- 96
4-Chloro-3-Methylphenol	100	100	NA	81	89	81	89	9	30	52-117
2-Methylnaphthalene	50	50	NA	39	42	79	84	7	30	46-101
Hexachlorocyclopentadiene	50	50	NA	30	32	59	63	6	30	0- 94
2,4,6-Trichlorophenol	100	100	NA	88	88	88	88	0.3	30	22-124
2,4,5-Trichlorophenol	100	100	NA	88	90	88	90	1	30	32-114
2-Chloronaphthalene	50	50	NA	41	43	82	86	4	30	45-139
2-Nitroaniline	50	50	NA	46	46	91	92	1	30	56-119
Dimethyl Phthalate	50	50	NA	21	21	42	42	0.5	30	0-139
Acenaphthylene	50	50	NA	48	47	96	94	1	30	51- 96
2,6-Dinitrotoluene	50	50	NA	45	46	90	93	3	30	60-113
3-Nitroaniline	50	50	NA	43	44	86	88	1	30	44-151
Acenaphthene	50	50	NA	39	38	77	77	1	30	53- 97
2,4-Dinitrophenol	100	100	NA	66	70	66	70	5	30	34- 98
4-Nitrophenol	100	100	NA	41	42	41	42	2	30	0-107
Dibenzofuran	50	50	NA	43	44	87	87	0.7	30	58-103
2,4-Dinitrotoluene	50	50	NA	42	42	83	83	0.2	30	50-114
Diethylphthalate	50	50	NA	27	28	55	55	1	30	39-1110
4-Chlorophenyl-phenylether	50	50	NA	39	37	78	75	5	30	56-108
Fluorene	50	50	NA	44	44	87	88	0.2	30	56-102
4-Nitroaniline	50	50	NA	37	37	73	74	0.5	30	52-161
4,6-Dinitro-2-Methylphenol	100	100	NA	90	92	90	92	2	30	23-141
N-Nitrosodiphenylamine	100	100	NA	103	99	103	99	4	30	64-123
4-Bromophenyl-phenylether	50	50	NA	50	52	101	103	2	30	55-125
Hexachlorobenzene	50	50	NA	53	54	107	108	1	30	51-117

FORM III SV-1

X4723.D & X4724.D

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO 297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 02/13/04
Analysis Date: 03/11/04
Report Date: 03/12/2004
Matrix: WATER

Lab ID: WG6031-2 & WG6031-3
Client ID: WG6031-LCS & WG6031-LCSD
SDG: CTO297-4
Extracted by: AB
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8270C
Lab Prep Batch: WG6031
Units: ug/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Pentachlorophenol	100	100	NA	97	99	97	99	2	30	0-155
Phenanthrene	50	50	NA	46	46	92	92	0.4	30	55-112
Anthracene	50	50	NA	48	49	96	98	3	30	57-117
Carbazole	50	50	NA	46	47	92	94	2	30	41-177
Di-n-butylphthalate	50	50	NA	46	46	91	93	2	30	61-121
Fluoranthene	50	50	NA	47	49	95	98	4	30	52-121
Pyrene	50	50	NA	39	41	78	81	4	30	47-119
Butylbenzylphthalate	50	50	NA	34	37	69	74	7	30	49-125
3,3'-Dichlorobenzidine	50	50	NA	42	38	83	77	8	30	3-222
Benzo(a)anthracene	50	50	NA	44	45	87	90	3	30	52-107
Chrysene	50	50	NA	46	46	91	92	0.9	30	53-110
bis(2-Ethylhexyl)phthalate	50	50	NA	41	44	83	89	7	30	49-148
Di-n-octylphthalate	50	50	NA	42	52	85	104	20	30	28-189
Benzo(b)fluoranthene	50	50	NA	46	47	91	93	2	30	39-146
Benzo(k)fluoranthene	50	50	NA	50	52	99	103	4	30	43-120
Benzo(a)pyrene	50	50	NA	44	46	87	91	4	30	45-129
Indeno(1,2,3-cd)pyrene	50	50	NA	33	30	66	61	9	30	50-112
Dibenzo(a,h)anthracene	50	50	NA	33	33	66	65	0.9	30	50-113
Benzo(g,h,i)perylene	50	50	NA	32	28	63	56	12	30	46-111

FORM 8
FL-PRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

GC Column: ZB-1 ID: 0.53 (mm) Init. Calib. Date(s): 01/15/04 01/15/04

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.20 S2 : 24.42

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ICAL	FLPRO 5 UG/M	01/15/04	0329	18.20	24.42
02	ICAL	FLPRO 20 UG/	01/15/04	0438	18.20	24.42
03	ICAL	FLPRO 50 UG/	01/15/04	0548	18.20	24.42
04	ICAL	FLPRO 100UG/	01/15/04	0658	18.20	24.42
05	ICAL	FLPRO 200UG/	01/15/04	0809	18.20	24.42
06	INDSOURCE	FLPRO IND	01/15/04	0919	18.20	24.42
07	CV	FLPRO 50 UG/	02/26/04	0413	18.20	24.41
08	WG5894-BLANK	WG5894-1	02/26/04	0522	18.20	24.40
09	WG5894-LCS	WG5894-2	02/26/04	0632	18.20	24.40
10	WG5894-LCSD	WG5894-3	02/26/04	0743	18.20	24.41
11	G01-MW-01A-0	WU0318-2	02/26/04	0853	18.20	24.41
12	G01-MW-01-02	WU0318-3	02/26/04	1003	18.20	24.41
13	G01-MW-03-02	WU0318-4	02/26/04	1112	18.20	24.40
14	G01-MW-02-02	WU0318-5	02/26/04	1222	18.20	24.40
15	G01-MW-05-02	WU0334-2	02/26/04	1332	18.19	24.40
16	G01-MW-06-02	WU0334-1	02/26/04	1443	18.20	24.40
17	G01-MW-04-02	WU0318-6	02/26/04	1553	18.19	24.40
18	CV	FLPRO 50 UG/	02/26/04	1924	18.19	24.40
19	WG5979-BLANK	WG5979-1	02/26/04	2034	18.19	24.41
20	WG5979-LCS	WG5979-2	02/26/04	2144	18.20	24.40

QC LIMITS

S1 = O-Terphenyl (+/- 0.36 MINUTES)
S2 = n-Triacontane-D62 (+/- 0.49 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
FL-PRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

GC Column: ZB-1 ID: 0.53 (mm) Init. Calib. Date(s): 01/15/04 01/15/04

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.20 S2 : 24.42

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	G01-MW-11-02	WU0346-1	02/26/04	2253	18.19	24.40
02	KW-DUP-02-02	WU0346-3	02/27/04	0004	18.20	24.41
03	G01-MW-07-02	WU0346-5	02/27/04	0114	18.20	24.41
04	G01-MW-10-02	WU0346-7	02/27/04	0224	18.19	24.40
05	G01-MW-09-02	WU0346-8	02/27/04	0333	18.20	24.41
06	G01-MW-12-02	WU0346-9	02/27/04	0443	18.20	24.41
07	G01-MW-08-02	WU0346-10	02/27/04	0552	18.19	24.41
08	CV	FLPRO 50 UG/	02/27/04	0922	18.19	24.40
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS

S1 = O-Terphenyl (+/- 0.36 MINUTES)
S2 = n-Triacontane-D62 (+/- 0.49 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 4

SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG5894-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: CUB2038 Lab Sample ID: WG5894-1

Instrument ID: GC12 Date Extracted: 02/06/04

Matrix: (soil/water) WATER Date Analyzed: 02/26/04

Level: (low/med) LOW Time Analyzed: 0522

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG5894-LCS	WG5894-2	CUB2039	02/26/04	0632
02	WG5894-LCSD	WG5894-3	CUB2040	02/26/04	0743
03	G01-MW-01A-0204	WU0318-2	CUB2041	02/26/04	0853
04	G01-MW-01-0204	WU0318-3	CUB2042	02/26/04	1003
05	G01-MW-03-0204	WU0318-4	CUB2043	02/26/04	1112
06	G01-MW-02-0204	WU0318-5	CUB2044	02/26/04	1222
07	G01-MW-05-0204	WU0334-2	CUB2045	02/26/04	1332
08	G01-MW-06-0204	WU0334-1	CUB2046	02/26/04	1443
09	G01-MW-04-0204	WU0318-6	CUB2047	02/26/04	1553
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 02/06/04
Analysis Date: 02/26/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WG5894-1
Client ID: WG5894-Blank
SDG: CTO297-4
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5894
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	280
	n-Triacontane-D62		73%				
	O-Terphenyl		86%				

FORM 4

SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG5979-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Lab File ID: CUB2051 Lab Sample ID: WG5979-1

Instrument ID: GC12 Date Extracted: 02/11/04

Matrix: (soil/water) WATER Date Analyzed: 02/26/04

Level: (low/med) LOW Time Analyzed: 2034

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG5979-LCS	WG5979-2	CUB2052	02/26/04	2144
02	G01-MW-11-0204	WU0346-1	CUB2053	02/26/04	2253
03	KW-DUP-02-0204	WU0346-3	CUB2054	02/27/04	0004
04	G01-MW-07-0204	WU0346-5	CUB2055	02/27/04	0114
05	G01-MW-10-0204	WU0346-7	CUB2056	02/27/04	0224
06	G01-MW-09-0204	WU0346-8	CUB2057	02/27/04	0333
07	G01-MW-12-0204	WU0346-9	CUB2058	02/27/04	0443
08	G01-MW-08-0204	WU0346-10	CUB2059	02/27/04	0552
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO297 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 02/11/04
Analysis Date: 02/26/04
Report Date: 03/02/2004
Matrix: WATER
% Solids: NA

Lab ID: WG5979-1
Client ID: WG5979-Blank
SDG: CTO297-4
Extracted by: JP
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8100
Lab Prep Batch: WG5979
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	280
	n-Triacontane-D62		104%				
	O-Terphenyl		119%				

FORM 2
WATER FL-PRO SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 OTP#	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	WG5894-BLANK	WG5894-1	73	86							0
02	WG5894-LCS	WG5894-2	71	88							0
03	WG5894-LCSD	WG5894-3	77	93							0
04	G01-MW-01A-0204	WU0318-2	79	93							0
05	G01-MW-01-0204	WU0318-3	70	85							0
06	G01-MW-03-0204	WU0318-4	74	87							0
07	G01-MW-02-0204	WU0318-5	82	94							0
08	G01-MW-05-0204	WU0334-2	64	72*							1
09	G01-MW-06-0204	WU0334-1	72	79*							1
10	G01-MW-04-0204	WU0318-6	72	81*							1
11	WG5979-BLANK	WG5979-1	104	119							0
12	WG5979-LCS	WG5979-2	76	93							0
13	G01-MW-11-0204	WU0346-1	92	99							0
14	KW-DUP-02-0204	WU0346-3	95	99							0
15	G01-MW-07-0204	WU0346-5	78	82							0
16	G01-MW-10-0204	WU0346-7	90	95							0
17	G01-MW-09-0204	WU0346-8	90	94							0
18	G01-MW-12-0204	WU0346-9	83	86							0
19	G01-MW-08-0204	WU0346-10	98	104							0
20											
21											
22											
23											
24											
25											
26											
27											
28											

		QC LIMITS
S1	= n-Triacontane-D62	(42-193)
S2 (OTP)	= O-Terphenyl	(82-142)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 6
FL-PRO INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GC12 Calibration Date(s): 01/15/04 01/15/04

Column: ZB-1 ID: 0.53 (mm) Calibration Time(s): 0329 0809

LAB FILE ID: RF5: CUA2058 RF20: CUA2059 RF50: CUA2060
RF100: CUA2061 RF200: CUA2062

COMPOUND	RF5	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
C-24	28608	115080	291160	567020	1159700	LINR	0.21946184	1.729e-004	0.99986	0.99000
C-8	29571	113520	285540	559500	1120700	LINR	-0.3179999	1.787e-004	0.99998	0.99000
C-10	44616	119260	291320	572080	1153100	LINR	-0.9962156	1.747e-004	0.99981	0.99000
C-12	8727	118790	296890	573940	1155400	LINR	0.67416490	1.722e-004	0.99955	0.99000
C-14	30797	116970	289990	572110	1157900	LINR	-5.64e-002	1.731e-004	0.99996	0.99000
C-16	30385	117240	293420	575020	1165800	LINR	-3.37e-002	1.72e-004	0.99994	0.99000
C-18	29940	116910	292420	573010	1166600	LINR	8.384e-002	1.719e-004	0.99991	0.99000
C-28	29723	116310	294110	572040	1164400	LINR	3.314e-002	1.722e-004	0.99990	0.99000
C-20	29610	116560	293280	571720	1164600	LINR	6.577e-002	1.722e-004	0.99990	0.99000
C-22	29259	116660	293340	572810	1169300	LINR	0.16148628	1.715e-004	0.99989	0.99000
FL-PRO peaks C8-C40	491470	1955200	4966100	9706200	2.e+007	LINR	0.84359268	1.732e-004	0.99994	0.99000
C-26	29407	115890	294330	572720	1167500	LINR	0.11742793	1.717e-004	0.99989	0.99000
C-38	28905	107560	279190	558160	1129200	LINR	0.41790430	1.771e-004	0.99995	0.99000
C-40	23709	102680	285040	550470	1136800	LINR	1.00039501	1.758e-004	0.99970	0.99000
C-30	31378	117890	295870	573650	1161900	LINR	-0.2570571	1.727e-004	0.99992	0.99000
C-32	29450	114070	293980	572950	1156100	LINR	-4.48e-002	1.732e-004	0.99995	0.99000
C-34	29113	115760	300230	585980	1178500	LINR	-2.36e-002	1.698e-004	0.99995	0.99000
C-36	28271	114090	296030	583060	1159300	LINR	-0.1381361	1.723e-004	0.99995	0.99000
O-Terphenyl	6399.80	6360.20	6552.40	6396.50	6295.50	AVRG		6400.87200	1.477	40.000
n-Triacontane-D62	5100.80	5099.40	5229.10	5106.60	5062.00	AVRG		5119.58333	1.245	40.000

FORM VI FL-PRO

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GC12 Calibration Date: 02/26/04 Time: 0413

Lab File ID: CUB2037 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 0329 0809

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
C-24	47.154000	50.000000	5429.9000	0.01	-5.69	25.00	LINR
C-8	47.103000	50.000000	5306.5000	0.01	-5.79	25.00	LINR
C-10	47.389000	50.000000	5538.3000	0.01	-5.22	25.00	LINR
C-12	49.453000	50.000000	5664.1000	0.01	-1.09	25.00	LINR
C-14	48.809000	50.000000	5644.4000	0.01	-2.38	25.00	LINR
C-16	47.793000	50.000000	5562.5000	0.01	-4.41	25.00	LINR
C-18	48.056000	50.000000	5582.1000	0.01	-3.89	25.00	LINR
C-28	47.164000	50.000000	5474.0000	0.01	-5.67	25.00	LINR
C-20	47.831000	50.000000	5548.6000	0.01	-4.34	25.00	LINR
C-22	47.338000	50.000000	5502.8000	0.01	-5.32	25.00	LINR
FL-PRO peaks C8-C40	812.03000	850.00000	5510.7000	0.01	-4.47	25.00	LINR
C-26	47.022000	50.000000	5463.3000	0.01	-5.96	25.00	LINR
C-38	48.758000	50.000000	5458.3000	0.01	-2.48	25.00	LINR
C-40	50.142000	50.000000	5589.9000	0.01	0.28	25.00	LINR
C-30	46.918000	50.000000	5464.1000	0.01	-6.16	25.00	LINR
C-32	46.581000	50.000000	5383.6000	0.01	-6.84	25.00	LINR
C-34	46.926000	50.000000	5530.7000	0.01	-6.15	25.00	LINR
C-36	47.595000	50.000000	5539.4000	0.01	-4.81	25.00	LINR
O-Terphenyl	6400.9000	6202.4000	6202.4000	0.01	-3.10	25.00	AVRG
n-Triacontane-D62	5119.6000	4860.4000	4860.4000	0.01	-5.06	25.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GC12 Calibration Date: 02/26/04 Time: 1924

Lab File ID: CUB2050 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 0329 0809

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
C-24	48.790000	50.000000	5809.3000	0.01	-2.42	25.00	LINR
C-8	49.052000	50.000000	5531.8000	0.01	-1.90	25.00	LINR
C-10	49.467000	50.000000	5595.0000	0.01	-1.07	25.00	LINR
C-12	50.798000	50.000000	5913.9000	0.01	1.60	25.00	LINR
C-14	49.983000	50.000000	5895.1000	0.01	-0.03	25.00	LINR
C-16	48.902000	50.000000	5915.8000	0.01	-2.20	25.00	LINR
C-18	49.250000	50.000000	5927.7000	0.01	-1.50	25.00	LINR
C-28	48.774000	50.000000	5856.8000	0.01	-2.45	25.00	LINR
C-20	49.036000	50.000000	5886.7000	0.01	-1.93	25.00	LINR
C-22	49.067000	50.000000	5900.2000	0.01	-1.87	25.00	LINR
FL-PRO peaks C8-C40	838.36000	850.00000	5777.4000	0.01	-1.37	25.00	LINR
C-26	48.741000	50.000000	5854.8000	0.01	-2.52	25.00	LINR
C-38	50.176000	50.000000	5558.5000	0.01	0.35	25.00	LINR
C-40	50.513000	50.000000	4903.0000	0.01	1.03	25.00	LINR
C-30	48.947000	50.000000	5893.2000	0.01	-2.11	25.00	LINR
C-32	48.923000	50.000000	5852.5000	0.01	-2.15	25.00	LINR
C-34	48.836000	50.000000	5999.3000	0.01	-2.33	25.00	LINR
C-36	49.105000	50.000000	5921.8000	0.01	-1.79	25.00	LINR
O-Terphenyl	6400.9000	6597.0000	6597.0000	0.01	3.06	25.00	AVRG
n-Triacontane-D62	5119.6000	5212.1000	5212.1000	0.01	1.81	25.00	AVRG

FORM VII PEST

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO297 NAS KEY WEST SDG No.: CTO297-4

Instrument ID: GC12 Calibration Date: 02/27/04 Time: 0922

Lab File ID: CUB2062 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 0329 0809

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
C-24	48.885000	50.000000	5630.2000	0.01	-2.23	25.00	LINR
C-8	48.707000	50.000000	5485.9000	0.01	-2.59	25.00	LINR
C-10	49.526000	50.000000	5782.8000	0.01	-0.95	25.00	LINR
C-12	50.229000	50.000000	5754.2000	0.01	0.46	25.00	LINR
C-14	49.978000	50.000000	5779.4000	0.01	-0.04	25.00	LINR
C-16	49.624000	50.000000	5775.5000	0.01	-0.75	25.00	LINR
C-18	49.642000	50.000000	5766.7000	0.01	-0.72	25.00	LINR
C-28	48.819000	50.000000	5666.3000	0.01	-2.36	25.00	LINR
C-20	49.248000	50.000000	5713.2000	0.01	-1.50	25.00	LINR
C-22	49.216000	50.000000	5721.8000	0.01	-1.57	25.00	LINR
FL-PRO peaks C8-C40	839.61000	850.00000	5698.6000	0.01	-1.22	25.00	LINR
C-26	48.786000	50.000000	5668.8000	0.01	-2.43	25.00	LINR
C-38	50.399000	50.000000	5643.7000	0.01	0.80	25.00	LINR
C-40	48.973000	50.000000	5456.9000	0.01	-2.05	25.00	LINR
C-30	48.976000	50.000000	5702.5000	0.01	-2.05	25.00	LINR
C-32	49.052000	50.000000	5669.0000	0.01	-1.90	25.00	LINR
C-34	49.981000	50.000000	5890.6000	0.01	-0.04	25.00	LINR
C-36	49.566000	50.000000	5768.2000	0.01	-0.87	25.00	LINR
O-Terphenyl	6400.9000	6434.6000	6434.6000	0.01	0.53	25.00	AVRG
n-Triacontane-D62	5119.6000	5046.4000	5046.4000	0.01	-1.43	25.00	AVRG

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Mod. RSK-175

INVENTORY SHEET

Work Order #: 0402100

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b. Target Compound Raw Data		
-Internal Standard Area and Retenetion Time Summary		
-Surrogate Recovery Summary (If Applicable)		
-Chromatogram(s) and Ion Profiles (If Applicable)		
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Comments:

Completed by:

Judy Lee	Judy Lee / Document Control	2/25/04
(Signature)	(Print Name & Title)	(Date)

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0402100

Work Order Summary

CLIENT:	Ms. Andrea Colby Katahdin Laboratory 340 County Road, #5 West Brook, ME 04092	**BILL TO:**	Ms. Andrea Colby Katahdin Laboratory 340 County Road, #5 West Brook, ME 04092
PHONE:	207-874-2400	**P.O. #**	
FAX:	207-775-4029	**PROJECT #**	WU0318 Keywest
DATE RECEIVED:	2/6/2004	**CONTACT:**	Betty Chu
DATE COMPLETED:	2/17/2004		

FRACTION #	NAME	TEST
01A	G01-MW-01A-0204	Mod. RSK-175
01AA	G01-MW-01A-0204 Duplicate	Mod. RSK-175
02A	G01-MW-01-0204	Mod. RSK-175
03A	G01-MW-03-0204	Mod. RSK-175
04A	G01-MW-02-0204	Mod. RSK-175
05A	G01-MW-04-0204	Mod. RSK-175
06A	Lab Blank	Mod. RSK-175
07A	LCS	Mod. RSK-175

CERTIFIED BY: Linda A. Truman DATE: 02/17/04

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/03, Expiration date: 06/30/04
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified RSK 175
Katahdin Laboratory
Workorder# 0402100

Five VOA Vial-40 mL samples were received on February 06, 2004. The laboratory performed analysis via Modified RSK 175 for Methane, Ethane and Ethene using GC/FID. The method involves placing an aliquot of the sample in a headspace vial. The vial is then placed into HP7694 Headspace Autosampler equipped with oven, shaker and 1 mL sample loop. Sample is incubated and then equilibrated at 40°C for 15 minutes with high agitation. Finally, a direct injection of the headspace is performed. See the data sheets for the reporting limits for each compound.

Requirement	*RSK 175*	*ATL Modifications*
Sample Collection	Collect sample in 60 mL crimp-top vial.	Collect sample in 40 mL VOA vial.
Headspace Generation	Headspace is generated in 60 mL sample vial by displacing volume of liquid with Helium. The amount of liquid should be 10% of sample volume in bottle, up to 10 mL.	5.0 mL of sample is displaced with 5.0 mL Nitrogen and transferred to a Nitrogen purged and capped autosampler vial. Headspace is then generated in the autosampler vial.
Sample Preparation	Sample is shaken 5 min. to equilibrate analyte between headspace and liquid phase.	Prior to injection, autosampler shakes sample for 15 min. while heating to 40°C.
Headspace Injection	Syringe injection of 300 mL headspace into GC.	Autosampler pressurizes sample to fill 1.0 mL loop with headspace sample.
Calibration and Quantitation	Direct injections of gas phase standards are used to obtain a Calibration Curve. Henry's Law is used to calculate mg of gas per Liter of water. Calculation requires recording total volume of serum bottle and headspace, and sample temperature.	Calibration standards are prepared by addition of a gaseous spike solution to clean water. Response factors are calculated for each level of a multi point calibration, and the mean is used to calculate quantitation for each target analyte.
Initial Calibration Curve (ICAL)	Linear regression	% RSD </= 30%, use average RF to quantify results
Lab Blanks	Blank subtraction is performed.	No blank subtraction; Lab Blank must be less than the Reporting Limit.
Specified Detectors	FID or ECD	FID or TCD

Receiving Notes

Water samples G01-MW-01A-0204, G01-MW-03-0204 and G01-MW-04-0204 were received with a significant amount of headspace. (i.e., the diameter of the bubble was greater than 5 mm). The discrepancy was noted in the Login email.

0002

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
G01-MW-01A-0204	0402100-01A	2/ 4/2004	2/ 6/2004	NA	6	2/10/2004	NA	Good
G01-MW-01A-0204 Dupl	0402100-01AA	2/ 4/2004	2/ 6/2004	NA	6	2/10/2004	NA	Good
G01-MW-01-0204	0402100-02A	2/ 4/2004	2/ 6/2004	NA	6	2/10/2004	NA	Good
G01-MW-03-0204	0402100-03A	2/ 4/2004	2/ 6/2004	NA	6	2/10/2004	NA	Good
G01-MW-02-0204	0402100-04A	2/ 4/2004	2/ 6/2004	NA	6	2/10/2004	NA	Good
G01-MW-04-0204	0402100-05A	2/ 4/2004	2/ 6/2004	NA	6	2/10/2004	NA	Good
Lab Blank	0402100-06A	NA	NA	NA	NA	2/10/2004	NA	Good
LCS	0402100-07A	NA	NA	NA	NA	2/10/2004	NA	Good

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0402100-06A

MODIFIED METHOD RSK-175 GC/FID

File Name:	040210003	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/10/04 09:01 AM	

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	Not Detected
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

Container Type: NA - Not Applicable

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 11-APR-2003 11:42
End Cal Date : 11-APR-2003 14:02
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/gc7.i/16Jul2003.b/38100411m5a.m
Cal Date : 17-Jul-2003 10:52 atoyama
Curve Type : Average

Calibration File Names:
Level 1: /chem/gc7.i/11Apr2003.b/7041103.d
Level 2: /chem/gc7.i/11Apr2003.b/7041104.d
Level 3: /chem/gc7.i/11Apr2003.b/7041105.d
Level 4: /chem/gc7.i/11Apr2003.b/7041106.d
Level 5: /chem/gc7.i/11Apr2003.b/7041107.d
Level 6: /chem/gc7.i/11Apr2003.b/7041108.d

Compound	0.00500 Level 1	0.02700 Level 2	0.06700 Level 3	1.330 Level 4	6.651 Level 5	133.028 Level 6	___ RRF	% RSD
1 Methane	23473600	20391519	18145642	19641331	15588518	18737320	19329655	13.519
2 Ethylene	22286222	21228170	19317603	20626919	16449448	+++++	19981673	11.246
3 Ethane	23052444	20508100	18422992	19735760	15755809	+++++	19495021	13.781
4 Propene	23241100	22213288	19741557	20499315	15275004	23483000	20742211	14.761
5 Propane	24163100	21716018	19656431	20275345	15092413	22819091	20620400	15.365

Report Date: 11-Feb-2004 10:53

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc7.i Injection Date: 10-FEB-2004 08:18
Lab File ID: 7021001.d Init. Cal. Date(s): 11-APR-2003 11-APR-2003
Analysis Type: AIR Init. Cal. Times: 11:42 14:02
Lab Sample ID: CCV Quant Type: ESTD
Method: /chem/gc7.i/10Feb2004.b/38100411m5a.m

COMPOUND	RRF / AMOUNT	RF0.000	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Methane	19329655	20942291	0.100	-8.34281	30.00000	Averaged
2 Ethylene	19981673	22304284	0.010	-11.62371	30.00000	Averaged
3 Ethane	19495021	21145850	0.010	-8.46795	30.00000	Averaged

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0402100-07A

MODIFIED METHOD RSK-175 GC/FID

File Name:	7021002	Date of Collection: NA	
Dil Factor:	1.00	Date of Analysis: 2/10/04 08:40 AM	

Compound	%Recovery
Methane	105
Ethane	107
Ethene	109

Container Type: NA - Not Applicable

@ AIR TOXICS LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 Blue Ravine Road, Suite B
Folsom, CA 95630

Phone (916) 985-1000 FAX (916) 985-1020
Hours 8:00 A.M. to 6:00 P.M. Pacific

COMPANY: Katahdin Laboratory
ATTENTION: Ms. Andrea Colby
FAX #: 207-775-4029
FROM: Sample Receiving
Workorder #: 0402100
# of pages (Including Cover): 1

2/25/2004

Thank you for selecting Air Toxics Ltd. We have received your samples and have found discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Betty Chu at 916-985-1020.**
ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

This account is currently on financial hold. Please contact our Accounts Receivables department to make payment arrangements.

The following discrepancies have been observed:

Water sample G01-MW-01A-0204, G01-MW-03-0204, and G01-MW-04-0204 were received with a significant amount of headspace (the diameter of the bubble was greater than 5mm). ATL will proceed with the analysis unless otherwise notified.

Your prompt response is appreciated.

Katahdin
ANALYTICAL SERVICES

340 County Road No. 5
P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

0402100

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

0402100

Page ___ of ___

Client: Katahdin | Contact: Andrew Colby | Phone #: ( ) | Fax #: ( )

Address: 46 Annare | City | State | Zip Code

Purchase Order # | Proj. Name / No: Wilcox - Key West | Katahdin Quote #

Bill (if different than above) | Address

Sampler (Print / Sign) | Copies To:

LAB USE ONLY | WORK ORDER #:

KATAHDIN PROJECT NUMBER

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C ___ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE
PRESERVATIVES

Methanol kit

CUSTODY SEAL INTACT?
(Y) N NONE TEMP 3.2°C

#	Sample Description	Date / Time collected	Matrix	No. of Cntrs.	Filt. Y N	Filt. Y N	Filt. Y N	Filt. Y N	Filt. Y N	Filt. Y N	Filt. Y N	Filt. Y N	Filt. Y N	Filt. Y N
01A	601-MW-01A-0204 MS	2/4/04 1015	AQ	2	X									
02A	601-MW-02A-0204	2/4/04 1210	AQ	2	X									
03A	601-MW-03-0204	2/4/04 1005	AQ	2	X									
04A	601-MW-04-0204	2/4/04 1510	AQ	2	X									
DUP	601-MW-01-0204	2/4/04 1515	AQ	2	X									
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COMMENTS

GC-EDWARDS SDG Cover Sheet Begin DD Wilcox GC-TXT

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
	2/4/04 1515				
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
				2/6/04 1015	

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

ORIGINAL

RAS 03/31

0079

Sample Discrepancy Report

If Section III or IV is filled out, Client Services or Team leader must receive form within 24 hrs of initiation

Initiated By: CM Date: 2/6/04 Given To: _____

Sections I - IV must be filled out by person initiating this Sample Discrepancy Report.

Team Leader: _____ Date: _____ Given To: _____

Verify Sections I and IV were filled out correctly and completely. Forward form to Client Services or file to folder.

Client Service: _____ Date: _____ Given To: _____

Section V must be filled out by Client Serv. Personnel only and form returned to Workorder Folder.

I. Work order(s) affected: 0402100

Sample(s) affected: all

II. Login Discrepancies ***(Document in Login FAX/E-mail and Lab Narrative)***

- ☐ Chain of Custody Record (COC) improperly relinquished.
- ☐ COC was not filled out in ink.
- ☐ Number of samples on the COC does not match the number of samples that were received.
- ☐ Sampling date / time is not documented for some samples.
- ☐ Sample tags/labels do not match the COC.
- ☐ Samples received at wrong temperature, however coolant was present.
- ☐ Canister sample received at >15"Hg (not identified as a Trip/Field Blank).
- ☐ Sample container (Tube/VOA vial) was received broken, however, sample was intact.
- ☐ No brass cap on canister.
- ☐ Custody Seal on the outside of the container was broken.
- ☐ Flow controller used - canister samples received at ambient pressure.
- ☒ Other (describe below)

Describe the Discrepancy: 02A = 5mm
04A = 5mm

Initials: CM **Date:** 2/6/04

III. Login Discrepancies requiring Client Services notification ***(document in Login Fax/E-mail and Lab Narrative)***

- ☐ Chain of Custody Record (COC) was not received with sample(s).
- ☐ Analysis method(s) is not specified on the COC.
- ☐ Sample(s) received out of Holding Time.
- ☐ Sampling date / time is not documented for any samples.
- ☐ Samples received at wrong temperature, no coolant present (or coolant melted).
- ☐ Sample container (Tube/VOA vial/DNPH Bottle, etc.) was received broken or leaking.
- ☒ Container for VOA analysis received with headspace.
- ☐ Samples for RSK-175 CO_2 analysis received preserved with HCL.
- ☐ Tedlar Bag received leaking/flat.
- ☐ Canister received with a leaky valve, or found to be leaking at the time of pressurization.
- ☐ Tedlar bag / canister received emitting a strong odor (sample cannot be analyzed).
- ☐ Initial laboratory Vac./Press. does not match final field pressure (> 5 psi/"Hg difference).
- ☐ Trip Blank received with low vacuum (< 25 "Hg).
- ☐ Tedlar Bag for Sulfur analysis has metal fitting.
- ☐ Incorrect sampling media/container for analysis requested.
- ☐ Other (describe below)

Describe the Discrepancy: 01A: 8mm
03A: 6mm
05A: 6mm

Initials: CM **Date:** 2/6/04 ***(Section V must be filled out by Client Services)***

Compound Listing

Mod. RSK-175 (Methane, Ethane & Ethene)

CAS Number	Compound	Detection Limit uG/mL
74-82-8	Methane	0.010
74-84-0	Ethane	0.010
74-85-1	Ethene	0.010

@Air Toxics Ltd.

DATA REVIEW CHECKLIST Work Order #: 0402100

A_1	A_2	T	Q	
	☑	☐	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
N/A	N/A	☐	☐	Corrective Action issued - #
☑	☑	☐	☐	Unusual circumstances have been documented in the Notes section below
☑	☑		☐	Client Sample IDs are correct (checked COC against Login page)
☑	☑	☐	☐	Analysis verified against Analysis requested on COC
☑	☑	☐	☐	Analysis vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
☑	☑	☐	☐	Lab Blank, CCV, LCS/D, Dup. (%RPD) met QC criteria
N/A	N/A	☐	☐	Short-list QC criteria met, 50/150% rule met for TO-14 analyses, etc.
☑	☑	☐	☐	Hold Time is met for all samples
	N/A	☐	☐	Appropriate data qualifier Flags are applied
N/A	N/A	☐	☐	12 Hour Clock verification (if required by the project)
	N/A	☐	☐	Checked samples for trends (i.e. Influent>Effluent, etc)
☑	☑	☐	☐	Correct amount of sample analyzed (i.e. sample not over-diluted)
☑	☑	☐	☐	Samples pressurized w/ appropriate gas (N_2 or He)
☑	☑	☐	☐	Final Pressure consistent with Canister size (6L vs. 1L)
N/A	☑	☐	☐	Dilution Factor correctly calculated (based on sample vol. loaded/final pressure)
☐	☑	☐	☐	Peak area integration correct
☐	☑	☐	☐	Retention Times have been verified
☐	N/A	☐	☐	Spectra verified - Documentation of spectral defense included (Section 5A of eCVP pkg)
	N/A	☐	☐	System peaks verified (if applicable)
	N/A	☐	☐	TICs resemble reference spectra/are consistently identified between duplicate samples
	N/A	☐	☐	TPH/NMOC manual calculations verified
☑	☐	☐	☐	Appropriate ICAL(s) included (Calibration History, Run Log(s), etc)
			☐	BFB/DFTPP Tune, CCV, LCS, SS, and Sample Result Calculation checked
			☐	Manually calculated/manually entered results checked
			☐	The final report has the correct Reporting List, units, and header info.
			☐	Special units for all samples in the final report are correctly calculated
			☐	CVP package/Client Specific Deliverable is complete and correct

Notes: *(to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)*

A_1/A_2: All QC met
Dup on 01A, RPD within limits.

T/Q:

A_1 (Analytical Review/Date)	A_2 (Analytical Review/Date)	T (Technical Review/Date)	Q (QA Review/Date)
[signature] 2/10/04	[signature] 2/17/04		

Note:Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Revision Date: 02/05/03

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Mod SW-846 Method 3810

INVENTORY SHEET

Work Order #: 0402144

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b. Target Compound Raw Data		
-Internal Standard Area and Retenetion Time Summary		
-Surrogate Recovery Summary (If Applicable)		
-Chromatogram(s) and Ion Profiles (If Applicable)		
3. QC Results and Raw Data		
a. Method Blank (Results+ Raw Data)	14	17
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c. Internal Standard Summary Form (If Applicable)	--	--
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e. Laboratory Corrective Action Request	--	--
f. CAS Number Reference	79	79
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h. Canister Certification	--	--
i. Data Review Check Sheet	80	80

Comments:

Completed by:

Judy Lee — Judy Lee / Document Control — 2/26/04

(Signature) (Print Name & Title) (Date)

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0402144

Work Order Summary

CLIENT:	Mr. Rob Thomas Katahdin Laboratory 340 County Road, #5 West Brook, ME 04092	**BILL TO:**	Mr. Rob Thomas Katahdin Laboratory 340 County Road, #5 West Brook, ME 04092
PHONE:	207-874-2400	**P.O. #**	
FAX:	207-775-4029	**PROJECT #**	WU0334
DATE RECEIVED:	2/10/2004	**CONTACT:**	Betty Chu
DATE COMPLETED:	2/18/2004		

FRACTION #	NAME	TEST
01A	G01-MW-06-0204	Mod SW-846 Method 3810
02A	G01-MW-05-0204	Mod SW-846 Method 3810
02AA	G01-MW-05-0204 Duplicate	Mod SW-846 Method 3810
03A	Lab Blank	Mod SW-846 Method 3810
04A	LCS	Mod SW-846 Method 3810
05A	LCSD	Mod SW-846 Method 3810

CERTIFIED BY: Linda A. Frumarc DATE: 02/18/04

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/03, Expiration date: 06/30/04
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Mod SW-846 Method 3810
Katahdin Laboratory
Workorder# 0402144

Two VOA Vial-40 mL samples were received on February 10, 2004. The laboratory performed analysis via Modified SW-846 Method 3810 for Methane, Ethane, Ethene using GC/FID. The method involves placing an aliquot of the sample in a headspace vial. The vial is then placed into HP7694 Headspace Sampler equipped with oven, shaker and 1 mL sample loop. Sample is baked and equilibrated at 40°C for 15 minutes with high agitation. Finally, a direct injection of the headspace is performed. See the data sheets for the reporting limits for each compound.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

0002

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
G01-MW-06-0204	0402144-01A	2/ 5/2004	2/10/2004	NA	6	2/11/2004	NA	Good
G01-MW-05-0204	0402144-02A	2/ 5/2004	2/10/2004	NA	6	2/11/2004	NA	Good
G01-MW-05-0204 Dupli	0402144-02AA	2/ 5/2004	2/10/2004	NA	6	2/11/2004	NA	Good
Lab Blank	0402144-03A	NA	NA	NA	NA	2/11/2004	NA	Good
LCS	0402144-04A	NA	NA	NA	NA	2/11/2004	NA	Good
LCSD	0402144-05A	NA	NA	NA	NA	2/11/2004	NA	Good

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0402144-03A

MODIFIED SW-846 METHOD 3810 GC/FID

File Name:	7021108	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis:	2/11/04 08:45 AM

Compound	Rpt. Limit (uG/L)	Amount (uG/L)
Methane	10	Not Detected
Ethane	10	Not Detected
Ethene	10	Not Detected

Container Type: NA - Not Applicable

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: 7021115.d & 7021114.d

Lab Sample ID: 02A & 02AA

Dilution: 1.00 & 1.00

Client Sample ID: G01-MW05-0204 & G01-MW05-0204 DUP

Date Analyzed: 2/11/04 & 2/11/04

		Original		Duplicate		
CAS Number	Compound	Amount	Flags	Amount	Flags	RPD
74-82-8	Methane	4.44		4.705		5.8
74-84-0	Ethane	ND	U	ND	U	0
74-85-1	Ethene	ND	U	ND	U	0

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: 7021106.d & 7021107.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCSD & LCS

Date Analyzed: 2/11/04 & 2/11/04

		Original		Duplicate		
CAS Number	Compound	Amount	Flags	Amount	Flags	RPD
74-82-8	Methane	112		100		11
74-84-0	Ethane	112		103		8.4
74-85-1	Ethene	115		105		9.1

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 11-APR-2003 11:42
End Cal Date : 11-APR-2003 14:02
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/gc7.i/16Jul2003.b/38100411m5a.m
Cal Date : 17-Jul-2003 10:52 atoyama
Curve Type : Average

Calibration File Names:
Level 1: /chem/gc7.i/11Apr2003.b/7041103.d
Level 2: /chem/gc7.i/11Apr2003.b/7041104.d
Level 3: /chem/gc7.i/11Apr2003.b/7041105.d
Level 4: /chem/gc7.i/11Apr2003.b/7041106.d
Level 5: /chem/gc7.i/11Apr2003.b/7041107.d
Level 6: /chem/gc7.i/11Apr2003.b/7041108.d

Compound	0.00500 Level 1	0.02700 Level 2	0.06700 Level 3	1.330 Level 4	6.651 Level 5	133.028 Level 6	___ RRF	% RSD
1 Methane	23473600	20391519	18145642	19641331	15588518	18737320	19329655	13.519
2 Ethylene	22286222	21228170	19317603	20626919	16449448	+++++	19981673	11.246
3 Ethane	23052444	20508100	18422992	19735760	15755809	+++++	19495021	13.781
4 Propene	23241100	22213288	19741557	20499315	15275004	23483000	20742211	14.761
5 Propane	24163100	21716018	19656431	20275345	15092413	22819091	20620400	15.365

Report Date: 11-Feb-2004 08:30

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc7.i Injection Date: 11-FEB-2004 07:42
Lab File ID: 7021105.d Init. Cal. Date(s): 11-APR-2003 11-APR-2003
Analysis Type: AIR Init. Cal. Times: 11:42 14:02
Lab Sample ID: Quant Type: ESTD
Method: /chem/gc7.i/11Feb2004.b/38100411m5a.m

COMPOUND	RRF / AMOUNT	RF0.000	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Methane	19329655	20861218	0.100	-7.92339	30.00000	Averaged
2 Ethylene	19981673	22281779	0.010	-11.51108	30.00000	Averaged
3 Ethane	19495021	21115980	0.010	-8.31474	30.00000	Averaged

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0402144-04A

MODIFIED SW-846 METHOD 3810 GC/FID

File Name:	702-1106	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/11/04 08:03 AM	

Compound	%Recovery
Methane	112
Ethane	112
Ethene	115

Container Type: NA - Not Applicable

AIR TOXICS LTD.

SAMPLE NAME: LCSD

ID#: 0402144-05A

MODIFIED SW-846 METHOD 3810 GC/FID

File Name:	702F107	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/11/04 08:24 AM

Compound	%Recovery
Methane	100
Ethane	103
Ethene	105

Container Type: NA - Not Applicable

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Mod SW-846 Method 3810

INVENTORY SHEET

Work Order #: 0402145

	Page Nos.	
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b. Target Compound Raw Data		
-Internal Standard Area and Retenetion Time Summary		
-Surrogate Recovery Summary (If Applicable)		
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Sample Receipt Discrepancy Report	88	89
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b. Manual Integrations	--	--
c. Manual Calculations	--	--
d. Canister Dilution Factors	--	--
e. Laboratory Corrective Action Request	--	--
f. CAS Number Reference	91	91
g. Variance Table	--	--
h. Canister Certification	--	--
i. Data Review Check Sheet	92	92

Comments:

Completed by:

Judy Lee	Judy Lee / Document Control	2/26/04
(Signature)	(Print Name & Title)	(Date)

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0402145

Work Order Summary

CLIENT:	Mr. Rob Thomas Katahdin Laboratory 340 County Road, #5 West Brook, ME 04092	**BILL TO:**	Mr. Rob Thomas Katahdin Laboratory 340 County Road, #5 West Brook, ME 04092
PHONE:	207-874-2400	**P.O. #**	
FAX:	207-775-4029	**PROJECT #**	WU0346
DATE RECEIVED:	2/10/2004	**CONTACT:**	Betty Chu
DATE COMPLETED:	2/18/2004		

FRACTION #	NAME	TEST
01A	G01-MW-11-0204	Mod SW-846 Method 3810
02A	KW-Dup-02-0204	Mod SW-846 Method 3810
03A	G01-MW-07-0204	Mod SW-846 Method 3810
04A	G01-MW-10-0204	Mod SW-846 Method 3810
05A	G01-MW-09-0204	Mod SW-846 Method 3810
06A	G01-MW-12-0204	Mod SW-846 Method 3810
07A	G01-MW-08-0204	Mod SW-846 Method 3810
08A	Lab Blank	Mod SW-846 Method 3810
09A	LCS	Mod SW-846 Method 3810
10A	LCSD	Mod SW-846 Method 3810

CERTIFIED BY: Linda J. Furman DATE: 02/18/04

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/03, Expiration date: 06/30/04
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Mod SW-846 Method 3810
Katahdin Laboratory
Workorder# 0402145

Seven VOA Vial-40 mL samples were received on February 10, 2004. The laboratory performed analysis via Modified SW-846 Method 3810 for Methane, Ethane, Ethene using GC/FID. The method involves placing an aliquot of the sample in a headspace vial. The vial is then placed into HP7694 Headspace Sampler equipped with oven, shaker and 1 mL sample loop. Sample is baked and equilibrated at 40°C for 15 minutes with high agitation. Finally, a direct injection of the headspace is performed. See the data sheets for the reporting limits for each compound.

Receiving Notes

Water samples G01-MW-07-0204 and G01-MW-10-0204 were received with a significant amount of headspace. (i.e., the diameter of the bubble was greater than 5 mm). The discrepancy was noted in the Login email.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
G01-MW-11-0204	0402145-01A	2/ 6/2004	2/10/2004	NA	5	2/11/2004	NA	Good
KW-Dup-02-0204	0402145-02A	2/ 6/2004	2/10/2004	NA	5	2/11/2004	NA	Good
G01-MW-07-0204	0402145-03A	2/ 6/2004	2/10/2004	NA	5	2/11/2004	NA	Good
G01-MW-10-0204	0402145-04A	2/ 6/2004	2/10/2004	NA	5	2/11/2004	NA	Good
G01-MW-09-0204	0402145-05A	2/ 6/2004	2/10/2004	NA	5	2/11/2004	NA	Good
G01-MW-12-0204	0402145-06A	2/ 6/2004	2/10/2004	NA	5	2/11/2004	NA	Good
G01-MW-08-0204	0402145-07A	2/ 6/2004	2/10/2004	NA	5	2/11/2004	NA	Good
Lab Blank	0402145-08A	NA	NA	NA	NA	2/11/2004	NA	Good
LCS	0402145-09A	NA	NA	NA	NA	2/11/2004	NA	Good
LCSD	0402145-10A	NA	NA	NA	NA	2/11/2004	NA	Good

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0402145-08A

MODIFIED SW-846 METHOD 3810 GC/FID

File Name:	02110B	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/11/04 08:45 AM	

Compound	Rpt. Limit (uG/L)	Amount (uG/L)
Methane	10	Not Detected
Ethane	10	Not Detected
Ethene	10	Not Detected

Container Type: NA - Not Applicable

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 11-APR-2003 11:42
End Cal Date : 11-APR-2003 14:02
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/gc7.i/16Jul2003.b/38100411m5a.m
Cal Date : 17-Jul-2003 10:52 atoyama
Curve Type : Average

Calibration File Names:
Level 1: /chem/gc7.i/11Apr2003.b/7041103.d
Level 2: /chem/gc7.i/11Apr2003.b/7041104.d
Level 3: /chem/gc7.i/11Apr2003.b/7041105.d
Level 4: /chem/gc7.i/11Apr2003.b/7041106.d
Level 5: /chem/gc7.i/11Apr2003.b/7041107.d
Level 6: /chem/gc7.i/11Apr2003.b/7041108.d

Compound	0.00500 Level 1	0.02700 Level 2	0.06700 Level 3	1.330 Level 4	6.651 Level 5	133.028 Level 6	___ RRF	% RSD
1 Methane	23473600	20391519	18145642	19641331	15588518	18737320	19329655	13.519
2 Ethylene	22286222	21228170	19317603	20626919	16449448	+++++	19981673	11.246
3 Ethane	23052444	20508100	18422992	19735760	15755809	+++++	19495021	13.781
4 Propene	23241100	22213288	19741557	20499315	15275004	23483000	20742211	14.761
5 Propane	24163100	21716018	19656431	20275345	15092413	22819091	20620400	15.365

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc7.i
Lab File ID: 7021105.d
Analysis Type: AIR
Lab Sample ID:
Method: /chem/gc7.i/11Feb2004.b/38100411m5a.m

Injection Date: 11-FEB-2004 07:42
Init. Cal. Date(s): 11-APR-2003 11-APR-2003
Init. Cal. Times: 11:42 14:02
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.000	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Methane	19329655	20861218	0.100	-7.92339	30.00000	Averaged
2 Ethylene	19981673	22281779	0.010	-11.51108	30.00000	Averaged
3 Ethane	19495021	21115980	0.010	-8.31474	30.00000	Averaged

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0402145-09A

MODIFIED SW-846 METHOD 3810 GC/FID

File Name:	702L06	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 2/17/04 08:03 AM	

Compound	%Recovery
Methane	112
Ethane	112
Ethene	115

Container Type: NA - Not Applicable

AIR TOXICS LTD.

SAMPLE NAME: LCSD

ID#: 0402145-10A

MODIFIED SW-846 METHOD 3810 GC/FID

File Name:	702107	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/17/04 08:24 AM

Compound	%Recovery
Methane	100
Ethane	103
Ethene	105

Container Type: NA - Not Applicable

Field Duplicates - 2974

	Sample		Duplicate		RPD %	Difference
	G01-MW-11-0204		KW-DUP-02-0204			
	UG/L		UG/L			
1,1-dichloroethane	1.0	J	1.0		0.0	0
benzene	1.0		1.0		0.0	0
cis-1,2-dichloroethene	0.4	J	0.4	J	0.0	0
ethylbenzene	8		8		0.0	0
1-methylnaphthene	41		51		21.7	10
2-methylnapthene	44		58		27.5	14
acenaphthene	3.4	J	3.4	J	0.0	0
fluorene	4.3		4		7.2	0
naphthalene	18		22		20.0	4
phenanthrene	3.6	J	4.8	J	28.6	1
methane	4800		5500		13.6	700
TPH	1800		1700		5.7	100

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **C. BRYAN** **DATE:** **MARCH 25, 2004**

FROM: **ETHAN G. LEE** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – SELECT METALS AND MISCELLANEOUS PARAMETERS**
NAS KEY WEST – CTO 318
SAMPLE DELIVERY GROUP (SDG) – 2974

SAMPLES: 14/AQUEOUS/

G01-MW-01-0204	G01-MW-01A-0204	G01-MW-02-0204
G01-MW-03-0204	G01-MW-04-0204	G01-MW-05-0204
G01-MW-06-0204	G01-MW-07-0204	G01-MW-08-0204
G01-MW-09-0204	G01-MW-10-0204	G01-MW-11-0204
G01-MW-12-0204	KW-DUP-02-0204	

Overview

The sample set for NAS Key West, CTO 318, SDG 2974, consists of fourteen (14) aqueous environmental samples. One (1) field duplicate pair (KW-DUP-02-0204 / G01-MW-11-0204) was included in this SDG.

All samples were analyzed for nitrate, and sulfate. Samples G01-MW-01-0204, G01-MW-01A-0204, G01-MW-02-0204, G01-MW-03-0204, G01-MW-04-0204, G01-MW-05-0204, G01-MW-08-0204, G01-MW-09-0204, G01-MW-10-0204, and G01-MW-12-0204 were also analyzed for lead. Samples G01-MW-06-0204, G01-MW-07-0204, G01-MW-11-0204, and KW-DUP-02-0204 were also analyzed for arsenic, cadmium, chromium, and lead. The samples were collected by Tetra Tech NUS on February 4-6, 2004 and analyzed by Katahdin Analytical Services. Metals analyses were conducted using SW846 method 6010B. Nitrate analyses were conducted using EPA method 353.2. Sulfate analyses were conducted using EPA method 375.4.

Metals analyses were conducted using Inductively Coupled Plasma (ICP) methodologies.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
* • Laboratory Blank Analyses
* • Field Duplicate Results
  • Detection Limits

Detection Limits

The positive results reported for nitrate between the laboratory's practical quantitation limit (PQL) and the method detection limit (MDL) were qualified as estimated (J) due to uncertainty near the detection limit.

Notes

Dilutions were performed for lead and nitrate in several samples due to matrix interference.

Executive Summary

Laboratory Performance: No laboratory quality control issues were noted for this SDG.

Other Factors Affecting Data Quality: Nitrate was qualified due to uncertainty near the detection limit.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", July 2002 and the NFESC document entitled "Navy IRCDQM" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Ethan G. Lee
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: M

nsample	G01-MW-01-0204	nsample	G01-MW-01A-0204	nsample	G01-MW-02-0204
samp_date	2/4/2004	samp_date	2/4/2004	samp_date	2/4/2004
lab_id	WU0318-003	lab_id	WU0318-002	lab_id	WU0318-005
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	3.12	U	

Parameter	Result	Val Qual	Qual Code
LEAD	7.8	U	

Parameter	Result	Val Qual	Qual Code
LEAD	3.12	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: M

nsample	G01-MW-03-0204	nsample	G01-MW-04-0204	nsample	G01-MW-05-0204
samp_date	2/4/2004	samp_date	2/4/2004	samp_date	2/5/2004
lab_id	WU0318-004	lab_id	WU0318-006	lab_id	WU0334-002
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	3.12	U	

Parameter	Result	Val Qual	Qual Code
LEAD	3.12	U	

Parameter	Result	Val Qual	Qual Code
LEAD	1.56	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: M

nsample	G01-MW-06-0204
samp_date	2/5/2004
lab_id	WU0334-001
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.13	U	
CADMIUM	0.25	U	
CHROMIUM	0.88	U	
LEAD	1.56	U	

nsample	G01-MW-07-0204
samp_date	2/6/2004
lab_id	WU0346-005
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	6.9		
CADMIUM	0.25	U	
CHROMIUM	0.88	U	
LEAD	3.12	U	

nsample	G01-MW-08-0204
samp_date	2/6/2004
lab_id	WU0346-010
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1.56	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: M

nsample	G01-MW-09-0204
samp_date	2/6/2004
lab_id	WU0346-008
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	3.12	U	

nsample	G01-MW-10-0204
samp_date	2/6/2004
lab_id	WU0346-007
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1.56	U	

nsample	G01-MW-11-0204
samp_date	2/6/2004
lab_id	WU0346-001
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	5.8		
CADMIUM	0.25	U	
CHROMIUM	0.88	U	
LEAD	1.56	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: M

nsample	G01-MW-12-0204
samp_date	2/6/2004
lab_id	WU0346-009
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1.56	U	

nsample	KW-DUP-02-0204
samp_date	2/6/2004
lab_id	WU0346-003
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	G01-MW-11-0204

Parameter	Result	Val Qual	Qual Code
ARSENIC	5.4		
CADMIUM	0.25	U	
CHROMIUM	0.88	U	
LEAD	1.56	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: MISC

nsample	G01-MW-01-0204
samp_date	2/4/2004
lab_id	WU0318-3
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.004	J	P
SULFATE	MG/L	2000		

nsample	G01-MW-01A-0204
samp_date	2/4/2004
lab_id	WU0318-2
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.05	U	
SULFATE	MG/L	2300		

nsample	G01-MW-02-0204
samp_date	2/4/2004
lab_id	WU0318-5
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.05	U	
SULFATE	MG/L	2200		

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: MISC

nsample	G01-MW-03-0204
samp_date	2/4/2004
lab_id	WU0318-4
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.05	U	
SULFATE	MG/L	1200		

nsample	G01-MW-04-0204
samp_date	2/4/2004
lab_id	WU0318-6
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.044	J	P
SULFATE	MG/L	1400		

nsample	G01-MW-05-0204
samp_date	2/5/2004
lab_id	WU0334-2
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.05	U	
SULFATE	MG/L	460		

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: MISC

nsample	G01-MW-06-0204
samp_date	2/5/2004
lab_id	WU0334-1
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.05	U	
SULFATE	MG/L	130		

nsample	G01-MW-07-0204
samp_date	2/6/2004
lab_id	WU0346-5
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.05	U	
SULFATE	MG/L	2000		

nsample	G01-MW-08-0204
samp_date	2/6/2004
lab_id	WU0346-10
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.0082	J	P
SULFATE	MG/L	1	U	

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: MISC

nsample	G01-MW-09-0204
samp_date	2/6/2004
lab_id	WU0346-8
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.011	J	P
SULFATE	MG/L	1300		

nsample	G01-MW-10-0204
samp_date	2/6/2004
lab_id	WU0346-7
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.05	U	
SULFATE	MG/L	500		

nsample	G01-MW-11-0204
samp_date	2/6/2004
lab_id	WU0346-1
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.1	U	
SULFATE	MG/L	160		

PROJ_NO: 4779

SDG: 2974 MEDIA: WATER DATA FRACTION: MISC

nsample	G01-MW-12-0204
samp_date	2/6/2004
lab_id	WU0346-9
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.015	J	P
SULFATE	MG/L	150		

nsample	KW-DUP-02-0204
samp_date	2/6/2004
lab_id	WU0346-3
qc_type	NM
Pct_Solids	
DUP_OF:	G01-MW-11-0204

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.1	U	
SULFATE	MG/L	140		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-01-0204

Matrix: WATER **SDG Name:** CTO297-4

Percent Solids: 0.00 **Lab Sample ID:** WU0318-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	3.12	U		P	2	10	3.12

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-01A-0204

Matrix: WATER **SDG Name:** CTO297-4

Percent Solids: 0.00 **Lab Sample ID:** WU0318-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	7.80	U		P	5	25	7.80

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-02-0204

Matrix: WATER **SDG Name:** CTO297-4

Percent Solids: 0.00 **Lab Sample ID:** WU0318-005

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	3.12	U		P	2	10	3.12

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-03-0204

Matrix: WATER **SDG Name:** CTO297-4

Percent Solids: 0.00 **Lab Sample ID:** WU0318-004

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	3.12	U		P	2	10	3.12

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-04-0204

Matrix: WATER **SDG Name:** CTO297-4

Percent Solids: 0.00 **Lab Sample ID:** WU0318-006

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	3.12	U		P	2	10	3.12

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-05-0204

Matrix: WATER **SDG Name:** CTO297-4

Percent Solids: 0.00 **Lab Sample ID:** WU0334-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1.56	U		P	1	5.0	1.56

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-06-0204

Matrix: WATER **SDG Name:** CTO297-4

Percent Solids: 0.00 **Lab Sample ID:** WU0334-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, TOTAL	2.13	U		P	1	8.0	2.13
7440-43-9	CADMIUM, TOTAL	0.25	U		P	1	10	0.25
7440-47-3	CHROMIUM, TOTAL	0.88	U		P	1	15	0.88
7439-92-1	LEAD, TOTAL	1.56	U		P	1	5.0	1.56

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-07-0204

Matrix: WATER **SDG Name:** CTO297-4

Percent Solids: 0.00 **Lab Sample ID:** WU0346-005

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, TOTAL	6.9	B		P	1	8.0	2.13
7440-43-9	CADMIUM, TOTAL	0.25	U		P	1	10	0.25
7440-47-3	CHROMIUM, TOTAL	0.88	U		P	1	15	0.88
7439-92-1	LEAD, TOTAL	3.12	U		P	2	10	3.12

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-08-0204

Matrix: WATER **SDG Name:** CTO297-4

Percent Solids: 0.00 **Lab Sample ID:** WU0346-010

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1.56	U		P	1	5.0	1.56

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-09-0204

Matrix: WATER **SDG Name:** CTO297-4

Percent Solids: 0.00 **Lab Sample ID:** WU0346-008

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	3.12	U		P	2	10	3.12

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-10-0204

Matrix: WATER **SDG Name:** CTO297-4

Percent Solids: 0.00 **Lab Sample ID:** WU0346-007

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1.56	U		P	1	5.0	1.56

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-11-0204

Matrix: WATER **SDG Name:** CTO297-4

Percent Solids: 0.00 **Lab Sample ID:** WU0346-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, TOTAL	5.8	B		P	1	8.0	2.13
7440-43-9	CADMIUM, TOTAL	0.25	U		P	1	10	0.25
7440-47-3	CHROMIUM, TOTAL	0.88	U		P	1	15	0.88
7439-92-1	LEAD, TOTAL	1.56	U		P	1	5.0	1.56

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-12-0204

Matrix: WATER **SDG Name:** CTO297-4

Percent Solids: 0.00 **Lab Sample ID:** WU0346-009

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1.56	U		P	1	5.0	1.56

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** KW-DUP-02-0204

Matrix: WATER **SDG Name:** CTO297-4

Percent Solids: 0.00 **Lab Sample ID:** WU0346-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, TOTAL	5.4	B		P	1	8.0	2.13
7440-43-9	CADMIUM, TOTAL	0.25	U		P	1	10	0.25
7440-47-3	CHROMIUM, TOTAL	0.88	U		P	1	15	0.88
7439-92-1	LEAD, TOTAL	1.56	U		P	1	5.0	1.56

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0318-3
Report Date: 01-MAR-04
Client PO: MSA-0402-N4113-05 N5079
Project: CTO297 NAS KEY WEST
SDG: CTO297-4

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-01-0204	AQ	04-FEB-04	05-FEB-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	J0.0040 mg/L	.05	EPA 353.2	WG5880	06-FEB-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	2000 mg/L	75	EPA 375.4	WG6223	24-FEB-04	KGT	N/A	N/A	N/A	

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0318-2
Report Date: 01-MAR-04
Client PO: MSA-0402-N4113-05 N5079
Project: CTO297 NAS KEY WEST
SDG: CTO297-4

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-01A-0204	AQ	04-FEB-04	05-FEB-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG5880	06-FEB-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	2300 mg/L	75	EPA 375.4	WG6223	24-FEB-04	KGT	N/A	N/A	N/A	

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0318-5
Report Date: 01-MAR-04
Client PO: MSA-0402-N4113-05 N5079
Project: CTO297 NAS KEY WEST
SDG: CTO297-4

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-02-0204	AQ	04-FEB-04	05-FEB-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG5880	06-FEB-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	2200 mg/L	75	EPA 375.4	WG6223	24-FEB-04	KGT	N/A	N/A	N/A	

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0318-4
Report Date: 01-MAR-04
Client PO: MSA-0402-N4113-05 N5079
Project: CTO297 NAS KEY WEST
SDG: CTO297-4

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-03-0204	AQ	04-FEB-04	05-FEB-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG5880	06-FEB-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	1200 mg/L	50	EPA 375.4	WG6223	24-FEB-04	KGT	N/A	N/A	N/A	

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0318-6
Report Date: 01-MAR-04
Client PO: MSA-0402-N4113-05 N5079
Project: CTO297 NAS KEY WEST
SDG: CTO297-4

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-04-0204	AQ	04-FEB-04	05-FEB-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	J0.044 mg/L	.05	EPA 353.2	WG5880	06-FEB-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	1400 mg/L	50	EPA 375.4	WG6223	24-FEB-04	KGT	N/A	N/A	N/A	

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0334-2
Report Date: 01-MAR-04
Client PO: MSA-0402-N4113-05 N5079
Project: CTO 297 NAS KEY WEST
SDG: CTO297-4

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-05-0204	AQ	05-FEB-04	06-FEB-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG5880	06-FEB-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	460 mg/L	20	EPA 375.4	WG6223	24-FEB-04	KGT	N/A	N/A	N/A	

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0334-1
Report Date: 01-MAR-04
Client PO: MSA-0402-N4113-05 N5079
Project: CTO 297 NAS KEY WEST
SDG: CTO297-4

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-06-0204	AQ	05-FEB-04	06-FEB-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG5880	06-FEB-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	130 mg/L	10	EPA 375.4	WG6223	24-FEB-04	KGT	N/A	N/A	N/A	

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0346-5
Report Date: 01-MAR-04
Client PO: MSA-0402-N4113-05 N5079
Project: CTO297 NAS KEYWEST
SDG: CTO297-4

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-07-0204	AQ	06-FEB-04	07-FEB-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG6075	07-FEB-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	2000 mg/L	75	EPA 375.4	WG6223	24-FEB-04	KGT	N/A	N/A	N/A	

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
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Pittsburgh,PA 15220

Lab Sample ID: WU0346-10
Report Date: 01-MAR-04
Client PO: MSA-0402-N4113-05 N5079
Project: CTO297 NAS KEYWEST
SDG: CTO297-4

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-08-0204	AQ	06-FEB-04	07-FEB-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	J0.0082 mg/L	.05	EPA 353.2	WG6075	07-FEB-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	U1.0 mg/L	1	EPA 375.4	WG6223	24-FEB-04	KGT	N/A	N/A	N/A	

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Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0346-8
Report Date: 01-MAR-04
Client PO: MSA-0402-N4113-05 N5079
Project: CTO297 NAS KEYWEST
SDG: CTO297-4

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-09-0204	AQ	06-FEB-04	07-FEB-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	J0.011 mg/L	.05	EPA 353.2	WG6075	07-FEB-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	1300 mg/L	50	EPA 375.4	WG6223	24-FEB-04	KGT	N/A	N/A	N/A	

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Client: Amy Thomson
Tetra Tech NUS, Inc.
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Lab Sample ID: WU0346-7
Report Date: 01-MAR-04
Client PO: MSA-0402-N4113-05 N5079
Project: CTO297 NAS KEYWEST
SDG: CTO297-4

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-10-0204	AQ	06-FEB-04	07-FEB-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG6075	07-FEB-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	500 mg/L	20	EPA 375.4	WG6223	24-FEB-04	KGT	N/A	N/A	N/A	

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Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
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Lab Sample ID: WU0346-1
Report Date: 01-MAR-04
Client PO: MSA-0402-N4113-05 N5079
Project: CTO297 NAS KEYWEST
SDG: CTO297-4

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-11-0204	AQ	06-FEB-04	07-FEB-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	U0.10 mg/L	.1	EPA 353.2	WG6075	07-FEB-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	160 mg/L	10	EPA 375.4	WG6223	24-FEB-04	KGT	N/A	N/A	N/A	

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Client: Amy Thomson
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Lab Sample ID: WU0346-9
Report Date: 01-MAR-04
Client PO: MSA-0402-N4113-05 N5079
Project: CTO297 NAS KEYWEST
SDG: CTO297-4

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-12-0204	AQ	06-FEB-04	07-FEB-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	J0.015 mg/L	.05	EPA 353.2	WG6075	07-FEB-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	150 mg/L	10	EPA 375.4	WG6223	24-FEB-04	KGT	N/A	N/A	N/A	

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Client: Amy Thomson
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Lab Sample ID: WU0346-3
Report Date: 01-MAR-04
Client PO: MSA-0402-N4113-05 N5079
Project: CTO297 NAS KEYWEST
SDG: CTO297-4

Sample Description	Matrix	Date Sampled	Date Received
KW-DUP-02-0204	AQ	06-FEB-04	07-FEB-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	U0.10 mg/L	.1	EPA 353.2	WG6075	07-FEB-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	140 mg/L	10	EPA 375.4	WG6223	24-FEB-04	KGT	N/A	N/A	N/A	

APPENDIX C

SUPPORT DOCUMENTATION

HOLDTIME

SDG 2974

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	G01-MW-10-0204	WU0346-007	NM	02/06/2004	02/18/2004	02/24/2004	12	6	18
M	UG/L	G01-MW-01-0204	WU0318-003	NM	02/04/2004	02/18/2004	02/25/2004	14	7	21
M	UG/L	G01-MW-01A-0204	WU0318-002	NM	02/04/2004	02/18/2004	02/25/2004	14	7	21
M	UG/L	G01-MW-02-0204	WU0318-005	NM	02/04/2004	02/18/2004	02/25/2004	14	7	21
M	UG/L	G01-MW-03-0204	WU0318-004	NM	02/04/2004	02/18/2004	02/25/2004	14	7	21
M	UG/L	G01-MW-04-0204	WU0318-006	NM	02/04/2004	02/18/2004	02/25/2004	14	7	21
M	UG/L	G01-MW-05-0204	WU0334-002	NM	02/05/2004	02/18/2004	02/24/2004	13	6	19
M	UG/L	G01-MW-06-0204	WU0334-001	NM	02/05/2004	02/18/2004	02/24/2004	13	6	19
M	UG/L	G01-MW-07-0204	WU0346-005	NM	02/06/2004	02/18/2004	02/24/2004	12	6	18
M	UG/L	G01-MW-07-0204	WU0346-005	NM	02/06/2004	02/18/2004	02/25/2004	12	7	19
M	UG/L	G01-MW-09-0204	WU0346-008	NM	02/06/2004	02/18/2004	02/25/2004	12	7	19
M	UG/L	G01-MW-11-0204	WU0346-001	NM	02/06/2004	02/18/2004	02/24/2004	12	6	18
M	UG/L	G01-MW-12-0204	WU0346-009	NM	02/06/2004	02/18/2004	02/24/2004	12	6	18
M	UG/L	KW-DUP-02-0204	WU0346-003	NM	02/06/2004	02/18/2004	02/24/2004	12	6	18
M	UG/L	G01-MW-08-0204	WU0346-010	NM	02/06/2004	02/18/2004	02/24/2004	12	6	18

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
NTA	MG/L	G01-MW-07-0204	WU0346-5	NM	02/06/2004	02/07/2004	02/07/2004	1	0	1
NTA	MG/L	G01-MW-12-0204	WU0346-9	NM	02/06/2004	02/07/2004	02/07/2004	1	0	1
NTA	MG/L	KW-DUP-02-0204	WU0346-3	NM	02/06/2004	02/07/2004	02/07/2004	1	0	1
NTA	MG/L	G01-MW-11-0204	WU0346-1	NM	02/06/2004	02/07/2004	02/07/2004	1	0	1
NTA	MG/L	G01-MW-10-0204	WU0346-7	NM	02/06/2004	02/07/2004	02/07/2004	1	0	1
NTA	MG/L	G01-MW-08-0204	WU0346-10	NM	02/06/2004	02/07/2004	02/07/2004	1	0	1
NTA	MG/L	G01-MW-06-0204	WU0334-1	NM	02/05/2004	02/06/2004	02/06/2004	1	0	1
NTA	MG/L	G01-MW-05-0204	WU0334-2	NM	02/05/2004	02/06/2004	02/06/2004	1	0	1
NTA	MG/L	G01-MW-04-0204	WU0318-6	NM	02/04/2004	02/06/2004	02/06/2004	2	0	2
NTA	MG/L	G01-MW-03-0204	WU0318-4	NM	02/04/2004	02/06/2004	02/06/2004	2	0	2
NTA	MG/L	G01-MW-02-0204	WU0318-5	NM	02/04/2004	02/06/2004	02/06/2004	2	0	2
NTA	MG/L	G01-MW-01A-0204	WU0318-2	NM	02/04/2004	02/06/2004	02/06/2004	2	0	2
NTA	MG/L	G01-MW-01-0204	WU0318-3	NM	02/04/2004	02/06/2004	02/06/2004	2	0	2
NTA	MG/L	G01-MW-09-0204	WU0346-8	NM	02/06/2004	02/07/2004	02/07/2004	1	0	1
SO4	MG/L	G01-MW-08-0204	WU0346-10	NM	02/06/2004	02/24/2004	02/24/2004	18	0	18
SO4	MG/L	KW-DUP-02-0204	WU0346-3	NM	02/06/2004	02/24/2004	02/24/2004	18	0	18
SO4	MG/L	G01-MW-12-0204	WU0346-9	NM	02/06/2004	02/24/2004	02/24/2004	18	0	18
SO4	MG/L	G01-MW-11-0204	WU0346-1	NM	02/06/2004	02/24/2004	02/24/2004	18	0	18

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SO4	MG/L	G01-MW-09-0204	WU0346-8	NM	02/06/2004	02/24/2004	02/24/2004	18	0	18
SO4	MG/L	G01-MW-07-0204	WU0346-5	NM	02/06/2004	02/24/2004	02/24/2004	18	0	18
SO4	MG/L	G01-MW-06-0204	WU0334-1	NM	02/05/2004	02/24/2004	02/24/2004	19	0	19
SO4	MG/L	G01-MW-02-0204	WU0318-5	NM	02/04/2004	02/24/2004	02/24/2004	20	0	20
SO4	MG/L	G01-MW-10-0204	WU0346-7	NM	02/06/2004	02/24/2004	02/24/2004	18	0	18
SO4	MG/L	G01-MW-01-0204	WU0318-3	NM	02/04/2004	02/24/2004	02/24/2004	20	0	20
SO4	MG/L	G01-MW-04-0204	WU0318-6	NM	02/04/2004	02/24/2004	02/24/2004	20	0	20
SO4	MG/L	G01-MW-03-0204	WU0318-4	NM	02/04/2004	02/24/2004	02/24/2004	20	0	20
SO4	MG/L	G01-MW-05-0204	WU0334-2	NM	02/05/2004	02/24/2004	02/24/2004	19	0	19
SO4	MG/L	G01-MW-01A-0204	WU0318-2	NM	02/04/2004	02/24/2004	02/24/2004	20	0	20
OS	%	G01-MW-04-0204	WU0318-6	NM	02/04/2004	02/06/2004	03/02/2004	2	25	27
OS	%	G01-MW-03-0204	WU0318-4	NM	02/04/2004	02/06/2004	03/02/2004	2	25	27
OS	%	G01-MW-06-0204	WU0334-1	NM	02/05/2004	02/09/2004	03/03/2004	4	23	27
OS	%	G01-MW-05-0204	WU0334-2	NM	02/05/2004	02/09/2004	03/03/2004	4	23	27
OS	%	G01-MW-02-0204	WU0318-5	NM	02/04/2004	02/06/2004	03/02/2004	2	25	27
OS	%	G01-MW-08-0204DL2	WU0346-10DL2	NM	02/06/2004	02/13/2004	03/05/2004	7	21	28
OS	%	G01-MW-11-0204DL2	WU0346-1DL2	NM	02/06/2004	02/13/2004	03/06/2004	7	22	29
OS	%	G01-MW-01-0204RA	WU0318-3RA	NM	02/04/2004	02/06/2004	03/03/2004	2	26	28

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	%	G01-MW-11-0204	WU0346-2	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	%	G01-MW-06-0204RA	WU0334-6RA	NM	02/05/2004	02/09/2004	03/11/2004	4	31	35
OS	%	G01-MW-07-0204	WU0346-6	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	%	B01-MW-03-0204	WU0334-5	NM	02/05/2004	02/09/2004	03/03/2004	4	23	27
OS	%	B01-MW-01-0204	WU0334-4	NM	02/05/2004	02/09/2004	03/03/2004	4	23	27
OS	%	G01-MW-09-0204DL2	WU0346-8DL2	NM	02/06/2004	02/13/2004	03/05/2004	7	21	28
OS	%	G01-MW-11-0204RA	WU0346-2RA	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	%	G01-MW-12-0204DL2	WU0346-9DL2	NM	02/06/2004	02/13/2004	03/05/2004	7	21	28
OS	%	KW-DUP-02-0204	WU0346-4	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	%	KW-DUP-02-0204RA	WU0346-4RA	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	%	G01-MW-10-0204DL2	WU0346-7DL2	NM	02/06/2004	02/13/2004	03/05/2004	7	21	28
OS	%	G01-MW-07-0204RA	WU0346-6RA	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	%	G01-MW-01A-0204	WU0318-2	NM	02/04/2004	02/06/2004	03/02/2004	2	25	27
OS	UG/L	G01-MW-09-0204DL2	WU0346-8DL2	NM	02/06/2004	02/13/2004	03/05/2004	7	21	28
OS	UG/L	B01-MW-03-0204	WU0334-5	NM	02/05/2004	02/09/2004	03/03/2004	4	23	27
OS	UG/L	G01-MW-01-0204RA	WU0318-3RA	NM	02/04/2004	02/06/2004	03/03/2004	2	26	28
OS	UG/L	G01-MW-02-0204	WU0318-5	NM	02/04/2004	02/06/2004	03/02/2004	2	25	27
OS	UG/L	G01-MW-04-0204	WU0318-6	NM	02/04/2004	02/06/2004	03/02/2004	2	25	27

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	UG/L	G01-MW-05-0204	WU0334-2	NM	02/05/2004	02/09/2004	03/03/2004	4	23	27
OS	UG/L	G01-MW-06-0204	WU0334-1	NM	02/05/2004	02/09/2004	03/03/2004	4	23	27
OS	UG/L	G01-MW-06-0204RA	WU0334-6RA	NM	02/05/2004	02/09/2004	03/11/2004	4	31	35
OS	UG/L	G01-MW-07-0204	WU0346-6	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	UG/L	B01-MW-01-0204	WU0334-4	NM	02/05/2004	02/09/2004	03/03/2004	4	23	27
OS	UG/L	G01-MW-08-0204DL2	WU0346-10DL2	NM	02/06/2004	02/13/2004	03/05/2004	7	21	28
OS	UG/L	G01-MW-01A-0204	WU0318-2	NM	02/04/2004	02/06/2004	03/02/2004	2	25	27
OS	UG/L	G01-MW-10-0204DL2	WU0346-7DL2	NM	02/06/2004	02/13/2004	03/05/2004	7	21	28
OS	UG/L	G01-MW-11-0204	WU0346-2	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	UG/L	G01-MW-11-0204DL2	WU0346-1DL2	NM	02/06/2004	02/13/2004	03/06/2004	7	22	29
OS	UG/L	G01-MW-11-0204RA	WU0346-2RA	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	UG/L	G01-MW-12-0204DL2	WU0346-9DL2	NM	02/06/2004	02/13/2004	03/05/2004	7	21	28
OS	UG/L	KW-DUP-02-0204	WU0346-4	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	UG/L	KW-DUP-02-0204RA	WU0346-4RA	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	UG/L	G01-MW-07-0204RA	WU0346-6RA	NM	02/06/2004	02/13/2004	03/11/2004	7	27	34
OS	UG/L	G01-MW-03-0204	WU0318-4	NM	02/04/2004	02/06/2004	03/02/2004	2	25	27
EDB	%	G01-MW-03-0204	WU0318-4RE	NM	02/04/2004	02/17/2004	02/17/2004	13	0	13
EDB	%	G01-MW-01-0204	WU0318-3RE	NM	02/04/2004	02/17/2004	02/17/2004	13	0	13

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
EDB	%	G01-MW-02-0204	WU0318-5RE	NM	02/04/2004	02/17/2004	02/17/2004	13	0	13
EDB	%	G01-MW-04-0204	WU0318-6RE	NM	02/04/2004	02/17/2004	02/17/2004	13	0	13
EDB	%	G01-MW-05-0204	WU0334-2RE	NM	02/05/2004	02/17/2004	02/17/2004	12	0	12
EDB	%	G01-MW-06-0204	WU0334-1	NM	02/05/2004	02/11/2004	02/12/2004	6	1	7
EDB	%	G01-MW-06-0204	WU0334-1RE2	NM	02/05/2004	02/19/2004	02/19/2004	14	0	14
EDB	%	G01-MW-07-0204	WU0346-5RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	%	G01-MW-09-0204	WU0346-8	NM	02/06/2004	02/11/2004	02/12/2004	5	1	6
EDB	%	G01-MW-09-0204	WU0346-8RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	%	G01-MW-10-0204	WU0346-7RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	%	G01-MW-11-0204	WU0346-1RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	%	G01-MW-12-0204	WU0346-9RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	%	KW-DUP-02-0204	WU0346-3RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	%	G01-MW-08-0204	WU0346-10RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	%	G01-MW-01A-0204	WU0318-2RE	NM	02/04/2004	02/17/2004	02/17/2004	13	0	13
EDB	UG/L	G01-MW-12-0204	WU0346-9RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	UG/L	G01-MW-04-0204	WU0318-6RE	NM	02/04/2004	02/17/2004	02/17/2004	13	0	13
EDB	UG/L	G01-MW-05-0204	WU0334-2RE	NM	02/05/2004	02/17/2004	02/17/2004	12	0	12
EDB	UG/L	G01-MW-06-0204	WU0334-1	NM	02/05/2004	02/11/2004	02/12/2004	6	1	7

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
EDB	UG/L	G01-MW-06-0204	WU0334-1RE2	NM	02/05/2004	02/19/2004	02/19/2004	14	0	14
EDB	UG/L	G01-MW-07-0204	WU0346-5RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	UG/L	G01-MW-08-0204	WU0346-10RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	UG/L	G01-MW-09-0204	WU0346-8	NM	02/06/2004	02/11/2004	02/12/2004	5	1	6
EDB	UG/L	G01-MW-09-0204	WU0346-8RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	UG/L	G01-MW-01A-0204	WU0318-2RE	NM	02/04/2004	02/17/2004	02/17/2004	13	0	13
EDB	UG/L	KW-DUP-02-0204	WU0346-3RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	UG/L	G01-MW-03-0204	WU0318-4RE	NM	02/04/2004	02/17/2004	02/17/2004	13	0	13
EDB	UG/L	G01-MW-11-0204	WU0346-1RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	UG/L	G01-MW-10-0204	WU0346-7RE	NM	02/06/2004	02/17/2004	02/17/2004	11	0	11
EDB	UG/L	G01-MW-01-0204	WU0318-3RE	NM	02/04/2004	02/17/2004	02/17/2004	13	0	13
EDB	UG/L	G01-MW-02-0204	WU0318-5RE	NM	02/04/2004	02/17/2004	02/17/2004	13	0	13
OV	%	KW-DUP-02-0204	WU0347-2	NM	02/06/2004	02/13/2004	02/13/2004	7	0	7
OV	%	G01-MW-01-0204	WU0318-3	NM	02/04/2004	02/12/2004	02/12/2004	8	0	8
OV	%	G01-MW-01A-0204	WU0318-2	NM	02/04/2004	02/12/2004	02/12/2004	8	0	8
OV	%	G01-MW-02-0204	WU0318-5	NM	02/04/2004	02/12/2004	02/12/2004	8	0	8
OV	%	KWTB-020404	WU0318-1	NM	01/26/2004	02/12/2004	02/12/2004	17	0	17
OV	%	TB-020504	WU0334-3	NM	01/26/2004	02/10/2004	02/10/2004	15	0	15

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	G01-MW-12-0204	WU0346-9	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
OV	%	G01-MW-11-0204	WU0347-1	NM	02/06/2004	02/13/2004	02/13/2004	7	0	7
OV	%	G01-MW-10-0204	WU0346-7	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
OV	%	G01-MW-09-0204	WU0346-8	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
OV	%	G01-MW-08-0204	WU0346-10	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
OV	%	G01-MW-03-0204	WU0318-4	NM	02/04/2004	02/12/2004	02/12/2004	8	0	8
OV	%	G01-MW-07-0204	WU0347-3	NM	02/06/2004	02/13/2004	02/13/2004	7	0	7
OV	%	G01-MW-06-0204	WU0344-1	NM	02/05/2004	02/11/2004	02/11/2004	6	0	6
OV	%	G01-MW-05-0204	WU0334-2	NM	02/05/2004	02/10/2004	02/10/2004	5	0	5
OV	%	G01-MW-04-0204	WU0318-6	NM	02/04/2004	02/12/2004	02/12/2004	8	0	8
OV	%	KWTB-020604	WU0346-11	NM	01/26/2004	02/11/2004	02/11/2004	16	0	16
OV	UG/L	G01-MW-07-0204	WU0347-3	NM	02/06/2004	02/13/2004	02/13/2004	7	0	7
OV	UG/L	G01-MW-11-0204	WU0347-1	NM	02/06/2004	02/13/2004	02/13/2004	7	0	7
OV	UG/L	G01-MW-10-0204	WU0346-7	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
OV	UG/L	G01-MW-09-0204	WU0346-8	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
OV	UG/L	G01-MW-08-0204	WU0346-10	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
OV	UG/L	G01-MW-06-0204	WU0344-1	NM	02/05/2004	02/11/2004	02/11/2004	6	0	6
OV	UG/L	G01-MW-05-0204	WU0334-2	NM	02/05/2004	02/10/2004	02/10/2004	5	0	5

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	UG/L	G01-MW-04-0204	WU0318-6	NM	02/04/2004	02/12/2004	02/12/2004	8	0	8
OV	UG/L	G01-MW-03-0204	WU0318-4	NM	02/04/2004	02/12/2004	02/12/2004	8	0	8
OV	UG/L	G01-MW-02-0204	WU0318-5	NM	02/04/2004	02/12/2004	02/12/2004	8	0	8
OV	UG/L	G01-MW-12-0204	WU0346-9	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
OV	UG/L	G01-MW-01-0204	WU0318-3	NM	02/04/2004	02/12/2004	02/12/2004	8	0	8
OV	UG/L	TB-020504	WU0334-3	NM	01/26/2004	02/10/2004	02/10/2004	15	0	15
OV	UG/L	G01-MW-01A-0204	WU0318-2	NM	02/04/2004	02/12/2004	02/12/2004	8	0	8
OV	UG/L	KWTB-020404	WU0318-1	NM	01/26/2004	02/12/2004	02/12/2004	17	0	17
OV	UG/L	KWTB-020604	WU0346-11	NM	01/26/2004	02/11/2004	02/11/2004	16	0	16
OV	UG/L	KW-DUP-02-0204	WU0347-2	NM	02/06/2004	02/13/2004	02/13/2004	7	0	7
ETHA	UG/L	G01-MW-12-0204	0402145-06A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHA	UG/L	KW-DUP-02-0204	0402145-02A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHA	UG/L	G01-MW-11-0204	0402145-01A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHA	UG/L	G01-MW-05-0204	0402144-02A	NM	02/05/2004	02/11/2004	02/11/2004	6	0	6
ETHA	UG/L	G01-MW-06-0204	0402144-01A	NM	02/05/2004	02/11/2004	02/11/2004	6	0	6
ETHA	UG/L	G01-MW-08-0204	0402145-07A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHA	UG/L	G01-MW-09-0204	0402145-05A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHA	UG/L	G01-MW-10-0204	0402145-04A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
ETHA	UG/L	G01-MW-07-0204	0402145-03A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHA	UG/ML	G01-MW-01A-0204	0402100-01A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
ETHA	UG/ML	G01-MW-04-0204	0402100-05A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
ETHA	UG/ML	G01-MW-02-0204	0402100-04A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
ETHA	UG/ML	G01-MW-01-0204	0402100-02A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
ETHA	UG/ML	G01-MW-03-0204	0402100-03A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
ETHE	UG/L	G01-MW-11-0204	0402145-01A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHE	UG/L	G01-MW-10-0204	0402145-04A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHE	UG/L	G01-MW-12-0204	0402145-06A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHE	UG/L	KW-DUP-02-0204	0402145-02A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHE	UG/L	G01-MW-05-0204	0402144-02A	NM	02/05/2004	02/11/2004	02/11/2004	6	0	6
ETHE	UG/L	G01-MW-06-0204	0402144-01A	NM	02/05/2004	02/11/2004	02/11/2004	6	0	6
ETHE	UG/L	G01-MW-07-0204	0402145-03A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHE	UG/L	G01-MW-08-0204	0402145-07A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHE	UG/L	G01-MW-09-0204	0402145-05A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
ETHE	UG/ML	G01-MW-01A-0204	0402100-01A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
ETHE	UG/ML	G01-MW-04-0204	0402100-05A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
ETHE	UG/ML	G01-MW-02-0204	0402100-04A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
ETHE	UG/ML	G01-MW-01-0204	0402100-02A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
ETHE	UG/ML	G01-MW-03-0204	0402100-03A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
METH	UG/L	G01-MW-09-0204	0402145-05A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
METH	UG/L	G01-MW-08-0204	0402145-07A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
METH	UG/L	G01-MW-07-0204	0402145-03A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
METH	UG/L	G01-MW-06-0204	0402144-01A	NM	02/05/2004	02/11/2004	02/11/2004	6	0	6
METH	UG/L	G01-MW-05-0204	0402144-02A	NM	02/05/2004	02/11/2004	02/11/2004	6	0	6
METH	UG/L	G01-MW-11-0204	0402145-01A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
METH	UG/L	G01-MW-12-0204	0402145-06A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
METH	UG/L	G01-MW-10-0204	0402145-04A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
METH	UG/L	KW-DUP-02-0204	0402145-02A	NM	02/06/2004	02/11/2004	02/11/2004	5	0	5
METH	UG/ML	G01-MW-04-0204	0402100-05A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
METH	UG/ML	G01-MW-01-0204	0402100-02A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
METH	UG/ML	G01-MW-01A-0204	0402100-01A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
METH	UG/ML	G01-MW-03-0204	0402100-03A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
METH	UG/ML	G01-MW-02-0204	0402100-04A	NM	02/04/2004	02/10/2004	02/10/2004	6	0	6
TPH	%	G01-MW-12-0204	WU0346-9	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	%	G01-MW-06-0204	WU0334-1	NM	02/05/2004	02/06/2004	02/26/2004	1	20	21

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TPH	%	KW-DUP-02-0204	WU0346-3	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	%	G01-MW-11-0204	WU0346-1	NM	02/06/2004	02/11/2004	02/26/2004	5	15	20
TPH	%	G01-MW-10-0204	WU0346-7	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	%	G01-MW-09-0204	WU0346-8	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	%	G01-MW-07-0204	WU0346-5	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	%	G01-MW-05-0204	WU0334-2	NM	02/05/2004	02/06/2004	02/26/2004	1	20	21
TPH	%	G01-MW-04-0204	WU0318-6	NM	02/04/2004	02/06/2004	02/26/2004	2	20	22
TPH	%	G01-MW-03-0204	WU0318-4	NM	02/04/2004	02/06/2004	02/26/2004	2	20	22
TPH	%	G01-MW-02-0204	WU0318-5	NM	02/04/2004	02/06/2004	02/26/2004	2	20	22
TPH	%	G01-MW-01A-0204	WU0318-2	NM	02/04/2004	02/06/2004	02/26/2004	2	20	22
TPH	%	G01-MW-01-0204	WU0318-3	NM	02/04/2004	02/06/2004	02/26/2004	2	20	22
TPH	%	G01-MW-08-0204	WU0346-10	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	UG/L	G01-MW-06-0204	WU0334-1	NM	02/05/2004	02/06/2004	02/26/2004	1	20	21
TPH	UG/L	G01-MW-01-0204	WU0318-3	NM	02/04/2004	02/06/2004	02/26/2004	2	20	22
TPH	UG/L	G01-MW-01A-0204	WU0318-2	NM	02/04/2004	02/06/2004	02/26/2004	2	20	22
TPH	UG/L	G01-MW-02-0204	WU0318-5	NM	02/04/2004	02/06/2004	02/26/2004	2	20	22
TPH	UG/L	G01-MW-03-0204	WU0318-4	NM	02/04/2004	02/06/2004	02/26/2004	2	20	22
TPH	UG/L	G01-MW-05-0204	WU0334-2	NM	02/05/2004	02/06/2004	02/26/2004	1	20	21

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TPH	UG/L	G01-MW-07-0204	WU0346-5	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	UG/L	G01-MW-08-0204	WU0346-10	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	UG/L	G01-MW-09-0204	WU0346-8	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	UG/L	G01-MW-10-0204	WU0346-7	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	UG/L	G01-MW-11-0204	WU0346-1	NM	02/06/2004	02/11/2004	02/26/2004	5	15	20
TPH	UG/L	G01-MW-12-0204	WU0346-9	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	UG/L	KW-DUP-02-0204	WU0346-3	NM	02/06/2004	02/11/2004	02/27/2004	5	16	21
TPH	UG/L	G01-MW-04-0204	WU0318-6	NM	02/04/2004	02/06/2004	02/26/2004	2	20	22

WW0318

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 3883 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 318	NAS Key West	Chuck Bryan	803-649-7963	Katahdin - Andrea Colby
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
Emily McRee, Ben Cole		Emily McRee	(786) 295-7331	340 County Rd. No. 5
		CARRIER/WAYBILL NUMBER		CITY, STATE
		834182781613		Westbrook, ME 04092

STANDARD TAT [X]
RUSH TAT [ ] ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: PPL VOHs + BTEX, MTBE	PAH (include 1-methylnaph & 2-methylnaph)	TRPH	EDB	Methane	Lead	Nitrate + Sulfate	COMMENTS
		CONTAINER TYPE PLASTIC (P) or GLASS (G)							G	G	G	G	G	P	P	
		PRESERVATIVE USED							HCl	—	HCl	HCl	HCl	HNO3	—	
1/26	0950	KWTB-020404				QC	G	2	2							
2/4	1015	G01-MW-01A-0204	G01-MW-01A			GW	G	13	3	2	2	2	2	1	1	
2/4	1210	G01-MW-01-0204	G01-MW-01			GW	G	13	3	2	2	2	2	1	1	
2/4	1005	G01-MW-03-0204	G01-MW-03			GW	G	13	3	2	2	2	2	1	1	
2/4	1510	G01-MW-02-0204	G01-MW-02			GW	G	13	3	2	2	2	2	1	1	
2/4	1515	G01-MW-04-0204	G01-MW-04			GW	G	13	3	2	2	2	2	M	1	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Emily McRee	2/4/04	1700	1. RECEIVED BY:	2/5/04	0920
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

000021

WW0334 WW0344

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 3884 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 318	NAS Key West	Chuck Bryan	803-649-7963x345	Katahdin - Andrea Colby
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
Emily McRee		Emily McRee	786-295-7331	340 County Rd. No.5
		CARRIER/WAYBILL NUMBER		CITY, STATE
		834182781624		Westbrook, ME 04092

STANDARD TAT [X]
RUSH TAT [ ] ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2004	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: PPL VOHs + BTEX MTBE	PAH + 1-,2-methyl-naphthalene	TRPH	EDB	Nitrate + Sulfate	Methane	Lead	Arsenic, Cad., Chrom., Lead	COMMENTS
									CONTAINER TYPE PLASTIC (P) or GLASS (G)	G	G	G	G	P	G	P	P
									PRESERVATIVE USED	HCl	/	HCl	HCl	/	HCl	HNO_3	HNO_3
2/5	1000	G01-MW-06-0204	G01-MW-06	—		GW	G	13	3	2	2	2	1	2		1	Rinsed HCl in VOA vials (this sample only)
1/26	0950	TB-020504		—		QC	G	2	2								
2/5	0930	G01-MW-05-0204	G01-MW-05	—		GW	G	13	3	2	2	2	1	2	1		
2/5	1450	B01-MW-01-0204	B01-MW-01	—		GW	6	2		2							
2/5	1355	B01-MW-03-0204	B01-MW-03	—		GW	6	6		6							MS/MSD

1. RELINQUISHED BY	Emily McRee	DATE	4/5/04	TIME	1600	1. RECEIVED BY	DATE 4-6-04 TIME 1035
2. RELINQUISHED BY		DATE		TIME		2. RECEIVED BY	DATE TIME
3. RELINQUISHED BY		DATE		TIME		3. RECEIVED BY	DATE TIME

COMMENTS: Note: Sample G01-MW-06-0204 contains a small amount of product!! Please report 8260 + 8270 TICs for this sample only.

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FORM NO. TtNUS-001

000023

WW0346 Cooler: TT#1

TETRA TECH NUS, INC. CHAIN OF CUSTODY NUMBER 3831 PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
CTO 318	NAS Key West	Chuck Bryan	803-649-7963x344	Katahdin - Andrea Colby
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
Emily McRee		Emily McRee	786-295-7331	340 County Rd. No.5
		CARRIER/WAYBILL NUMBER		CITY, STATE
		834182781637 5		Westbrook, ME 04092

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2004)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)									COMMENTS
		TYPE OF ANALYSIS							G	G	G	G	G	P	P	P		
									PRESERVATIVE USED					HCl	HCl	HCl	—	HCl	—	HNO_3	HNO_3	
									VOLs + BTEX MTBE	EDB	Methane	PAH + 1-,2-methyl-naphthalene	TRPH				Nitrate + Sulfate	Arsenic, Cadmium, Chromium + Lead	Lead	
2/6	1000	G01-MN-110204	G01-MW-11	—		GW	G	13	3	2	2	2	2	1✓	1✓			Report Organic TICs
2/6	0000	KW-DUP-02-0204		—		GW	G	13	3	2	2	2	2	1✓	1✓			Report Organic TICs
2/6	1025	G01-MW-10-0204	G01-MW-10	—		GW	G	13	3	2	2	2	2	1✓			1✓	
2/6	1240	G01-MW-09-0204	G01-MW-09	—		GW	G	13	3	2	2	2	2	1✓			1✓	VOC vials not preserved
2/6	1330	G01-MW-12-0204	G01-MW-12	—		GW	G	13	3	2	2	2	2	1✓			1✓	
1/26	0950	KWTB-020604		—		QC	G	2	2									
2/6	1510	G01-MW-07-0204	G01-MW-07	—		GW	G	13	3	2	2	2	2	1✓	1✓			Report Organic TICs
2/6	1605	G01-MW-08-0204	G01-MW-08	—		GW	G	13	3	2	2	2	2	1✓			1✓	

1. RELINQUISHED BY Emily McRee	DATE 2/6/04	TIME 1745	1. RECEIVED BY Fed Ex	DATE	TIME
2. RELINQUISHED BY Fed Ex	DATE 02/07/04	TIME 10:15	2. RECEIVED BY G. Brewer	DATE 02/07/04	TIME 10:15
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

h20000

Katahdin
ANALYTICAL SERVICES

Cert. No. E87604

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NAS KEY WEST CTO 297
SDG: CTO297-4
TASK ORDER MANAGER: CHARLES BRYAN

Sample Receipt

The following samples were received on February 5, 6 and 7, 2004 were logged in under Katahdin Analytical Services work order numbers WU0318, WU0334, WU0344, WU0346 and WU0347 with a hardcopy due date of March 4, 2004.

KATAHDIN Sample No.	TTNUS Sample Identification
WU0318-1	KWTB-020404
WU0318-2	G01-MW-01A-0204
WU0318-3	G01-MW-01-0204
WU0318-4	G01-MW-03-0204
WU0318-5	G01-MW-02-0204
WU0318-6	G01-MW-04-0204
WU0334-1	G01-MW-06-0204
WU0334-2	G01-MW-05-0204
WU0334-3	TB-020504
WU0334-4	B01-MW-01-0204
WU0334-5	B01-MW-03-0204
WU0334-6	G01-MW-06-0204
WU0344-1	G01-MW-06-0204
WU0346-1	G01-MW-11-0204
WU0346-2	G01-MW-11-0204
WU0346-3	KW-DUP-02-0204
WU0346-4	KW-DUP-02-0204
WU0346-5	G01-MW-07-0204
WU0346-6	G01-MW-07-0204
WU0346-7	G01-MW-10-0204
WU0346-8	G01-MW-09-0204
WU0346-9	G01-MW-12-0204
WU0346-10	G01-MW-08-0204
WU0346-11	KWTB-020604
WU0347-1	G01-MW-11-0204
WU0347-2	KW-DUP-02-0204
WU0347-3	G01-MW-07-0204

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Organics Laboratory

The samples of SDG CTO297-4 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, Office of Solid Waste and Emergency Response, U.S. EPA and/or Method for Determination of Petroleum Range Organics (Method #FL-PRO), Florida Department of Environmental Protection, November 1, 1995, and/or "Methods for the Determination of Organic Compounds in Drinking Water", U.S. EPA, Environmental Monitoring and Support Laboratory - Cincinnati (September 1995), for the specific methods listed below or on the Report of Analysis. Some manual integrations may have been performed due to split peaks and/or corrected baselines. All have been flagged with a "M" (software-generated) on the pertinent quantitation report.

FL-PRO Analysis

Samples WU0318-6 and WU0334-1 and 2 had recoveries for the surrogate, o-terphenyl that were low and outside of the method acceptance limits. Since the recoveries for the second surrogate were acceptable, the samples were not reextracted.

8260 Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) and Matrix Spike Samples (MS and MSD's) are statistically derived. Katahdin standard operating procedure is to not take corrective action until greater than ten percent of the target analytes (with the exception of the common laboratory contaminants acetone and methylene chloride) in the LCS are outside of QC limits.

Some method blanks may have detected one or more target analytes above the MDL. Any of these analytes that were also detected in any of the associated samples were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

504 Analysis

Samples WU0334-1 and WU0346-8 were unpreserved samples. These samples were analyzed with other samples in an analytical sequence, which resulted in a loss of response of target analytes. The data for these two samples were reported since they were analyzed within hold time, and they were unpreserved. The remaining other samples were reextracted within hold time. Samples WU0334-1 and WU0346-8 were reextracted 7 and 4 days out of the unpreserved hold time, respectively but within the 14 day preserved hold time. Sample WU0346-8 and the laboratory method blank WG5985-1RA had low or high recoveries for the surrogate TCMX on both channels that are outside of laboratory established acceptance limits. The laboratory control samples WG5985-2 and 3 had a low spike recovery for the analyte EDB that is outside of method established limits on both channels. The closing calibration verification (CV)

standard (files 3UB1132 and 3UB2132) had low responses for TCMX and EDB on both channels, which resulted in %D's that were outside of the method acceptance limit of 30%. All samples were reextracted since these deviations are likely due to the instrument malfunction.

The closing CV (files 3UB1197 and 3UB2197) had high responses for the surrogate TCMX on both channels which resulted in %D's that was outside of the method acceptance limit of 30%. The sample results for the surrogate may be biased high.

The opening CV (file 3UB1222) had a high response for the surrogate TCMX on Channel A, which resulted in a %D that was outside of the method acceptance limit of 30%. The sample results for the surrogate may be biased high on channel A.

The laboratory method blank WG6134-1 and laboratory control samples WG6134-2 and 3 had high recoveries for the surrogate TCMX on both channels that are outside of laboratory established acceptance limits.

The laboratory control samples WG6134-2 and 3 have a high spike recovery for the analyte EDB that is outside of method nominal acceptance limits on both channels. Since a high recovery would indicate a high bias and the associated sample did not detect EDB, the sample was not reextracted.

8720C Analysis

The laboratory method blanks WG5942-1 and WG6031-1 had high recoveries for 2-fluorobiphenyl and/or 2,4,6-tribromophenol, which were outside the laboratory established acceptance limits. Since a high recovery would indicate a high bias and there were no target analytes detected above the MDL, the samples were not reanalyzed.

The LCSs WG5942-2 and WG6031-2 and the LCSDs WG5942-3 and WG6031-3 had high recoveries for the surrogates 2-fluorobiphenyl and/or 2,4,6-tribromophenol, which were outside the laboratory established acceptance limits. Since all of the spiked analytes were within the acceptance limits, the samples were not reanalyzed.

Samples WU0346-4 and 6 had high recoveries for the surrogate 2-fluorobiphenyl, which were outside the laboratory established acceptance limits. The samples were reanalyzed with similar results. The results of both analyses are reported

Samples WU0346-2 had a low recovery for the surrogate 2-fluorophenol, which was outside the laboratory established acceptance limits. The samples were reanalyzed with similar results. The results of both analyses are reported

The initial calibration analyzed on the X instrument had %RSD values for several analytes that exceeded the method acceptance limit of 15%. For these analytes, either a linear or quadratic model was used for quantitation instead of an average response factor. The target analyte bis(2-chloroethyl)ether failed for both the linear and quadratic models in the initial calibration curve due to the correlation coefficient being less than the method acceptance criteria of 0.990. This compound was calibrated using the average model. Since none of the associated samples detected this target analytes above the PQL, the sample was not reanalyzed.

The calibration verification standard (CV) (file X4718) had a high response for the calibration check compound (CCC) phenol, which resulted in a %D that was outside the method acceptance limit of 20%. Since a high response would indicate a high bias and the associated sample did not detect any analytes above the PQL, the sample was not reanalyzed.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. Katahdin standard operating procedure is not to take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory phthalate ester contaminants) in the LCS are outside of the QC limits.

8270C SIM Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The acceptance limits for the MS/MSD are for a short list of the spiked compounds. Katahdin standard operating procedure is not to take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory phthalate ester contaminants) in the LCS are outside of the QC limits.

The calibration verification standard (file X4606) had a high response for internal standard perylene-d12, which were high and resulted in a %D that was outside the method acceptance limits of -50% to +100% of the response of the mid-point standard level of the initial calibration. Since none of the associated samples detected any target analytes above the PQL that are quantitated against this internal standard, the samples were not reanalyzed.

Sample WU0334-1 had responses for the internal standards anthracene-d10, chrysene-d12 and perylene-d12, which were high and outside the method acceptance limits of –50% to +100% of the responses of the internal standards from the daily calibration verification standard. Also, the surrogate fluorene-d10 had a recovery that was low and outside of the laboratory established acceptance limits. This is likely due to matrix interference.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of Katahdin SDG CTO297-4 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Waste", SW-846, November 1986, Third Edition.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix Katahdin Sample Nos. WU0318-(2-6), WU0334-(1-2), and WU0346-(1,3,5,7-10) were digested for ICP analysis on 02/18/04 (QC Batch UB18ICW0) in accordance with USEPA Method 3010A.

ICP analyses of SDG CTO297-4 sample digestates were performed using a Thermo Jarrell Ash (TJA) 61E ICP spectrometer. All samples were analyzed within holding times and all analytical run QC criteria were met, with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question.

Matrix QC Summary

All of the recoveries for the matrix spike aliquots of Katahdin Sample No. WU0318-2 were within the laboratory's acceptance criteria (75% - 125% recovery of the added element, if the native concentration is less than four times the amount added) for lead.

The matrix spike duplicate precision analyses of Katahdin Sample No. WU0318-2 was within the laboratory's acceptance limit (<20% relative difference between duplicate matrix spiked aliquots) for lead.

The serial dilution analyses of Katahdin Sample No. WU0318-2 was within the laboratory's acceptance limit (<10% relative percent difference, if the concentration in the original sample is greater than 50 times the IDL) for lead.

Wet Chemistry Analysis

The samples of SDG CTO297-4 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for nitrate and sulfate were performed according to "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, 1979 Revised 1983, U.S. EPA.

All Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limits (MDL). Measured concentrations that fall between the MDL and Katahdin's Practical Quantitation Limit (PQL) are flagged "J". Measured concentrations that are below the MDL are flagged "U" and reported as "U PQL", where "PQL" is the numerical value of the Practical Quantitation Limit.

All analyses were performed within analytical hold times. All quality control criteria were met, with the following comments or exceptions:

The matrix spike recovery for sulfate (0%) in Katahdin Sample No. WU0346-1 is outside the laboratory's acceptance limits.

No other deviations were noted by the Wet Chemistry group.

Subcontracted Analysis

Analyses for Methane/Ethane/Ethene were performed by a subcontract laboratory. Please refer to the section of the data package titled Subcontracted Data.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager, Quality Assurance Officer, or the Data Management Supervisor as verified by the following signature.

María Crouch
03.12.04
María Crouch
Quality Assurance Officer

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Katahdin Analytical Services

SDG Name: CTO297-4 **SOW No.** SW846

Client Field ID	Lab Sample ID
G01-MW-01-0204	WU0318-003
G01-MW-01A-0204	WU0318-002
G01-MW-01A-0204	WU0318-002P
G01-MW-01A-0204	WU0318-002S
G01-MW-02-0204	WU0318-005
G01-MW-03-0204	WU0318-004
G01-MW-04-0204	WU0318-006
G01-MW-05-0204	WU0334-002
G01-MW-06-0204	WU0334-001
G01-MW-07-0204	WU0346-005
G01-MW-08-0204	WU0346-010
G01-MW-09-0204	WU0346-008
G01-MW-10-0204	WU0346-007
G01-MW-11-0204	WU0346-001
G01-MW-12-0204	WU0346-009
KW-DUP-02-0204	WU0346-003

Were ICP interelement corrections applied ?	Yes
Were ICP background corrections applied ?	Yes
If yes - were raw data generated before application of background corrections ?	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Molly Fabbricante Name: Molly Fabbricante

Date: 2-27-04 Title: Chemist

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Concentration Units: ug/L

SAMPLE: ICV

File: AUB19A Feb 19, 2004 9:50

Analyte	True	Found	%R (1)
ALUMINUM	20000.0	18180.39	90.9
ARSENIC	600.0	592.77	98.8
CADMIUM	1250.0	1216.73	97.3
CALCIUM	20000.0	19920.21	99.6
CHROMIUM	500.0	475.50	95.1
IRON	20000.0	19985.61	99.9
LEAD	550.0	549.20	99.9
MAGNESIUM	20000.0	20266.96	101.3

SAMPLE: CCV

File: AUB19A Feb 19, 2004 10:30

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	46938.09	93.9
ARSENIC	1000.0	982.28	98.2
CADMIUM	1000.0	991.77	99.2
CALCIUM	50000.0	49531.44	99.1
CHROMIUM	1000.0	971.62	97.2
IRON	20000.0	19436.86	97.2
LEAD	1000.0	978.84	97.9
MAGNESIUM	50000.0	49562.12	99.1

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Concentration Units: ug/L

SAMPLE: CCV

File: AUB19A Feb 19, 2004 11:52

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	47706.49	95.4
ARSENIC	1000.0	1008.41	100.8
CADMIUM	1000.0	1018.19	101.8
CALCIUM	50000.0	50686.22	101.4
CHROMIUM	1000.0	984.96	98.5
IRON	20000.0	19847.80	99.2
LEAD	1000.0	1006.35	100.6
MAGNESIUM	50000.0	50477.44	101.0

SAMPLE: CCV

File: AUB19A Feb 19, 2004 13:13

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	47693.92	95.4
ARSENIC	1000.0	1026.20	102.6
CADMIUM	1000.0	1031.26	103.1
CALCIUM	50000.0	51054.65	102.1
CHROMIUM	1000.0	987.35	98.7
IRON	20000.0	20020.81	100.1
LEAD	1000.0	1022.45	102.2
MAGNESIUM	50000.0	50638.10	101.3

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Concentration Units: ug/L

SAMPLE: ICV

File: AUB24A Feb 24, 2004 10:07

Analyte	True	Found	%R (1)
ALUMINUM	20000.0	19065.71	95.3
ARSENIC	600.0	607.69	101.3
CADMIUM	1250.0	1255.79	100.5
CALCIUM	20000.0	20642.00	103.2
CHROMIUM	500.0	494.40	98.9
IRON	20000.0	20722.29	103.6
LEAD	550.0	563.51	102.5
MAGNESIUM	20000.0	20933.44	104.7

SAMPLE: CCV

File: AUB24A Feb 24, 2004 10:47

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	49891.62	99.8
ARSENIC	1000.0	1014.81	101.5
CADMIUM	1000.0	1029.25	102.9
CALCIUM	50000.0	51773.49	103.5
CHROMIUM	1000.0	1017.52	101.8
IRON	20000.0	20269.11	101.3
LEAD	1000.0	1010.13	101.0
MAGNESIUM	50000.0	52198.59	104.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Concentration Units: ug/L

SAMPLE: CCV

File: AUB24A Feb 24, 2004 12:11

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	51499.00	103.0
ARSENIC	1000.0	1041.36	104.1
CADMIUM	1000.0	1062.03	106.2
CALCIUM	50000.0	53693.35	107.4
CHROMIUM	1000.0	1053.05	105.3
IRON	20000.0	20879.23	104.4
LEAD	1000.0	1033.48	103.3
MAGNESIUM	50000.0	53941.10	107.9

SAMPLE: CCV

File: AUB24A Feb 24, 2004 13:31

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	50352.81	100.7
ARSENIC	1000.0	992.37	99.2
CADMIUM	1000.0	1025.39	102.5
CALCIUM	50000.0	52080.42	104.2
CHROMIUM	1000.0	1022.90	102.3
IRON	20000.0	20179.96	100.9
LEAD	1000.0	997.16	99.7
MAGNESIUM	50000.0	52453.50	104.9

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Concentration Units: ug/L

SAMPLE: CCV

File: AUB24A Feb 24, 2004 14:51

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	50483.94	101.0
ARSENIC	1000.0	978.72	97.9
CADMIUM	1000.0	1028.56	102.9
CALCIUM	50000.0	51921.17	103.8
CHROMIUM	1000.0	1025.01	102.5
IRON	20000.0	20117.76	100.6
LEAD	1000.0	980.68	98.1
MAGNESIUM	50000.0	52322.81	104.6

SAMPLE: CCV

File: AUB24A Feb 24, 2004 16:17

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	50550.90	101.1
ARSENIC	1000.0	953.56	95.4
CADMIUM	1000.0	1034.57	103.5
CALCIUM	50000.0	52128.61	104.3
CHROMIUM	1000.0	1022.72	102.3
IRON	20000.0	20007.19	100.0
LEAD	1000.0	959.46	95.9
MAGNESIUM	50000.0	52274.28	104.5

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Concentration Units: ug/L

SAMPLE: CCV

File: AUB24A Feb 24, 2004 17:38

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	49510.81	99.0
ARSENIC	1000.0	931.09	93.1
CADMIUM	1000.0	1014.37	101.4
CALCIUM	50000.0	51166.16	102.3
CHROMIUM	1000.0	997.53	99.8
IRON	20000.0	19566.88	97.8
LEAD	1000.0	936.65	93.7
MAGNESIUM	50000.0	51227.32	102.5

SAMPLE: CCV

File: AUB24A Feb 24, 2004 18:45

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	47763.23	95.5
ARSENIC	1000.0	967.76	96.8
CADMIUM	1000.0	1006.55	100.7
CALCIUM	50000.0	50488.94	101.0
CHROMIUM	1000.0	973.03	97.3
IRON	20000.0	19274.77	96.4
LEAD	1000.0	941.21	94.1
MAGNESIUM	50000.0	50074.53	100.1

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Concentration Units: ug/L

SAMPLE: CCV

File: AUB24A Feb 24, 2004 19:18

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	49528.81	99.1
ARSENIC	1000.0	991.12	99.1
CADMIUM	1000.0	1058.48	105.8
CALCIUM	50000.0	52721.71	105.4
CHROMIUM	1000.0	1013.91	101.4
IRON	20000.0	20231.46	101.2
LEAD	1000.0	991.99	99.2
MAGNESIUM	50000.0	52144.96	104.3

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Concentration Units: ug/L

SAMPLE: ICV

File: AUB25A Feb 25, 2004 10:46

Analyte	True	Found	%R (1)
ALUMINUM	20000.0	18410.40	92.1
CALCIUM	20000.0	20016.84	100.1
IRON	20000.0	20143.76	100.7
LEAD	550.0	550.82	100.1
MAGNESIUM	20000.0	20308.35	101.5

SAMPLE: ICV

File: AUB25A Feb 25, 2004 10:54

Analyte	True	Found	%R (1)
ALUMINUM	20000.0	18655.13	93.3
CALCIUM	20000.0	20274.67	101.4
IRON	20000.0	20417.06	102.1
LEAD	550.0	557.74	101.4
MAGNESIUM	20000.0	20542.34	102.7

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Concentration Units: ug/L

SAMPLE: CCV

File: AUB25A Feb 25, 2004 11:38

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	47915.06	95.8
CALCIUM	50000.0	50512.04	101.0
IRON	20000.0	19817.83	99.1
LEAD	1000.0	992.86	99.3
MAGNESIUM	50000.0	50557.57	101.1

SAMPLE: CCV

File: AUB25A Feb 25, 2004 12:59

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48832.92	97.7
CALCIUM	50000.0	51387.33	102.8
IRON	20000.0	20096.64	100.5
LEAD	1000.0	1003.26	100.3
MAGNESIUM	50000.0	51213.65	102.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Concentration Units: ug/L

SAMPLE: CCV

File: AUB25A Feb 25, 2004 14:19

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48750.12	97.5
CALCIUM	50000.0	51670.25	103.3
IRON	20000.0	20125.99	100.6
LEAD	1000.0	1001.42	100.1
MAGNESIUM	50000.0	51057.62	102.1

SAMPLE: CCV

File: AUB25A Feb 25, 2004 15:40

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48755.66	97.5
CALCIUM	50000.0	52800.69	105.6
IRON	20000.0	20503.54	102.5
LEAD	1000.0	1028.27	102.8
MAGNESIUM	50000.0	51698.47	103.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWUB18ICW0

Matrix: WATER **SDG Name:** CTO297-4

QC Batch ID: UB18ICW0

Concentration Units : ug/L

Analyte	RESULT	C
ARSENIC	2.130	U
CADMIUM	0.250	U
CHROMIUM	0.880	U
LEAD	1.560	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Concentration Units: ug/L

SAMPLE: ICB

File: AUB19A Feb 19, 2004 9:56

Analyte	Result	C
ALUMINUM	29.20	U
ARSENIC	2.13	U
CADMIUM	0.25	U
CALCIUM	12.40	U
CHROMIUM	0.88	U
IRON	13.90	U
LEAD	1.56	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUB19A Feb 19, 2004 10:37

Analyte	Result	C
ALUMINUM	29.20	U
ARSENIC	2.13	U
CADMIUM	0.25	U
CALCIUM	12.40	U
CHROMIUM	0.88	U
IRON	13.90	U
LEAD	1.56	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUB19A Feb 19, 2004 11:59

Analyte	Result	C
ALUMINUM	29.20	U
ARSENIC	2.13	U
CADMIUM	0.25	U
CALCIUM	12.40	U
CHROMIUM	0.88	U
IRON	13.90	U
LEAD	1.56	U
MAGNESIUM	5.65	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Concentration Units: ug/L

SAMPLE: CCB

File: AUB19A Feb 19, 2004 13:20

Analyte	Result	C
ALUMINUM	47.90	B
ARSENIC	2.13	U
CADMIUM	0.25	U
CALCIUM	12.40	U
CHROMIUM	0.88	U
IRON	13.90	U
LEAD	1.56	U
MAGNESIUM	5.94	B

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Concentration Units: ug/L

SAMPLE: ICB

File: AUB24A Feb 24, 2004 10:13

Analyte	Result	C
ALUMINUM	29.20	U
ARSENIC	2.13	U
CADMIUM	0.25	U
CALCIUM	12.40	U
CHROMIUM	0.88	U
IRON	13.90	U
LEAD	1.56	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUB24A Feb 24, 2004 10:57

Analyte	Result	C
ALUMINUM	29.20	U
ARSENIC	2.13	U
CADMIUM	0.25	U
CALCIUM	12.40	U
CHROMIUM	-6.29	B
IRON	-33.48	B
LEAD	1.56	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUB24A Feb 24, 2004 12:17

Analyte	Result	C
ALUMINUM	-43.82	B
ARSENIC	2.13	U
CADMIUM	0.25	U
CALCIUM	12.40	U
CHROMIUM	-6.39	B
IRON	-32.17	B
LEAD	1.56	U
MAGNESIUM	5.65	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Concentration Units: ug/L

SAMPLE: CCB

File: AUB24A Feb 24, 2004 13:38

Analyte	Result	C
ALUMINUM	-67.94	B
ARSENIC	2.13	U
CADMIUM	0.25	U
CALCIUM	12.40	U
CHROMIUM	-6.82	B
IRON	-26.02	B
LEAD	1.56	U
MAGNESIUM	-7.18	B

SAMPLE: CCB

File: AUB24A Feb 24, 2004 15:03

Analyte	Result	C
ALUMINUM	-123.50	B
ARSENIC	2.13	U
CADMIUM	0.25	U
CALCIUM	13.89	B
CHROMIUM	-6.97	B
IRON	-23.29	B
LEAD	1.56	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUB24A Feb 24, 2004 16:24

Analyte	Result	C
ALUMINUM	-165.45	B
ARSENIC	2.13	U
CADMIUM	0.25	U
CALCIUM	24.75	B
CHROMIUM	-6.80	B
IRON	-25.55	B
LEAD	1.56	U
MAGNESIUM	5.65	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Concentration Units: ug/L

SAMPLE: CCB

File: AUB24A Feb 24, 2004 17:44

Analyte	Result	C
ALUMINUM	-159.33	B
ARSENIC	2.13	U
CADMIUM	0.25	U
CALCIUM	24.78	B
CHROMIUM	-7.09	B
IRON	-35.11	B
LEAD	1.56	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUB24A Feb 24, 2004 18:51

Analyte	Result	C
ALUMINUM	-109.96	B
ARSENIC	2.13	U
CADMIUM	0.25	U
CALCIUM	12.40	U
CHROMIUM	-6.66	B
IRON	-32.40	B
LEAD	1.56	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUB24A Feb 24, 2004 19:25

Analyte	Result	C
ALUMINUM	-72.05	B
ARSENIC	2.13	U
CADMIUM	0.25	U
CALCIUM	12.40	U
CHROMIUM	-6.67	B
IRON	-28.75	B
LEAD	1.56	U
MAGNESIUM	5.65	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Concentration Units: ug/L

SAMPLE: ICB

File: AUB25A Feb 25, 2004 11:01

Analyte	Result	C
ALUMINUM	29.20	U
CALCIUM	12.40	U
IRON	13.90	U
LEAD	1.56	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUB25A Feb 25, 2004 11:45

Analyte	Result	C
ALUMINUM	29.20	U
CALCIUM	12.40	U
IRON	13.90	U
LEAD	1.56	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUB25A Feb 25, 2004 13:05

Analyte	Result	C
ALUMINUM	29.20	U
CALCIUM	12.40	U
IRON	13.90	U
LEAD	1.56	U
MAGNESIUM	5.65	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Concentration Units: ug/L

SAMPLE: CCB

File: AUB25A Feb 25, 2004 14:26

Analyte	Result	C
ALUMINUM	29.20	U
CALCIUM	12.40	U
IRON	13.90	U
LEAD	1.56	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUB25A Feb 25, 2004 15:48

Analyte	Result	C
ALUMINUM	29.20	U
CALCIUM	12.40	U
IRON	13.90	U
LEAD	1.56	U
MAGNESIUM	5.65	U

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Quality Control Report

Blank Sample Summary Report

Nitrate As N

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG5880	EPA 353.2	06-FEB-04	N/A	U 0.050 mg/L	.05 mg/L

Nitrite As N

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG5880	EPA 353.2	06-FEB-04	N/A	U 0.050 mg/L	.05 mg/L

Sulfate-Turbidimetric

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG6223	EPA 375.4	24-FEB-04	N/A	U 1.0 mg/L	1 mg/L

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Quality Control Report

Blank Sample Summary Report

Nitrate As N

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG5880	EPA 353.2	06-FEB-04	N/A	U 0.050 mg/L	.05 mg/L

Nitrite As N

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG5880	EPA 353.2	06-FEB-04	N/A	U 0.050 mg/L	.05 mg/L

Sulfate-Turbidimetric

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG6223	EPA 375.4	24-FEB-04	N/A	U 1.0 mg/L	1 mg/L

Katahdin
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Quality Control Report

Blank Sample Summary Report

Nitrate As N

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG6075	EPA 353.2	07-FEB-04	N/A	U 0.050 mg/L	.05 mg/L

Sulfate-Turbidimetric

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG6223	EPA 375.4	24-FEB-04	N/A	U 1.0 mg/L	1 mg/L

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Quality Control Report

Matrix Spike Sample Summary Report

Nitrate As N

Matrix Spike Sample ID	Sample Type	Original Sample ID	QC Batch	Analysis Date	Result Units	Spike Amount	Sample Result	MS Result	Recovery (%)	Recovery Limit
WG6075-4	MS	WU0346-1	WG6075	07-FEB-04	mg/L	.5	U 0.10	1.1	115	75 - 125

Sulfate-Turbidimetric

Matrix Spike Sample ID	Sample Type	Original Sample ID	QC Batch	Analysis Date	Result Units	Spike Amount	Sample Result	MS Result	Recovery (%)	Recovery Limit
WG6223-6	MS	WU0346-1	WG6223	24-FEB-04	mg/L	10	160	140	0*	75 - 125

*initial sample result 74, spike added

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INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** A

Instrument Name: TJA TRACE ICP **Date:** 7/23/03

Concentration Units: ug/L

Analyte	CRDL	IDL	M
ARSENIC	8.0	2.13	P
CADMIUM	10	0.25	P
CHROMIUM	15	0.88	P
LEAD	5.0	1.56	P

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** UB18ICW0

Matrix: WATER **SDG Name:** CTO297-4

Method: P **Prep Date:** 02/18/2004

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWUB18ICW0	LCSWUB18ICW0	0.05	0.05
PBWUB18ICW0	PBWUB18ICW0	0.05	0.05
G01-MW-01A-0204	WU0318-002	0.05	0.05
G01-MW-01A-0204P	WU0318-002P	0.05	0.05
G01-MW-01A-0204S	WU0318-002S	0.05	0.05
G01-MW-01-0204	WU0318-003	0.05	0.05
G01-MW-03-0204	WU0318-004	0.05	0.05
G01-MW-02-0204	WU0318-005	0.05	0.05
G01-MW-04-0204	WU0318-006	0.05	0.05
G01-MW-06-0204	WU0334-001	0.05	0.05
G01-MW-05-0204	WU0334-002	0.05	0.05
G01-MW-11-0204	WU0346-001	0.05	0.05
KW-DUP-02-0204	WU0346-003	0.05	0.05
G01-MW-07-0204	WU0346-005	0.05	0.05
G01-MW-10-0204	WU0346-007	0.05	0.05
G01-MW-09-0204	WU0346-008	0.05	0.05
G01-MW-12-0204	WU0346-009	0.05	0.05
G01-MW-08-0204	WU0346-010	0.05	0.05

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Instrument ID: TJA TRACE ICP **File Name:** AUB19A

Date: 2/19/04 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements
S0		1	9:06	Al As Cd Ca Cr Fe Pb Mg
S1		1	9:13	Al As Cd Ca Cr Fe Pb Mg
AL_IEC		1	9:23	Al As Cd Ca Cr Fe Pb Mg
FE_IEC		1	9:29	Al As Cd Ca Cr Fe Pb Mg
MN_IEC		1	9:36	Al As Cd Ca Cr Fe Pb Mg
IEC		1	9:43	Al As Cd Ca Cr Fe Pb Mg
ICV		1	9:50	Al As Cd Ca Cr Fe Pb Mg
ICB		1	9:56	Al As Cd Ca Cr Fe Pb Mg
PQL		1	10:03	Al As Cd Ca Cr Fe Pb Mg
CRI		1	10:10	Al As Cd Ca Cr Fe Pb Mg
ICSA		1	10:16	Al As Cd Ca Cr Fe Pb Mg
ICSAB		1	10:23	Al As Cd Ca Cr Fe Pb Mg
CCV		1	10:30	Al As Cd Ca Cr Fe Pb Mg
CCB		1	10:37	Al As Cd Ca Cr Fe Pb Mg
ZZZZZZ		1	10:46	
PBWUB18ICW0		1	10:52	As Cd Cr Pb
LCSWUB18ICW0		1	10:59	As Cd Cr Pb
ZZZZZZ		1	11:06	
ZZZZZZ		1	11:12	
ZZZZZZ		1	11:19	
ZZZZZZ		5	11:26	
ZZZZZZ		1	11:32	
ZZZZZZ		1	11:39	
ZZZZZZ		1	11:46	
CCV		1	11:52	Al As Cd Ca Cr Fe Pb Mg
CCB		1	11:59	Al As Cd Ca Cr Fe Pb Mg
ZZZZZZ		5	12:06	
ZZZZZZ		1	12:13	
ZZZZZZ		1	12:19	
ZZZZZZ		5	12:26	
ZZZZZZ		25	12:33	
ZZZZZZ		5	12:39	
ZZZZZZ		1	12:46	
CRI		1	12:53	Al As Cd Ca Cr Fe Pb Mg
ICSA		1	12:59	Al As Cd Ca Cr Fe Pb Mg
ICSAB		1	13:06	Al As Cd Ca Cr Fe Pb Mg
CCV		1	13:13	Al As Cd Ca Cr Fe Pb Mg
CCB		1	13:20	Al As Cd Ca Cr Fe Pb Mg

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Instrument ID: TJA TRACE ICP **File Name:** AUB24A

Date: 2/24/04 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements
S0		1	9:23	Al As Cd Ca Cr Fe Pb Mg
S1		1	9:30	Al As Cd Ca Cr Fe Pb Mg
AL_IEC		1	9:40	Al As Cd Ca Cr Fe Pb Mg
FE_IEC		1	9:46	Al As Cd Ca Cr Fe Pb Mg
MN_IEC		1	9:53	Al As Cd Ca Cr Fe Pb Mg
IEC		1	10:00	Al As Cd Ca Cr Fe Pb Mg
ICV		1	10:07	Al As Cd Ca Cr Fe Pb Mg
ICB		1	10:13	Al As Cd Ca Cr Fe Pb Mg
PQL		1	10:20	Al As Cd Ca Cr Fe Pb Mg
CRI		1	10:27	Al As Cd Ca Cr Fe Pb Mg
ICSA		1	10:34	Al As Cd Ca Cr Fe Pb Mg
ICSAB		1	10:40	Al As Cd Ca Cr Fe Pb Mg
CCV		1	10:47	Al As Cd Ca Cr Fe Pb Mg
CCB		1	10:57	Al As Cd Ca Cr Fe Pb Mg
ZZZZZZ		1	11:04	
ZZZZZZ		5	11:10	
ZZZZZZ		1	11:17	
ZZZZZZ		1	11:24	
ZZZZZZ		1	11:30	
ZZZZZZ		1	11:37	
ZZZZZZ		1	11:44	
ZZZZZZ		5	11:50	
ZZZZZZ		1	11:57	
ZZZZZZ		1	12:04	
CCV		1	12:11	Al As Cd Ca Cr Fe Pb Mg
CCB		1	12:17	Al As Cd Ca Cr Fe Pb Mg
ZZZZZZ		1	12:24	
ZZZZZZ		1	12:31	
ZZZZZZ		1	12:37	
ZZZZZZ		1	12:44	
ZZZZZZ		1	12:51	
ZZZZZZ		1	12:57	
ZZZZZZ		1	13:04	
ZZZZZZ		1	13:11	
ZZZZZZ		1	13:18	
ZZZZZZ		1	13:24	
CCV		1	13:31	Al As Cd Ca Cr Fe Pb Mg
CCB		1	13:38	Al As Cd Ca Cr Fe Pb Mg
ZZZZZZ		1	13:44	
ZZZZZZ		1	13:51	
ZZZZZZ		1	13:58	
ZZZZZZ		1	14:05	
ZZZZZZ		1	14:11	
ZZZZZZ		1	14:18	
ZZZZZZ		1	14:25	
CRI		1	14:31	Al As Cd Ca Cr Fe Pb Mg
ICSA		1	14:38	Al As Cd Ca Cr Fe Pb Mg
ICSAB		1	14:45	Al As Cd Ca Cr Fe Pb Mg
CCV		1	14:51	Al As Cd Ca Cr Fe Pb Mg
CCB		1	15:03	Al As Cd Ca Cr Fe Pb Mg

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Instrument ID: TJA TRACE ICP **File Name:** AUB24A

Date: 2/24/04 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements
ZZZZZZ		5	15:10	
ZZZZZZ		1	15:17	
ZZZZZZ		1	15:24	
ZZZZZZ		1	15:30	
ZZZZZZ		1	15:37	
ZZZZZZ		1	15:44	
ZZZZZZ		1	15:50	
WU0334-001	G01-MW-06-0204	1	15:57	As Cd Cr Pb
WU0334-002	G01-MW-05-0204	1	16:04	Pb
WU0346-001	G01-MW-11-0204	1	16:10	As Cd Cr Pb
CCV		1	16:17	Al As Cd Ca Cr Fe Pb Mg
CCB		1	16:24	Al As Cd Ca Cr Fe Pb Mg
WU0346-003	KW-DUP-02-0204	1	16:31	As Cd Cr Pb
WU0346-005	G01-MW-07-0204	1	16:37	As Cd Cr
WU0346-007	G01-MW-10-0204	1	16:44	Pb
ZZZZZZ		1	16:51	
WU0346-009	G01-MW-12-0204	1	16:57	Pb
WU0346-010	G01-MW-08-0204	1	17:04	Pb
ZZZZZZ		1	17:11	
ZZZZZZ		1	17:18	
ZZZZZZ		1	17:24	
ZZZZZZ		1	17:31	
CCV		1	17:38	Al As Cd Ca Cr Fe Pb Mg
CCB		1	17:44	Al As Cd Ca Cr Fe Pb Mg
ZZZZZZ		1	17:51	
ZZZZZZ		5	17:58	
ZZZZZZ		1	18:04	
ZZZZZZ		1	18:11	
ZZZZZZ		1	18:18	
ZZZZZZ		1	18:25	
ZZZZZZ		1	18:31	
ZZZZZZ		1	18:38	
CCV		1	18:45	Al As Cd Ca Cr Fe Pb Mg
CCB		1	18:51	Al As Cd Ca Cr Fe Pb Mg
CRI		1	18:58	Al As Cd Ca Cr Fe Pb Mg
ICSA		1	19:05	Al As Cd Ca Cr Fe Pb Mg
ICSAB		1	19:12	Al As Cd Ca Cr Fe Pb Mg
CCV		1	19:18	Al As Cd Ca Cr Fe Pb Mg
CCB		1	19:25	Al As Cd Ca Cr Fe Pb Mg

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Instrument ID: TJA TRACE ICP **File Name:** AUB25A

Date: 2/25/04 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements
S0		1	10:03	Al Ca Fe Pb Mg
S1		1	10:09	Al Ca Fe Pb Mg
AL_IEC		1	10:19	Al Ca Fe Pb Mg
FE_IEC		1	10:26	Al Ca Fe Pb Mg
MN_IEC		1	10:33	Al Ca Fe Pb Mg
IEC		1	10:39	Al Ca Fe Pb Mg
ICV		1	10:46	Al Ca Fe Pb Mg
ICV		1	10:54	Al Ca Fe Pb Mg
ICB		1	11:01	Al Ca Fe Pb Mg
PQL		1	11:08	Al Ca Fe Pb Mg
CRI		1	11:18	Al Ca Fe Pb Mg
ICSA		1	11:25	Al Ca Fe Pb Mg
ICSAB		1	11:32	Al Ca Fe Pb Mg
CCV		1	11:38	Al Ca Fe Pb Mg
CCB		1	11:45	Al Ca Fe Pb Mg
ZZZZZZ		1	11:52	
ZZZZZZ		1	11:58	
ZZZZZZ		1	12:05	
ZZZZZZ		1	12:12	
ZZZZZZ		5	12:19	
ZZZZZZ		5	12:25	
ZZZZZZ		5	12:32	
ZZZZZZ		5	12:39	
WU0318-002	G01-MW-01A-0204	5	12:45	Pb
WU0318-002L	G01-MW-01A-0204L	25	12:52	Pb
CCV		1	12:59	Al Ca Fe Pb Mg
CCB		1	13:05	Al Ca Fe Pb Mg
WU0318-002P	G01-MW-01A-0204P	5	13:12	Pb
WU0318-002S	G01-MW-01A-0204S	5	13:19	Pb
WU0318-003	G01-MW-01-0204	2	13:26	Pb
WU0318-004	G01-MW-03-0204	2	13:32	Pb
WU0318-005	G01-MW-02-0204	2	13:39	Pb
WU0318-006	G01-MW-04-0204	2	13:46	Pb
WU0346-005	G01-MW-07-0204	2	13:52	Pb
WU0346-008	G01-MW-09-0204	2	13:59	Pb
ZZZZZZ		1	14:06	
ZZZZZZ		1	14:12	
CCV		1	14:19	Al Ca Fe Pb Mg
CCB		1	14:26	Al Ca Fe Pb Mg
ZZZZZZ		5	14:33	
ZZZZZZ		1	14:39	
ZZZZZZ		1	14:46	
ZZZZZZ		1	14:53	
ZZZZZZ		1	14:59	
ZZZZZZ		1	15:06	
ZZZZZZ		1	15:13	
CRI		1	15:19	Al Ca Fe Pb Mg
ICSA		1	15:26	Al Ca Fe Pb Mg
ICSAB		1	15:33	Al Ca Fe Pb Mg
CCV		1	15:40	Al Ca Fe Pb Mg

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO297-4

Instrument ID: TJA TRACE ICP **File Name:** AUB25A

Date: 2/25/04 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements
CCB		1	15:48	Al Ca Fe Pb Mg

FIELD DUPLICATE PRECISION

ANALYTE	KW-DUP-02-0204	G01-MW-11-0204	RPD	DIFFERENCE
Arsenic	5.4	5.8	7.14	0.4
Cadmium	.25U	.25U	#VALUE!	#VALUE!
Chromium	.88U	.88U	#VALUE!	#VALUE!
Lead	1.56U	1.56U	#VALUE!	#VALUE!
Nitrate	.1U	.1U	#VALUE!	#VALUE!
Sulfate	140	160	13.33	20

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **C. BRYAN** **DATE:** **JULY 18, 2004**

FROM: **EDWARD SEDLMYER** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOA/PAH/TPH/METHANE**
CTO 318, NAS KEY WEST
SDG 3181

SAMPLES: 20/Aqueous

A824-MW-01-0504	A824-MW-02-0504	A824-MW-03-0504
G01-MW02-0504	G01-MW-03-0504	G01-MW04-0504
G01-MW05-0504	G01-MW-10-0504	G01-MW11-0504
G01-MW-12-0504	KW-DUP-01-0504	KW-DUP-03-0504
KWTB-052104	KWTB-052404	RR-MW-06-0504
B01-MW-01-0504	B01-MW-03-0504	FC-MW-05-0504
FC-MW-06-0504	FC-MW-22-0504	

OVERVIEW

The sample set for CTO 318 NAS Key West, SDG 3181 consists of two (2) trip blanks, and eighteen (18) aqueous environmental samples. All samples were analyzed for volatile organic compounds (VOA) including 1,2-dibromoethane (EDB), polynuclear aromatic hydrocarbons (PAHs), methane, and total petroleum hydrocarbons. The trip blanks were analyzed for VOAs only. Two field duplicates were associated with this SDG: KW-DUP-01-0504 / FC-MW-22-0504 and KW-DUP-03-0504 / A824-MW-01-0504.

The samples were collected by TetraTech NUS on May 20, 21, and 24, 2004 and analyzed by Katahdin Analytical Services and Air Toxics Incorporated. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Method 8260B, 8270C selective ion monitoring (SIM), Florida PRO, Modified RSK-175, and EPA method 504 analysis and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

*	• Data completeness
*	• Holding times
*	• Initial/continuing calibrations
	• Laboratory method blank results
	• Surrogate Recoveries
*	• Field Duplicates
	• Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

Volatiles

The following compound was detected in the method blanks:

Compound	Maximum Concentration	Blank Action Level
Methylene chloride	1.0 ug/L	10.0 ug/L

- Value < Reporting Limit (RL); report RL followed by a U.
- Value > RL and < Action level; report value followed by a U.

Sample aliquot and dilution factors were taken into consideration when applying the blank action levels. Because methylene chloride was not detected in any associated samples, no qualification of the data was necessary. Field quality control blanks were not qualified based on laboratory method blank contamination.

1,2-Dibromoethane (EDB)

The surrogate recoveries for samples G01-MW-12-0504 and G01-MW02-0504 were less than the lower quality control criterion for surrogate tetrachloro-m-xylene on both columns. The samples were re-analyzed with similar results. No action was taken on this basis because 1,2-dibromoethane was not detected in the samples.

The surrogate recoveries for samples G01-MW-10-0504, A824-MW-02-0504, and KW-DUP-03-0504 were less than the lower quality control criterion for surrogate tetrachloro-m-xylene on one column. No action was taken on this basis because 1,2-dibromoethane was not detected in the samples and the surrogate recoveries were acceptable on one column.

Polynuclear Aromatic Hydrocarbons

A surrogate recovery for sample G01-MW-03-0504 was less than the lower quality control criteria for surrogate fluorene-d10. No action was taken on this basis because no semivolatiles were detected and only surrogate was out of the criteria limit.

Sample G01-MW05-0504 had a concentration for 1-methylnaphthalene greater than the calibration range of the instrument. The diluted analysis (40X) diluted out the presence of this analyte. Therefore, the original result was used and was qualified as estimated (J).

Samples G01-MW-10-0504 (5X), G01-MW-12-0504 (10X), FC-MW-22-0504 (100X), KW-DUP-01-0504 (200X), G01-MW05-0504 (40X), and G01-MW11-0504 (20X) analyzed for PAHs required dilutions due to high concentrations of target compounds. The diluted results for these compounds have been transposed to the initial analysis and were used for validation. The initial analysis provides the lowest valid detection limit for the non-detected PAHs.

Total Petroleum Hydrocarbon

The surrogate recoveries for samples FC-MW-22-0504, G01-MW02-0504, and G01-MW05-0504 were less than the lower quality control criteria for surrogate O-terphenyl. No action was taken on this basis because the other surrogate had acceptable recoveries.

Additional Comments:

Positive results less than the reporting limit (RL) were qualified as estimated "J", due to uncertainty near the detection limit.

The detection limits for bromodichloromethane, dibromochloromethane, cis-1,3-dichloropropene, trans-

1,3-dichloropropene, 1,1,2,2-tetrachloroethane, and vinyl chloride were greater than the detection limits stated in the laboratory specification. No action was taken on this basis.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Detection limits for bromodichloromethane, dibromochloromethane, cis-1,3-dichloropropene, trans-1,3-dichloropropene, 1,1,2,2-tetrachloroethane, vinyl chloride, and methane were greater than defined in the laboratory specification. Methylene chloride was detected in the laboratory blanks.

Other Factors Affecting Data Quality: Several fractions had surrogates recoveries outside of the criteria limits.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99), and the NFESC guidelines IRCDQM (Sept., 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS

Edward Sedlmyer
Chemist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	A824-MW-01-0504	nsample	A824-MW-01-0504	nsample	A824-MW-02-0504
samp_date	5/21/2004	samp_date	5/21/2004	samp_date	5/21/2004
lab_id	WU1519-2	lab_id	WU1519-2	lab_id	WU1519-3
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	0.2	J	P
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	0.5	J	P
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	A824-MW-02-0504
samp_date	5/21/2004
lab_id	WU1519-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

nsample	A824-MW-03-0504
samp_date	5/21/2004
lab_id	WU1519-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

nsample	A824-MW-03-0504
samp_date	5/21/2004
lab_id	WU1519-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	G01-MW-02-0504
samp_date	5/24/2004
lab_id	WU1529-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.2	J	P
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

nsample	G01-MW-02-0504
samp_date	5/24/2004
lab_id	WU1529-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

nsample	G01-MW-03-0504
samp_date	5/20/2004
lab_id	WU1503-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	G01-MW-03-0504
samp_date	5/20/2004
lab_id	WU1503-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

nsample	G01-MW-04-0504
samp_date	5/24/2004
lab_id	WU1529-6
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

nsample	G01-MW-04-0504
samp_date	5/24/2004
lab_id	WU1529-6
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	G01-MW-05-0504	nsample	G01-MW-05-0504	nsample	G01-MW-10-0504
samp_date	5/24/2004	samp_date	5/24/2004	samp_date	5/20/2004
lab_id	WU1529-7	lab_id	WU1529-7	lab_id	WU1503-4
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	0.4	J	P
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.2	J	P
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	2		
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	G01-MW-10-0504
samp_date	5/20/2004
lab_id	WU1503-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

nsample	G01-MW-11-0504
samp_date	5/24/2004
lab_id	WU1529-8
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1		
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1		
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	0.6	J	P
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	6		
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

nsample	G01-MW-11-0504
samp_date	5/24/2004
lab_id	WU1529-8
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	G01-MW-12-0504
samp_date	5/20/2004
lab_id	WU1503-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	2		
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

nsample	G01-MW-12-0504
samp_date	5/20/2004
lab_id	WU1503-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

nsample	KW-DUP-03-0504
samp_date	5/21/2004
lab_id	WU1519-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	A824-MW-01-0504

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	KW-DUP-03-0504
samp_date	5/21/2004
lab_id	WU1519-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	A824-MW-01-0504

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

nsample	KWTB-052104
samp_date	5/21/2004
lab_id	WU1519-6
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

nsample	KWTB-052404
samp_date	5/22/2004
lab_id	WU1529-9
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	RR-MW-06-0504
samp_date	5/21/2004
lab_id	WU1519-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

nsample	RR-MW-06-0504
samp_date	5/21/2004
lab_id	WU1519-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

PROJ_NO: 5658

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	FC-MW-05-0504
samp_date	5/22/2004
lab_id	WU1529-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

nsample	FC-MW-05-0504
samp_date	5/22/2004
lab_id	WU1529-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

nsample	FC-MW-06-0504
samp_date	5/22/2004
lab_id	WU1529-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	0.1	J	P
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	0.5	J	P
M+P-XYLENES	0.3	J	P
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	0.3	J	P
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

PROJ_NO: 5658

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	FC-MW-06-0504
samp_date	5/22/2004
lab_id	WU1529-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

nsample	FC-MW-22-0504
samp_date	5/22/2004
lab_id	WU1529-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	39		
M+P-XYLENES	6		
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	0.6	J	P
TETRACHLOROETHENE	1	U	
TOLUENE	0.6	J	P
TOTAL XYLENES	6.6		
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

nsample	FC-MW-22-0504
samp_date	5/22/2004
lab_id	WU1529-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

PROJ_NO: 5658

SDG: 3181 MEDIA: WATER DATA FRACTION: OV

nsample	KW-DUP-01-0504
samp_date	5/22/2004
lab_id	WU1529-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	FC-MW-22-0504

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	39		
M+P-XYLENES	6		
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	0.6	J	P
TETRACHLOROETHENE	1	U	
TOLUENE	0.7	J	P
TOTAL XYLENES	6.		
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

nsample	KW-DUP-01-0504
samp_date	5/22/2004
lab_id	WU1529-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	FC-MW-22-0504

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: PAH

nsample	A824-MW-01-0504	nsample	A824-MW-02-0504	nsample	A824-MW-03-0504
samp_date	5/21/2004	samp_date	5/21/2004	samp_date	5/21/2004
lab_id	WU1519-2	lab_id	WU1519-3	lab_id	WU1519-4
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: PAH

nsample	B01-MW-01-0504	nsample	B01-MW-03-0504	nsample	G01-MW-02-0504
samp_date	5/20/2004	samp_date	5/20/2004	samp_date	5/24/2004
lab_id	WU1503-1	lab_id	WU1503-2	lab_id	WU1529-5
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: PAH

nsample	G01-MW-03-0504	nsample	G01-MW-04-0504	nsample	G01-MW-05-0504
samp_date	5/20/2004	samp_date	5/24/2004	samp_date	5/24/2004
lab_id	WU1503-3	lab_id	WU1529-6	lab_id	WU1529-7
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.19	J	P
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	3.8	J	L
2-METHYLNAPHTHALENE	0.2		
ACENAPHTHENE	92		
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	3.6	J	P
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	2.4		
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	11		
PHENANTHRENE	2.5		
PYRENE	0.74		

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: PAH

nsample	G01-MW-10-0504
samp_date	5/20/2004
lab_id	WU1503-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	9.6		
2-METHYLNAPHTHALENE	0.77		
ACENAPHTHENE	0.25		
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.11	J	P
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.07	J	P
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	5.9		
PHENANTHRENE	0.87		
PYRENE	0.2	U	

nsample	G01-MW-11-0504
samp_date	5/24/2004
lab_id	WU1529-8
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	40		
2-METHYLNAPHTHALENE	43		
ACENAPHTHENE	2.6		
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.28		
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	2.8		
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	16		
PHENANTHRENE	3.6	J	P
PYRENE	0.2	U	

nsample	G01-MW-12-0504
samp_date	5/20/2004
lab_id	WU1503-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	16		
2-METHYLNAPHTHALENE	6.9		
ACENAPHTHENE	2.2		
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.16	J	P
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	1.3		
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	5.0		
PHENANTHRENE	2		
PYRENE	0.2	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: PAH

nsample	KW-DUP-03-0504	nsample	RR-MW-06-0504
samp_date	5/21/2004	samp_date	5/21/2004
lab_id	WU1519-5	lab_id	WU1519-1RA
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:	A824-MW-01-0504	DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

PROJ_NO: 5658

SDG: 3181 MEDIA: WATER DATA FRACTION: PAH

nsample	FC-MW-05-0504
samp_date	5/22/2004
lab_id	WU1529-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

nsample	FC-MW-06-0504
samp_date	5/22/2004
lab_id	WU1529-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.21		
2-METHYLNAPHTHALENE	0.34		
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2		
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

nsample	FC-MW-22-0504
samp_date	5/22/2004
lab_id	WU1529-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	28		
2-METHYLNAPHTHALENE	50		
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	190		
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

PROJ_NO: 5658

SDG: 3181 MEDIA: WATER DATA FRACTION: PAH

nsample	KW-DUP-01-0504
samp_date	5/22/2004
lab_id	WU1529-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	FC-MW-22-0504

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	32	J	P
2-METHYLNAPHTHALENE	67		
ACENAPHTHENE	0.079	J	P
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	220		
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

PROJ_NO: 5658

SDG: 3181 MEDIA: WATER DATA FRACTION: PET

nsample	FC-MW-05-0504
samp_date	5/22/2004
lab_id	WU1529-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

nsample	FC-MW-06-0504
samp_date	5/22/2004
lab_id	WU1529-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

nsample	FC-MW-22-0504
samp_date	5/22/2004
lab_id	WU1529-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	1800		

PROJ_NO: 5658

SDG: 3181 MEDIA: WATER DATA FRACTION: PET

nsample	KW-DUP-01-0504
samp_date	5/22/2004
lab_id	WU1529-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	FC-MW-22-0504

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	2200		

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: PET

nsample	A824-MW-01-0504
samp_date	5/21/2004
lab_id	WU1519-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

nsample	A824-MW-02-0504
samp_date	5/21/2004
lab_id	WU1519-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

nsample	A824-MW-03-0504
samp_date	5/21/2004
lab_id	WU1519-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: PET

nsample	G01-MW-02-0504
samp_date	5/24/2004
lab_id	WU1529-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	440	J	P

nsample	G01-MW-03-0504
samp_date	5/20/2004
lab_id	WU1503-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

nsample	G01-MW-04-0504
samp_date	5/24/2004
lab_id	WU1529-6
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	810		

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: PET

nsample	G01-MW-05-0504
samp_date	5/24/2004
lab_id	WU1529-7
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	1000		

nsample	G01-MW-10-0504
samp_date	5/20/2004
lab_id	WU1503-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	1900		

nsample	G01-MW-11-0504
samp_date	5/24/2004
lab_id	WU1529-8
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	2000		

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: PET

nsample	G01-MW-12-0504
samp_date	5/20/2004
lab_id	WU1503-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	2700		

nsample	KW-DUP-03-0504
samp_date	5/21/2004
lab_id	WU1519-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	A824-MW-01-0504

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

nsample	RR-MW-06-0504
samp_date	5/21/2004
lab_id	WU1519-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OVG

nsample	A824-MW-01-0504
samp_date	5/21/2004
lab_id	0405424B-05A
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHANE	0.21		

nsample	A824-MW-02-0504
samp_date	5/21/2004
lab_id	0405424B-06A
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHANE	0.03		

nsample	A824-MW-03-0504
samp_date	5/21/2004
lab_id	0405424B-07A
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHANE	0.01	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OVG

nsample	G01-MW02-0504	nsample	G01-MW-03-0504	nsample	G01-MW04-0504
samp_date	5/24/2004	samp_date	5/20/2004	samp_date	5/24/2004
lab_id	0405496-01A	lab_id	0405424A-01A	lab_id	0405496-02A
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHANE	0.38		

Parameter	Result	Val Qual	Qual Code
METHANE	0.69		

Parameter	Result	Val Qual	Qual Code
METHANE	0.87		

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OVG

nsample	G01-MW05-0504
samp_date	5/24/2004
lab_id	0405496-03A
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHANE	3.7		

nsample	G01-MW-10-0504
samp_date	5/20/2004
lab_id	0405424A-02A
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHANE	2.6		

nsample	G01-MW11-0504
samp_date	5/24/2004
lab_id	0405496-04A
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHANE	7.8		

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: OVG

nsample	G01-MW-12-0504	nsample	KW-DUP-03-0504	nsample	RR-MW-06-0504
samp_date	5/20/2004	samp_date	5/21/2004	samp_date	5/21/2004
lab_id	0405424A-03A	lab_id	0405424B-08A	lab_id	0405424B-04A
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/L	units	MG/L	units	MG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	A824-MW-01-0504	DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHANE	5.6		

Parameter	Result	Val Qual	Qual Code
METHANE	0.21		

Parameter	Result	Val Qual	Qual Code
METHANE	0.17		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date:
Analysis Date: 05/28/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-2
Client ID: A824-MW-01-0504
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7858
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.9
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		94%				
17060-07-0	1,2-Dichloroethane-D4		106%				
2037-26-5	Toluene-D8		97%				
460-00-4	P-Bromofluorobenzene		97%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date:
Analysis Date: 05/28/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-3
Client ID: A824-MW-02-0504
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7858
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.9
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	J	0.2	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	J	0.5	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		105%				
17060-07-0	1,2-Dichloroethane-D4		116%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		98%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date:
Analysis Date: 05/28/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-4
Client ID: A824-MW-03-0504
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7858
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.9
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		104%				
17060-07-0	1,2-Dichloroethane-D4		118%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		99%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/24/04
Received Date: 05/25/04
Extraction Date:
Analysis Date: 05/28/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-5
Client ID: G01-MW02-0504
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7857
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	J	0.2	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		101%				
17060-07-0	1,2-Dichloroethane-D4		98%				
2037-26-5	Toluene-D8		100%				
460-00-4	P-Bromofluorobenzene		93%				

Katahdin Analytical Services 1000055

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/20/04
Received Date: 05/21/04
Extraction Date:
Analysis Date: 05/24/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1503-3
Client ID: G01-MW-03-0504
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7754
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		110%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		102%				
460-00-4	P-Bromofluorobenzene		89%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/24/04
Received Date: 05/25/04
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-6
Client ID: G01-MW04-0504
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		104%				
17060-07-0	1,2-Dichloroethane-D4		105%				
2037-26-5	Toluene-D8		104%				
460-00-4	P-Bromofluorobenzene		98%				

Katahdin Analytical Services 1000056

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/24/04
Received Date: 05/25/04
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-7
Client ID: G01-MW05-0504
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	J	0.4	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	J	0.2	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		105%				
17060-07-0	1,2-Dichloroethane-D4		105%				
2037-26-5	Toluene-D8		104%				
460-00-4	P-Bromofluorobenzene		97%				

Katahdin Analytical Services 1000057

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/20/04
Received Date: 05/21/04
Extraction Date:
Analysis Date: 05/24/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1503-4
Client ID: G01-MW-10-0504
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7754
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene		2	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		107%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		104%				
460-00-4	P-Bromofluorobenzene		90%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/24/04
Received Date: 05/25/04
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-8
Client ID: G01-MW11-0504
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane		1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	J	0.6	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene		1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene		6	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		106%				
17060-07-0	1,2-Dichloroethane-D4		104%				
2037-26-5	Toluene-D8		104%				
460-00-4	P-Bromofluorobenzene		99%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/20/04
Received Date: 05/21/04
Extraction Date:
Analysis Date: 05/24/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1503-5
Client ID: G01-MW-12-0504
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7754
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene		2	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		109%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		105%				
460-00-4	P-Bromofluorobenzene		98%				

Katahdin Analytical Services 1000044

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/22/04
Received Date: 05/25/04
Extraction Date:
Analysis Date: 05/28/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-4
Client ID: KW-DUP-01-0504
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7857
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	J	0.7	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene		39	1.0	1	1	0.2
1330-20-7	Xylenes (total)		6	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes		6	1.0	2	2	0.3
95-47-6	o-Xylene	J	0.6	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		100%				
17060-07-0	1,2-Dichloroethane-D4		101%				
2037-26-5	Toluene-D8		106%				
460-00-4	P-Bromofluorobenzene		98%				

Katahdin Analytical Services 1000054

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date:
Analysis Date: 05/28/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-5
Client ID: KW-DUP-03-0504
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7858
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.9
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		104%				
17060-07-0	1,2-Dichloroethane-D4		116%				
2037-26-5	Toluene-D8		97%				
460-00-4	P-Bromofluorobenzene		101%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date:
Analysis Date: 05/28/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-6
Client ID: KWTB-052104
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7858
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.9
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		98%				
17060-07-0	1,2-Dichloroethane-D4		105%				
2037-26-5	Toluene-D8		97%				
460-00-4	P-Bromofluorobenzene		99%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/22/04
Received Date: 05/25/04
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-9
Client ID: KWTB-052404
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		102%				
17060-07-0	1,2-Dichloroethane-D4		101%				
2037-26-5	Toluene-D8		104%				
460-00-4	P-Bromofluorobenzene		99%				

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date:
Analysis Date: 05/28/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-1
Client ID: RR-MW-06-0504
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7858
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.9
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		96%				
17060-07-0	1,2-Dichloroethane-D4		108%				
2037-26-5	Toluene-D8		95%				
460-00-4	P-Bromofluorobenzene		98%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/22/04
Received Date: 05/25/04
Extraction Date:
Analysis Date: 05/28/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-1
Client ID: FC-MW-05-0504
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7857
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		104%				
17060-07-0	1,2-Dichloroethane-D4		103%				
2037-26-5	Toluene-D8		103%				
460-00-4	P-Bromofluorobenzene		96%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/22/04
Received Date: 05/25/04
Extraction Date:
Analysis Date: 05/28/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-2
Client ID: FC-MW-06-0504
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7857
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	J	0.1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	J	0.5	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	J	0.3	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		104%				
17060-07-0	1,2-Dichloroethane-D4		105%				
2037-26-5	Toluene-D8		104%				
460-00-4	P-Bromofluorobenzene		98%				

Katahdin Analytical Services 1000052

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/22/04
Received Date: 05/25/04
Extraction Date:
Analysis Date: 05/28/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-3
Client ID: FC-MW-22-0504
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7857
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	J	0.6	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene		39	1.0	1	1	0.2
1330-20-7	Xylenes (total)		6	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes		6	1.0	2	2	0.3
95-47-6	o-Xylene	J	0.6	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		99%				
17060-07-0	1,2-Dichloroethane-D4		106%				
2037-26-5	Toluene-D8		108%				
460-00-4	P-Bromofluorobenzene		102%				

Katahdin Analytical Services 1000053

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date: 06/03/04
Analysis Date: 06/03/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-2RE
Client ID: A824-MW-01-0504
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7969
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		88%				

Katahdin Analytical Services 6000028

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date: 06/02/04
Analysis Date: 06/02/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-3
Client ID: A824-MW-02-0504
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7920
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		57%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date: 06/02/04
Analysis Date: 06/02/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-4
Client ID: A824-MW-03-0504
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7920
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		78%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/24/04
Received Date: 05/25/04
Extraction Date: 06/02/04
Analysis Date: 06/02/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-5
Client ID: G01-MW02-0504
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7920
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		* 55%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/24/04
Received Date: 05/25/04
Extraction Date: 06/17/04
Analysis Date: 06/17/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-5RE
Client ID: G01-MW02-0504
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG8161
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		* 34%				

Katahdin Analytical Services 6000037

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/20/04
Received Date: 05/21/04
Extraction Date: 06/02/04
Analysis Date: 06/02/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1503-3
Client ID: G01-MW-03-0504
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7920
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		80%				

Katahdin Analytical Services 6000023

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/24/04
Received Date: 05/25/04
Extraction Date: 06/03/04
Analysis Date: 06/03/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-6RE
Client ID: G01-MW04-0504
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7969
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		74%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/24/04
Received Date: 05/25/04
Extraction Date: 06/02/04
Analysis Date: 06/03/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-7
Client ID: G01-MW05-0504
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7920
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		74%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/20/04
Received Date: 05/21/04
Extraction Date: 06/02/04
Analysis Date: 06/02/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1503-4
Client ID: G01-MW-10-0504
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7920
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		58%				

Katahdin Analytical Services 6000024

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/24/04
Received Date: 05/25/04
Extraction Date: 06/02/04
Analysis Date: 06/03/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-8
Client ID: G01-MW11-0504
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7920
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		64%				

Katahdin Analytical Services 6000040

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/20/04
Received Date: 05/21/04
Extraction Date: 06/02/04
Analysis Date: 06/02/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1503-5
Client ID: G01-MW-12-0504
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7920
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		* 54%				

Katahdin Analytical Services 6000025

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/20/04
Received Date: 05/21/04
Extraction Date: 06/03/04
Analysis Date: 06/03/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1503-5RE
Client ID: G01-MW-12-0504
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7969
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		* 56%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/22/04
Received Date: 05/25/04
Extraction Date: 06/02/04
Analysis Date: 06/02/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-4
Client ID: KW-DUP-01-0504
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7920
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		71%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date: 06/02/04
Analysis Date: 06/02/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-5
Client ID: KW-DUP-03-0504
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7920
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		61%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date: 06/03/04
Analysis Date: 06/03/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-1RE
Client ID: RR-MW-06-0504
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7969
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		76%				

Katahdin Analytical Services 6000027

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/22/04
Received Date: 05/25/04
Extraction Date: 06/03/04
Analysis Date: 06/03/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-1RE
Client ID: FC-MW-05-0504
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7969
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		64%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/22/04
Received Date: 05/25/04
Extraction Date: 06/03/04
Analysis Date: 06/04/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-2RE
Client ID: FC-MW-06-0504
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7969
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		86%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/22/04
Received Date: 05/25/04
Extraction Date: 06/02/04
Analysis Date: 06/02/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-3
Client ID: FC-MW-22-0504
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7920
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		71%				

AIR TOXICS LTD.

SAMPLE NAME: A824-MW-01-0504

ID#: 0405424B-05A

MODIFIED METHOD RSK-175 GC/FID

File Name: 7052814	Date of Collection: 5/21/04
Dil. Factor: 1.00	Date of Analysis: 5/28/04 12:41 PM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	0.21

Container Type: VOA Vial-40 mL

AIR TOXICS LTD.

SAMPLE NAME: A824-MW-02-0504

ID#: 0405424B-06A

MODIFIED METHOD RSK-175 GC/FID

File Name:	7052815	Date of Collection:	5/21/04
Dil. Factor:	1.00	Date of Analysis:	5/28/04 01:02 PM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	0.030

Container Type: VOA Vial-40 mL

0012

AIR TOXICS LTD.

SAMPLE NAME: A824-MW-03-0504

ID#: 0405424B-07A

MODIFIED METHOD RSK-175 GC/FID

File Name:	052816	Date of Collection:	5/21/04
Dil. Factor:	1.00	Date of Analysis:	5/28/04 01:23 PM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	Not Detected

Container Type: VOA Vial-40 mL

AIR TOXICS LTD.

SAMPLE NAME: G01-MW02-0504

ID#: 0405496-01A

MODIFIED METHOD RSK-175 GC/FID

File Name: 7060104	Date of Collection: 5/24/04
Dil. Factor: 1.00	Date of Analysis: 6/1/04 08:22 AM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	0.38

Container Type: VOA Vial-40 mL

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-03-0504

ID#: 0405424A-01A

MODIFIED METHOD RSK-175 GC/FID

File Name:	7052818	Date of Collection:	5/20/04
Dil. Factor:	1.00	Date of Analysis:	5/28/04 02:06 PM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	0.69

Container Type: VOA Vial-40 mL

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-03-0504 Duplicate

ID#: 0405424A-01AA

MODIFIED METHOD RSK-175 GC/FID

File Name:	7052819	Date of Collection:	5/20/04
Dil. Factor:	1.00	Date of Analysis:	5/28/04 02:27 PM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	0.74

Container Type: VOA Vial-40 mL

AIR TOXICS LTD.

SAMPLE NAME: G01-MW04-0504

ID#: 0405496-02A

MODIFIED METHOD RSK-175 GC/FID

File Name: 706015	Date of Collection: 5/24/04
Dil. Factor: 1.00	Date of Analysis: 6/1/04 08:45 AM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	0.87

Container Type: VOA Vial-40 mL

0009

AIR TOXICS LTD.

SAMPLE NAME: G01-MW05-0504

ID#: 0405496-03A

MODIFIED METHOD RSK-175 GC/FID

File Name:	7060106	Date of Collection:	5/24/04
Dil. Factor:	1.00	Date of Analysis:	6/7/04 09:05 AM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	3.7

Container Type: VOA Vial-40 mL

0012

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-10-0504

ID#: 0405424A-02A

MODIFIED METHOD RSK-175 GC/FID

File Name:	7052820	Date of Collection:	5/20/04
Dil. Factor:	1.00	Date of Analysis:	5/28/04 02:48 PM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	2.6

Container Type: VOA Vial-40 mL

0012

AIR TOXICS LTD.

SAMPLE NAME: G01-MW11-0504

ID#: 0405496-04A

MODIFIED METHOD RSK-175 GC/FID

File Name:	7060107	Date of Collection:	5/24/04
Dil. Factor:	1.00	Date of Analysis:	6/1/04 09:26 AM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	7.8

Container Type: VOA Vial-40 mL

0015

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-12-0504

ID#: 0405424A-03A

MODIFIED METHOD RSK-175 GC/FID

File Name:	052821	Date of Collection:	5/20/04
Dil. Factor:	1.00	Date of Analysis:	5/28/04 03:10 PM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	5.6

Container Type: VOA Vial-40 mL

AIR TOXICS LTD.

SAMPLE NAME: KW-DUP-03-0504

ID#: 0405424B-08A

MODIFIED METHOD RSK-175 GC/FID

File Name:	70523r7	Date of Collection:	5/21/04
Dil. Factor:	1.00	Date of Analysis:	5/28/04 01:45 PM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	0.21

Container Type: VOA Vial-40 mL

0018

AIR TOXICS LTD.

SAMPLE NAME: RR-MW-06-0504

ID#: 0405424B-04A

MODIFIED METHOD RSK-175 GC/FID

File Name:	705281r	Date of Collection:	5/21/04
Dil. Factor:	1.00	Date of Analysis:	5/28/04 11:37 AM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	0.17

Container Type: VOA Vial-40 mL

0006

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date: 05/25/04
Analysis Date: 06/16/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-2
Client ID: A824-MW-01-0504
SDG: CTO301318-1
Extracted by: KM
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7768
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.076
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.076
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.076
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.076
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.076
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.095
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.076
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.076
7297-45-2	2-Methylnaphthalene-d10		77%				
81103-79-9	Fluorene-d10		80%				
1718-52-1	Pyrene-d10		79%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date: 05/25/04
Analysis Date: 06/16/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-3
Client ID: A824-MW-02-0504
SDG: CTO301318-1
Extracted by: KM
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7768
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.076
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.076
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.076
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.076
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.076
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.095
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.076
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.076
7297-45-2	2-Methylnaphthalene-d10		76%				
81103-79-9	Fluorene-d10		65%				
1718-52-1	Pyrene-d10		46%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date: 05/25/04
Analysis Date: 06/16/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-4
Client ID: A824-MW-03-0504
SDG: CTO301318-1
Extracted by: KM
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7768
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.076
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.076
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.076
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.076
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.076
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.095
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.076
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.076
7297-45-2	2-Methylnaphthalene-d10		88%				
81103-79-9	Fluorene-d10		37%				
1718-52-1	Pyrene-d10		60%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/20/04
Received Date: 05/21/04
Extraction Date: 05/24/04
Analysis Date: 06/15/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1503-1
Client ID: B01-MW-01-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7760
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.077
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.077
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.077
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.077
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.096
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.077
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
7297-45-2	2-Methylnaphthalene-d10		94%				
81103-79-9	Fluorene-d10		57%				
1718-52-1	Pyrene-d10		105%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/20/04
Received Date: 05/21/04
Extraction Date: 05/24/04
Analysis Date: 06/15/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1503-2
Client ID: B01-MW-03-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7760
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.077
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.077
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.077
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.077
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.096
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.077
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
7297-45-2	2-Methylnaphthalene-d10		79%				
81103-79-9	Fluorene-d10		50%				
1718-52-1	Pyrene-d10		77%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/24/04
Received Date: 05/25/04
Extraction Date: 05/26/04
Analysis Date: 06/16/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-5
Client ID: G01-MW02-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7805
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.076
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.076
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.076
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.076
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.076
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.095
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.076
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.076
7297-45-2	2-Methylnaphthalene-d10		43%				
81103-79-9	Fluorene-d10		30%				
1718-52-1	Pyrene-d10		56%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/20/04
Received Date: 05/21/04
Extraction Date: 05/24/04
Analysis Date: 06/16/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1503-3
Client ID: G01-MW-03-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7760
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.077
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.077
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.077
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.077
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.096
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.077
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
7297-45-2	2-Methylnaphthalene-d10		37%				
81103-79-9	Fluorene-d10		* 24%				
1718-52-1	Pyrene-d10		33%				

Katahdin Analytical Services 2000038

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/24/04
Received Date: 05/25/04
Extraction Date: 05/26/04
Analysis Date: 06/16/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-6
Client ID: G01-MW04-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7805
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.076
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene		0.19	1.0	0.20	0.20	0.076
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.076
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.076
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.076
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.095
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.076
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.076
7297-45-2	2-Methylnaphthalene-d10		45%				
81103-79-9	Fluorene-d10		52%				
1718-52-1	Pyrene-d10		52%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/24/04
Received Date: 05/25/04
Extraction Date: 05/26/04
Analysis Date: 06/16/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-7
Client ID: G01-MW05-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7805
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	E	8.4	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene		0.20	1.0	0.20	0.20	0.076
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	E	82	1.0	0.20	0.20	0.076
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene		2.5	1.0	0.20	0.20	0.076
120-12-7	Anthracene	E	4.2	1.0	0.20	0.20	0.076
206-44-0	Fluoranthene		2.4	1.0	0.20	0.20	0.10
129-00-0	Pyrene		0.74	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.076
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.095
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.076
90-12-0	1-Methylnaphthalene	E	3.8	1.0	0.20	0.20	0.076
7297-45-2	2-Methylnaphthalene-d10		75%				
81103-79-9	Fluorene-d10		79%				
1718-52-1	Pyrene-d10		67%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/24/04
Received Date: 05/25/04
Extraction Date: 05/26/04
Analysis Date: 06/18/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-7DL2
Client ID: G01-MW05-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7805
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		11	40	0.20	7.6	1.9
91-57-6	2-Methylnaphthalene	U	7.6	40	0.20	7.6	3.0
208-96-8	Acenaphthylene	U	7.6	40	0.20	7.6	1.9
83-32-9	Acenaphthene		92	40	0.20	7.6	3.0
86-73-7	Fluorene	U	7.6	40	0.20	7.6	2.3
85-01-8	Phenanthrene	J	2.9	40	0.20	7.6	3.0
120-12-7	Anthracene	J	3.6	40	0.20	7.6	3.0
206-44-0	Fluoranthene	J	2.0	40	0.20	7.6	4.2
129-00-0	Pyrene	U	7.6	40	0.20	7.6	3.4
56-55-3	Benzo(a)anthracene	U	7.6	40	0.20	7.6	4.6
218-01-9	Chrysene	U	7.6	40	0.20	7.6	2.7
205-99-2	Benzo(b)fluoranthene	U	7.6	40	0.20	7.6	3.4
207-08-9	Benzo(k)fluoranthene	U	7.6	40	0.20	7.6	3.0
50-32-8	Benzo(a)pyrene	U	7.6	40	0.20	7.6	3.4
193-39-5	Indeno(1,2,3-cd)pyrene	U	7.6	40	0.20	7.6	3.8
53-70-3	Dibenzo(a,h)anthracene	U	7.6	40	0.20	7.6	5.7
191-24-2	Benzo(g,h,i)perylene	U	7.6	40	0.20	7.6	3.0
90-12-0	1-Methylnaphthalene	U	7.6	40	0.20	7.6	3.0
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/20/04
Received Date: 05/21/04
Extraction Date: 05/24/04
Analysis Date: 06/16/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1503-4
Client ID: G01-MW-10-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7760
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	E	6.4	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene		0.77	1.0	0.20	0.20	0.077
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene		0.25	1.0	0.20	0.20	0.077
86-73-7	Fluorene	J	0.070	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene		0.87	1.0	0.20	0.20	0.077
120-12-7	Anthracene	J	0.11	1.0	0.20	0.20	0.077
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.077
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.096
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.077
90-12-0	1-Methylnaphthalene	E	11	1.0	0.20	0.20	0.077
7297-45-2	2-Methylnaphthalene-d10		33%				
81103-79-9	Fluorene-d10		41%				
1718-52-1	Pyrene-d10		34%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/20/04
Received Date: 05/21/04
Extraction Date: 05/24/04
Analysis Date: 06/18/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1503-4DL2
Client ID: G01-MW-10-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7760
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		5.9	5.0	0.20	0.96	0.24
91-57-6	2-Methylnaphthalene	J	0.84	5.0	0.20	0.96	0.38
208-96-8	Acenaphthylene	U	0.96	5.0	0.20	0.96	0.24
83-32-9	Acenaphthene	J	0.44	5.0	0.20	0.96	0.38
86-73-7	Fluorene	U	0.96	5.0	0.20	0.96	0.29
85-01-8	Phenanthrene	J	0.87	5.0	0.20	0.96	0.38
120-12-7	Anthracene	U	0.96	5.0	0.20	0.96	0.38
206-44-0	Fluoranthene	U	0.96	5.0	0.20	0.96	0.53
129-00-0	Pyrene	U	0.96	5.0	0.20	0.96	0.43
56-55-3	Benzo(a)anthracene	U	0.96	5.0	0.20	0.96	0.58
218-01-9	Chrysene	U	0.96	5.0	0.20	0.96	0.34
205-99-2	Benzo(b)fluoranthene	U	0.96	5.0	0.20	0.96	0.43
207-08-9	Benzo(k)fluoranthene	U	0.96	5.0	0.20	0.96	0.38
50-32-8	Benzo(a)pyrene	U	0.96	5.0	0.20	0.96	0.43
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.96	5.0	0.20	0.96	0.48
53-70-3	Dibenzo(a,h)anthracene	U	0.96	5.0	0.20	0.96	0.72
191-24-2	Benzo(g,h,i)perylene	U	0.96	5.0	0.20	0.96	0.38
90-12-0	1-Methylnaphthalene		9.6	5.0	0.20	0.96	0.38
7297-45-2	2-Methylnaphthalene-d10		36%				
81103-79-9	Fluorene-d10		43%				
1718-52-1	Pyrene-d10		32%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/24/04
Received Date: 05/25/04
Extraction Date: 05/26/04
Analysis Date: 06/16/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-8
Client ID: G01-MW11-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7805
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	E	14	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	E	38	1.0	0.20	0.20	0.077
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene		2.6	1.0	0.20	0.20	0.077
86-73-7	Fluorene		2.8	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	E	3.2	1.0	0.20	0.20	0.077
120-12-7	Anthracene		0.28	1.0	0.20	0.20	0.077
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.077
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.096
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.077
90-12-0	1-Methylnaphthalene	E	34	1.0	0.20	0.20	0.077
7297-45-2	2-Methylnaphthalene-d10		68%				
81103-79-9	Fluorene-d10		80%				
1718-52-1	Pyrene-d10		71%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/24/04
Received Date: 05/25/04
Extraction Date: 05/26/04
Analysis Date: 06/18/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-8DL2
Client ID: G01-MW11-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7805
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		16	20	0.20	3.8	0.96
91-57-6	2-Methylnaphthalene		43	20	0.20	3.8	1.5
208-96-8	Acenaphthylene	U	3.8	20	0.20	3.8	0.96
83-32-9	Acenaphthene	U	3.8	20	0.20	3.8	1.5
86-73-7	Fluorene	J	1.5	20	0.20	3.8	1.2
85-01-8	Phenanthrene	J	3.6	20	0.20	3.8	1.5
120-12-7	Anthracene	U	3.8	20	0.20	3.8	1.5
206-44-0	Fluoranthene	U	3.8	20	0.20	3.8	2.1
129-00-0	Pyrene	U	3.8	20	0.20	3.8	1.7
56-55-3	Benzo(a)anthracene	U	3.8	20	0.20	3.8	2.3
218-01-9	Chrysene	U	3.8	20	0.20	3.8	1.3
205-99-2	Benzo(b)fluoranthene	U	3.8	20	0.20	3.8	1.7
207-08-9	Benzo(k)fluoranthene	U	3.8	20	0.20	3.8	1.5
50-32-8	Benzo(a)pyrene	U	3.8	20	0.20	3.8	1.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	3.8	20	0.20	3.8	1.9
53-70-3	Dibenzo(a,h)anthracene	U	3.8	20	0.20	3.8	2.9
191-24-2	Benzo(g,h,i)perylene	U	3.8	20	0.20	3.8	1.5
90-12-0	1-Methylnaphthalene		40	20	0.20	3.8	1.5
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/20/04
Received Date: 05/21/04
Extraction Date: 05/24/04
Analysis Date: 06/16/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1503-5
Client ID: G01-MW-12-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7760
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	E	6.2	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	E	9.3	1.0	0.20	0.20	0.077
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene		2.2	1.0	0.20	0.20	0.077
86-73-7	Fluorene		1.3	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene		2.0	1.0	0.20	0.20	0.077
120-12-7	Anthracene	J	0.16	1.0	0.20	0.20	0.077
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.077
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.096
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.077
90-12-0	1-Methylnaphthalene	E	19	1.0	0.20	0.20	0.077
7297-45-2	2-Methylnaphthalene-d10		51%				
81103-79-9	Fluorene-d10		51%				
1718-52-1	Pyrene-d10		55%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/20/04
Received Date: 05/21/04
Extraction Date: 05/24/04
Analysis Date: 06/17/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1503-5DL2
Client ID: G01-MW-12-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7760
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		5.0	10	0.20	1.9	0.48
91-57-6	2-Methylnaphthalene		6.9	10	0.20	1.9	0.77
208-96-8	Acenaphthylene	U	1.9	10	0.20	1.9	0.48
83-32-9	Acenaphthene	J	1.8	10	0.20	1.9	0.77
86-73-7	Fluorene	U	1.9	10	0.20	1.9	0.58
85-01-8	Phenanthrene		2.3	10	0.20	1.9	0.77
120-12-7	Anthracene	U	1.9	10	0.20	1.9	0.77
206-44-0	Fluoranthene	U	1.9	10	0.20	1.9	1.0
129-00-0	Pyrene	U	1.9	10	0.20	1.9	0.86
56-55-3	Benzo(a)anthracene	U	1.9	10	0.20	1.9	1.2
218-01-9	Chrysene	U	1.9	10	0.20	1.9	0.67
205-99-2	Benzo(b)fluoranthene	U	1.9	10	0.20	1.9	0.86
207-08-9	Benzo(k)fluoranthene	U	1.9	10	0.20	1.9	0.77
50-32-8	Benzo(a)pyrene	U	1.9	10	0.20	1.9	0.86
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.9	10	0.20	1.9	0.96
53-70-3	Dibenzo(a,h)anthracene	U	1.9	10	0.20	1.9	1.4
191-24-2	Benzo(g,h,i)perylene	U	1.9	10	0.20	1.9	0.77
90-12-0	1-Methylnaphthalene		16	10	0.20	1.9	0.77
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/22/04
Received Date: 05/25/04
Extraction Date: 05/26/04
Analysis Date: 06/16/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-4
Client ID: KW-DUP-01-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7805
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	E	180	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	E	67	1.0	0.20	0.20	0.076
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	J	0.079	1.0	0.20	0.20	0.076
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.076
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.076
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.076
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.095
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.076
90-12-0	1-Methylnaphthalene	E	35	1.0	0.20	0.20	0.076
7297-45-2	2-Methylnaphthalene-d10		85%				
81103-79-9	Fluorene-d10		108%				
1718-52-1	Pyrene-d10		119%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/22/04
Received Date: 05/25/04
Extraction Date: 05/26/04
Analysis Date: 06/18/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-4DL2
Client ID: KW-DUP-01-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7805
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		220	200	0.20	38	9.5
91-57-6	2-Methylnaphthalene		67	200	0.20	38	15
208-96-8	Acenaphthylene	U	38	200	0.20	38	9.5
83-32-9	Acenaphthene	U	38	200	0.20	38	15
86-73-7	Fluorene	U	38	200	0.20	38	11
85-01-8	Phenanthrene	U	38	200	0.20	38	15
120-12-7	Anthracene	U	38	200	0.20	38	15
206-44-0	Fluoranthene	U	38	200	0.20	38	21
129-00-0	Pyrene	U	38	200	0.20	38	17
56-55-3	Benzo(a)anthracene	U	38	200	0.20	38	23
218-01-9	Chrysene	U	38	200	0.20	38	13
205-99-2	Benzo(b)fluoranthene	U	38	200	0.20	38	17
207-08-9	Benzo(k)fluoranthene	U	38	200	0.20	38	15
50-32-8	Benzo(a)pyrene	U	38	200	0.20	38	17
193-39-5	Indeno(1,2,3-cd)pyrene	U	38	200	0.20	38	19
53-70-3	Dibenzo(a,h)anthracene	U	38	200	0.20	38	28
191-24-2	Benzo(g,h,i)perylene	U	38	200	0.20	38	15
90-12-0	1-Methylnaphthalene	J	32	200	0.20	38	15
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date: 05/25/04
Analysis Date: 06/16/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-5
Client ID: KW-DUP-03-0504
SDG: CTO301318-1
Extracted by: KM
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7768
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.077
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.077
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.077
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.077
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.096
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.077
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
7297-45-2	2-Methylnaphthalene-d10		80%				
81103-79-9	Fluorene-d10		83%				
1718-52-1	Pyrene-d10		107%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date: 05/25/04
Analysis Date: 06/16/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-1RA
Client ID: RR-MW-06-0504
SDG: CTO301318-1
Extracted by: KM
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7768
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.047
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.047
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.075
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.075
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.075
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.085
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.066
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.085
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.075
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.085
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.094
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.075
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
7297-45-2	2-Methylnaphthalene-d10		56%				
81103-79-9	Fluorene-d10		53%				
1718-52-1	Pyrene-d10		50%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/22/04
Received Date: 05/25/04
Extraction Date: 05/26/04
Analysis Date: 06/16/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-1
Client ID: FC-MW-05-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7805
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.047
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.047
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.075
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.075
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.075
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.085
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.066
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.085
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.075
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.085
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.094
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.075
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
7297-45-2	2-Methylnaphthalene-d10		78%				
81103-79-9	Fluorene-d10		48%				
1718-52-1	Pyrene-d10		136%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/22/04
Received Date: 05/25/04
Extraction Date: 05/26/04
Analysis Date: 06/16/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-2
Client ID: FC-MW-06-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7805
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		0.20	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene		0.34	1.0	0.20	0.20	0.077
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.077
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.077
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.077
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.077
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.096
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.077
90-12-0	1-Methylnaphthalene		0.21	1.0	0.20	0.20	0.077
7297-45-2	2-Methylnaphthalene-d10		89%				
81103-79-9	Fluorene-d10		69%				
1718-52-1	Pyrene-d10		86%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/22/04
Received Date: 05/25/04
Extraction Date: 05/26/04
Analysis Date: 06/16/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-3
Client ID: FC-MW-22-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7805
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	E	160	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	E	57	1.0	0.20	0.20	0.077
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.077
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.077
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.077
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.077
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.096
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.077
90-12-0	1-Methylnaphthalene	E	33	1.0	0.20	0.20	0.077
7297-45-2	2-Methylnaphthalene-d10		79%				
81103-79-9	Fluorene-d10		84%				
1718-52-1	Pyrene-d10		112%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/22/04
Received Date: 05/25/04
Extraction Date: 05/26/04
Analysis Date: 06/18/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-3DL2
Client ID: FC-MW-22-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7805
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		190	100	0.20	19	4.8
91-57-6	2-Methylnaphthalene		50	100	0.20	19	7.7
208-96-8	Acenaphthylene	U	19	100	0.20	19	4.8
83-32-9	Acenaphthene	U	19	100	0.20	19	7.7
86-73-7	Fluorene	U	19	100	0.20	19	5.8
85-01-8	Phenanthrene	U	19	100	0.20	19	7.7
120-12-7	Anthracene	U	19	100	0.20	19	7.7
206-44-0	Fluoranthene	U	19	100	0.20	19	10
129-00-0	Pyrene	U	19	100	0.20	19	8.6
56-55-3	Benzo(a)anthracene	U	19	100	0.20	19	12
218-01-9	Chrysene	U	19	100	0.20	19	6.7
205-99-2	Benzo(b)fluoranthene	U	19	100	0.20	19	8.6
207-08-9	Benzo(k)fluoranthene	U	19	100	0.20	19	7.7
50-32-8	Benzo(a)pyrene	U	19	100	0.20	19	8.6
193-39-5	Indeno(1,2,3-cd)pyrene	U	19	100	0.20	19	9.6
53-70-3	Dibenzo(a,h)anthracene	U	19	100	0.20	19	14
191-24-2	Benzo(g,h,i)perylene	U	19	100	0.20	19	7.7
90-12-0	1-Methylnaphthalene		28	100	0.20	19	7.7
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date: 05/25/04
Analysis Date: 06/19/04
Report Date: 06/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-2
Client ID: A824-MW-01-0504
SDG: CTO301318-1
Extracted by: MC
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7769
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		104%				
	O-Terphenyl		98%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date: 05/25/04
Analysis Date: 06/19/04
Report Date: 06/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-3
Client ID: A824-MW-02-0504
SDG: CTO301318-1
Extracted by: MC
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7769
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		95%				
	O-Terphenyl		91%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date: 05/25/04
Analysis Date: 06/19/04
Report Date: 06/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-4
Client ID: A824-MW-03-0504
SDG: CTO301318-1
Extracted by: MC
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7769
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		100%				
	O-Terphenyl		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO301,318 NAS KEY WEST
PO No:
Sample Date: 05/24/04
Received Date: 05/25/04
Extraction Date: 05/26/04
Analysis Date: 06/19/04
Report Date: 06/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-5
Client ID: G01-MW02-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7803
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	J	440	1.0	500	500	270
	n-Triacontane-D62		87%				
	O-Terphenyl		* 81%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO301,318 NAS KEY WEST
PO No:
Sample Date: 05/20/04
Received Date: 05/21/04
Extraction Date: 05/25/04
Analysis Date: 06/19/04
Report Date: 06/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1503-3
Client ID: G01-MW-03-0504
SDG: CTO301318-1
Extracted by: MC
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7769
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		92%				
	O-Terphenyl		91%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO301,318 NAS KEY WEST
PO No:
Sample Date: 05/24/04
Received Date: 05/25/04
Extraction Date: 05/26/04
Analysis Date: 06/20/04
Report Date: 06/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-6
Client ID: G01-MW04-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7803
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		810	1.0	500	500	270
	n-Triacontane-D62		113%				
	O-Terphenyl		102%				

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO301,318 NAS KEY WEST
PO No:
Sample Date: 05/24/04
Received Date: 05/25/04
Extraction Date: 05/26/04
Analysis Date: 06/20/04
Report Date: 06/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-7
Client ID: G01-MW05-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7803
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		1000	1.0	500	500	270
	n-Triacontane-D62		86%				
	O-Terphenyl		* 78%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO301,318 NAS KEY WEST
PO No:
Sample Date: 05/20/04
Received Date: 05/21/04
Extraction Date: 05/25/04
Analysis Date: 06/19/04
Report Date: 06/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1503-4
Client ID: G01-MW-10-0504
SDG: CTO301318-1
Extracted by: MC
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7769
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		1900	1.0	500	500	270
	n-Triacontane-D62		111%				
	O-Terphenyl		101%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO301,318 NAS KEY WEST
PO No:
Sample Date: 05/24/04
Received Date: 05/25/04
Extraction Date: 05/26/04
Analysis Date: 06/20/04
Report Date: 06/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-8
Client ID: G01-MW11-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7803
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		2000	1.0	500	500	270
	n-Triacontane-D62		111%				
	O-Terphenyl		100%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO301,318 NAS KEY WEST
PO No:
Sample Date: 05/20/04
Received Date: 05/21/04
Extraction Date: 05/25/04
Analysis Date: 06/19/04
Report Date: 06/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1503-5
Client ID: G01-MW-12-0504
SDG: CTO301318-1
Extracted by: MC
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7769
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		2700	1.0	500	500	270
	n-Triacontane-D62		92%				
	O-Terphenyl		85%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO301,318 NAS KEY WEST
PO No:
Sample Date: 05/22/04
Received Date: 05/25/04
Extraction Date: 05/26/04
Analysis Date: 06/19/04
Report Date: 06/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-4
Client ID: KW-DUP-01-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7803
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		2200	1.0	500	500	270
	n-Triacontane-D62		94%				
	O-Terphenyl		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date: 05/25/04
Analysis Date: 06/19/04
Report Date: 06/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-5
Client ID: KW-DUP-03-0504
SDG: CTO301318-1
Extracted by: MC
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7769
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		96%				
	O-Terphenyl		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO301,318 NAS KEY WEST
PO No:
Sample Date: 05/21/04
Received Date: 05/22/04
Extraction Date: 05/25/04
Analysis Date: 06/19/04
Report Date: 06/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1519-1
Client ID: RR-MW-06-0504
SDG: CTO301318-1
Extracted by: MC
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7769
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		99%				
	O-Terphenyl		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO301,318 NAS KEY WEST
PO No:
Sample Date: 05/22/04
Received Date: 05/25/04
Extraction Date: 05/26/04
Analysis Date: 06/19/04
Report Date: 06/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-1
Client ID: FC-MW-05-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7803
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		96%				
	O-Terphenyl		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO301,318 NAS KEY WEST
PO No:
Sample Date: 05/22/04
Received Date: 05/25/04
Extraction Date: 05/26/04
Analysis Date: 06/19/04
Report Date: 06/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-2
Client ID: FC-MW-06-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7803
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		90%				
	O-Terphenyl		86%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO301,318 NAS KEY WEST
PO No:
Sample Date: 05/22/04
Received Date: 05/25/04
Extraction Date: 05/26/04
Analysis Date: 06/19/04
Report Date: 06/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1529-3
Client ID: FC-MW-22-0504
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7803
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		1800	1.0	500	500	270
	n-Triacontane-D62		77%				
	O-Terphenyl		* 72%				

APPENDIX C

SUPPORT DOCUMENTATION

HOLDTIME

SDG CTO301/318-1

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	G01-MW05-0504	WU1529-007	NM	05/24/2004	06/11/2004	06/15/2004	18	4	22
M	UG/L	A824-MW-01-0504	WU1519-002	NM	05/21/2004	06/11/2004	06/15/2004	21	4	25
M	UG/L	RR-MW-06-0504	WU1519-001	NM	05/21/2004	06/11/2004	06/15/2004	21	4	25
M	UG/L	KW-DUP-03-0504	WU1519-005	NM	05/21/2004	06/11/2004	06/15/2004	21	4	25
M	UG/L	KW-DUP-01-0504	WU1529-004	NM	05/22/2004	06/11/2004	06/15/2004	20	4	24
M	UG/L	G01-MW-12-0504	WU1503-005	NM	05/20/2004	06/11/2004	06/15/2004	22	4	26
M	UG/L	G01-MW-10-0504	WU1503-004	NM	05/20/2004	06/11/2004	06/15/2004	22	4	26
M	UG/L	G01-MW04-0504	WU1529-006	NM	05/24/2004	06/11/2004	06/15/2004	18	4	22
M	UG/L	G01-MW-03-0504	WU1503-003	NM	05/20/2004	06/11/2004	06/15/2004	22	4	26
M	UG/L	G01-MW02-0504	WU1529-005	NM	05/24/2004	06/11/2004	06/15/2004	18	4	22
M	UG/L	FC-MW-22-0504	WU1529-003	NM	05/22/2004	06/11/2004	06/15/2004	20	4	24
M	UG/L	FC-MW-06-0504	WU1529-002	NM	05/22/2004	06/11/2004	06/15/2004	20	4	24
M	UG/L	FC-MW-05-0504	WU1529-001	NM	05/22/2004	06/11/2004	06/15/2004	20	4	24
M	UG/L	A824-MW-03-0504	WU1519-004	NM	05/21/2004	06/11/2004	06/15/2004	21	4	25
M	UG/L	A824-MW-02-0504	WU1519-003	NM	05/21/2004	06/11/2004	06/15/2004	21	4	25

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	G01-MW11-0504	WU1529-008	NM	05/24/2004	06/11/2004	06/15/2004	18	4	22
NTA	MG/L	G01-MW-12-0504	WU1503-5	NM	05/20/2004	05/21/2004	05/21/2004	1	0	1
NTA	MG/L	G01-MW05-0504	WU1529-7	NM	05/24/2004	05/26/2004	05/26/2004	2	0	2
NTA	MG/L	KW-DUP-03-0504	WU1519-5	NM	05/21/2004	05/22/2004	05/22/2004	1	0	1
NTA	MG/L	G01-MW11-0504	WU1529-8	NM	05/24/2004	05/26/2004	05/26/2004	2	0	2
NTA	MG/L	G01-MW-10-0504	WU1503-4	NM	05/20/2004	05/21/2004	05/21/2004	1	0	1
NTA	MG/L	G01-MW-03-0504	WU1503-3	NM	05/20/2004	05/21/2004	05/21/2004	1	0	1
NTA	MG/L	G01-MW02-0504	WU1529-5	NM	05/24/2004	05/26/2004	05/26/2004	2	0	2
NTA	MG/L	A824-MW-03-0504	WU1519-4	NM	05/21/2004	05/22/2004	05/22/2004	1	0	1
NTA	MG/L	A824-MW-02-0504	WU1519-3	NM	05/21/2004	05/22/2004	05/22/2004	1	0	1
NTA	MG/L	A824-MW-01-0504	WU1519-2	NM	05/21/2004	05/22/2004	05/22/2004	1	0	1
NTA	MG/L	RR-MW-06-0504	WU1519-1	NM	05/21/2004	05/22/2004	05/22/2004	1	0	1
NTA	MG/L	G01-MW04-0504	WU1529-6	NM	05/24/2004	05/26/2004	05/26/2004	2	0	2
SO4	MG/L	G01-MW11-0504	WU1529-8	NM	05/24/2004	06/17/2004	06/17/2004	24	0	24
SO4	MG/L	A824-MW-01-0504	WU1519-2	NM	05/21/2004	06/03/2004	06/03/2004	13	0	13
SO4	MG/L	A824-MW-02-0504	WU1519-3	NM	05/21/2004	06/03/2004	06/03/2004	13	0	13
SO4	MG/L	A824-MW-03-0504	WU1519-4	NM	05/21/2004	06/03/2004	06/03/2004	13	0	13
SO4	MG/L	G01-MW02-0504	WU1529-5	NM	05/24/2004	06/17/2004	06/17/2004	24	0	24

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SO4	MG/L	G01-MW-03-0504	WU1503-3	NM	05/20/2004	06/03/2004	06/03/2004	14	0	14
SO4	MG/L	G01-MW04-0504	WU1529-6	NM	05/24/2004	06/17/2004	06/17/2004	24	0	24
SO4	MG/L	G01-MW-10-0504	WU1503-4	NM	05/20/2004	06/03/2004	06/03/2004	14	0	14
SO4	MG/L	KW-DUP-03-0504	WU1519-5	NM	05/21/2004	06/03/2004	06/03/2004	13	0	13
SO4	MG/L	RR-MW-06-0504	WU1519-1	NM	05/21/2004	06/03/2004	06/03/2004	13	0	13
SO4	MG/L	G01-MW-12-0504	WU1503-5	NM	05/20/2004	06/07/2004	06/07/2004	18	0	18
SO4	MG/L	G01-MW05-0504	WU1529-7	NM	05/24/2004	06/17/2004	06/17/2004	24	0	24
OS	%	G01-MW-03-0504	WU1503-3	NM	05/20/2004	05/24/2004	06/16/2004	4	23	27
OS	%	G01-MW-10-0504	WU1503-4	NM	05/20/2004	05/24/2004	06/16/2004	4	23	27
OS	%	G01-MW-10-0504DL2	WU1503-4DL2	NM	05/20/2004	05/24/2004	06/18/2004	4	25	29
OS	%	G01-MW11-0504	WU1529-8	NM	05/24/2004	05/26/2004	06/16/2004	2	21	23
OS	%	G01-MW11-0504DL2	WU1529-8DL2	NM	05/24/2004	05/26/2004	06/18/2004	2	23	25
OS	%	G01-MW-12-0504	WU1503-5	NM	05/20/2004	05/24/2004	06/16/2004	4	23	27
OS	%	KW-DUP-01-0504	WU1529-4	NM	05/22/2004	05/26/2004	06/16/2004	4	21	25
OS	%	G01-MW05-0504DL2	WU1529-7DL2	NM	05/24/2004	05/26/2004	06/18/2004	2	23	25
OS	%	RR-MW-06-0504RA	WU1519-1RA	NM	05/21/2004	05/25/2004	06/16/2004	4	22	26
OS	%	KW-DUP-03-0504	WU1519-5	NM	05/21/2004	05/25/2004	06/16/2004	4	22	26
OS	%	KW-DUP-01-0504DL2	WU1529-4DL2	NM	05/22/2004	05/26/2004	06/18/2004	4	23	27

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	%	G01-MW-12-0504DL2	WU1503-5DL2	NM	05/20/2004	05/24/2004	06/17/2004	4	24	28
OS	%	A824-MW-03-0504	WU1519-4	NM	05/21/2004	05/25/2004	06/16/2004	4	22	26
OS	%	G01-MW05-0504	WU1529-7	NM	05/24/2004	05/26/2004	06/16/2004	2	21	23
OS	%	A824-MW-02-0504	WU1519-3	NM	05/21/2004	05/25/2004	06/16/2004	4	22	26
OS	%	B01-MW-01-0504	WU1503-1	NM	05/20/2004	05/24/2004	06/15/2004	4	22	26
OS	%	B01-MW-03-0504	WU1503-2	NM	05/20/2004	05/24/2004	06/15/2004	4	22	26
OS	%	FC-MW-05-0504	WU1529-1	NM	05/22/2004	05/26/2004	06/16/2004	4	21	25
OS	%	FC-MW-22-0504	WU1529-3	NM	05/22/2004	05/26/2004	06/16/2004	4	21	25
OS	%	FC-MW-22-0504DL2	WU1529-3DL2	NM	05/22/2004	05/26/2004	06/18/2004	4	23	27
OS	%	G01-MW02-0504	WU1529-5	NM	05/24/2004	05/26/2004	06/16/2004	2	21	23
OS	%	G01-MW04-0504	WU1529-6	NM	05/24/2004	05/26/2004	06/16/2004	2	21	23
OS	%	A824-MW-01-0504	WU1519-2	NM	05/21/2004	05/25/2004	06/16/2004	4	22	26
OS	%	FC-MW-06-0504	WU1529-2	NM	05/22/2004	05/26/2004	06/16/2004	4	21	25
OS	UG/L	KW-DUP-03-0504	WU1519-5	NM	05/21/2004	05/25/2004	06/16/2004	4	22	26
OS	UG/L	G01-MW-10-0504DL2	WU1503-4DL2	NM	05/20/2004	05/24/2004	06/18/2004	4	25	29
OS	UG/L	G01-MW11-0504	WU1529-8	NM	05/24/2004	05/26/2004	06/16/2004	2	21	23
OS	UG/L	G01-MW11-0504DL2	WU1529-8DL2	NM	05/24/2004	05/26/2004	06/18/2004	2	23	25
OS	UG/L	G01-MW-12-0504	WU1503-5	NM	05/20/2004	05/24/2004	06/16/2004	4	23	27

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	UG/L	G01-MW-12-0504DL2	WU1503-5DL2	NM	05/20/2004	05/24/2004	06/17/2004	4	24	28
OS	UG/L	RR-MW-06-0504RA	WU1519-1RA	NM	05/21/2004	05/25/2004	06/16/2004	4	22	26
OS	UG/L	KW-DUP-01-0504DL2	WU1529-4DL2	NM	05/22/2004	05/26/2004	06/18/2004	4	23	27
OS	UG/L	G01-MW05-0504DL2	WU1529-7DL2	NM	05/24/2004	05/26/2004	06/18/2004	2	23	25
OS	UG/L	G01-MW05-0504	WU1529-7	NM	05/24/2004	05/26/2004	06/16/2004	2	21	23
OS	UG/L	KW-DUP-01-0504	WU1529-4	NM	05/22/2004	05/26/2004	06/16/2004	4	21	25
OS	UG/L	B01-MW-03-0504	WU1503-2	NM	05/20/2004	05/24/2004	06/15/2004	4	22	26
OS	UG/L	G01-MW-10-0504	WU1503-4	NM	05/20/2004	05/24/2004	06/16/2004	4	23	27
OS	UG/L	G01-MW04-0504	WU1529-6	NM	05/24/2004	05/26/2004	06/16/2004	2	21	23
OS	UG/L	A824-MW-02-0504	WU1519-3	NM	05/21/2004	05/25/2004	06/16/2004	4	22	26
OS	UG/L	B01-MW-01-0504	WU1503-1	NM	05/20/2004	05/24/2004	06/15/2004	4	22	26
OS	UG/L	A824-MW-01-0504	WU1519-2	NM	05/21/2004	05/25/2004	06/16/2004	4	22	26
OS	UG/L	FC-MW-05-0504	WU1529-1	NM	05/22/2004	05/26/2004	06/16/2004	4	21	25
OS	UG/L	FC-MW-06-0504	WU1529-2	NM	05/22/2004	05/26/2004	06/16/2004	4	21	25
OS	UG/L	FC-MW-22-0504	WU1529-3	NM	05/22/2004	05/26/2004	06/16/2004	4	21	25
OS	UG/L	FC-MW-22-0504DL2	WU1529-3DL2	NM	05/22/2004	05/26/2004	06/18/2004	4	23	27
OS	UG/L	G01-MW02-0504	WU1529-5	NM	05/24/2004	05/26/2004	06/16/2004	2	21	23
OS	UG/L	G01-MW-03-0504	WU1503-3	NM	05/20/2004	05/24/2004	06/16/2004	4	23	27

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	UG/L	A824-MW-03-0504	WU1519-4	NM	05/21/2004	05/25/2004	06/16/2004	4	22	26
OV	%	FC-MW-05-0504	WU1529-1RE	NM	05/22/2004	06/03/2004	06/03/2004	12	0	12
OV	%	FC-MW-22-0504	WU1529-3	NM	05/22/2004	06/02/2004	06/02/2004	11	0	11
OV	%	G01-MW02-0504	WU1529-5RE	NM	05/24/2004	06/17/2004	06/17/2004	24	0	24
OV	%	FC-MW-22-0504	WU1529-3	NM	05/22/2004	05/28/2004	05/28/2004	6	0	6
OV	%	FC-MW-06-0504	WU1529-2RE	NM	05/22/2004	06/03/2004	06/04/2004	12	1	13
OV	%	FC-MW-06-0504	WU1529-2	NM	05/22/2004	05/28/2004	05/28/2004	6	0	6
OV	%	FC-MW-05-0504	WU1529-1	NM	05/22/2004	05/28/2004	05/28/2004	6	0	6
OV	%	A824-MW-03-0504	WU1519-4	NM	05/21/2004	06/02/2004	06/02/2004	12	0	12
OV	%	A824-MW-03-0504	WU1519-4	NM	05/21/2004	05/28/2004	05/28/2004	7	0	7
OV	%	A824-MW-02-0504	WU1519-3	NM	05/21/2004	06/02/2004	06/02/2004	12	0	12
OV	%	A824-MW-02-0504	WU1519-3	NM	05/21/2004	05/28/2004	05/28/2004	7	0	7
OV	%	A824-MW-01-0504	WU1519-2	NM	05/21/2004	05/28/2004	05/28/2004	7	0	7
OV	%	G01-MW02-0504	WU1529-5	NM	05/24/2004	06/02/2004	06/02/2004	9	0	9
OV	%	A824-MW-01-0504	WU1519-2RE	NM	05/21/2004	06/03/2004	06/03/2004	13	0	13
OV	%	KWTB-052104	WU1519-6	NM	05/21/2004	05/28/2004	05/28/2004	7	0	7
OV	%	G01-MW02-0504	WU1529-5	NM	05/24/2004	05/28/2004	05/28/2004	4	0	4
OV	%	RR-MW-06-0504	WU1519-1RE	NM	05/21/2004	06/03/2004	06/03/2004	13	0	13

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	KWTB-052404	WU1529-9	NM	05/22/2004	06/01/2004	06/01/2004	10	0	10
OV	%	KW-DUP-03-0504	WU1519-5	NM	05/21/2004	06/02/2004	06/02/2004	12	0	12
OV	%	KW-DUP-03-0504	WU1519-5	NM	05/21/2004	05/28/2004	05/28/2004	7	0	7
OV	%	KW-DUP-01-0504	WU1529-4	NM	05/22/2004	06/02/2004	06/02/2004	11	0	11
OV	%	KW-DUP-01-0504	WU1529-4	NM	05/22/2004	05/28/2004	05/28/2004	6	0	6
OV	%	G01-MW-12-0504	WU1503-5RE	NM	05/20/2004	06/03/2004	06/03/2004	14	0	14
OV	%	G01-MW-12-0504	WU1503-5	NM	05/20/2004	06/02/2004	06/02/2004	13	0	13
OV	%	G01-MW-12-0504	WU1503-5	NM	05/20/2004	05/24/2004	05/24/2004	4	0	4
OV	%	G01-MW04-0504	WU1529-6	NM	05/24/2004	06/01/2004	06/01/2004	8	0	8
OV	%	G01-MW-03-0504	WU1503-3	NM	05/20/2004	05/24/2004	05/24/2004	4	0	4
OV	%	RR-MW-06-0504	WU1519-1	NM	05/21/2004	05/28/2004	05/28/2004	7	0	7
OV	%	G01-MW11-0504	WU1529-8	NM	05/24/2004	06/02/2004	06/03/2004	9	1	10
OV	%	G01-MW-03-0504	WU1503-3	NM	05/20/2004	06/02/2004	06/02/2004	13	0	13
OV	%	G01-MW04-0504	WU1529-6RE	NM	05/24/2004	06/03/2004	06/03/2004	10	0	10
OV	%	G01-MW05-0504	WU1529-7	NM	05/24/2004	06/01/2004	06/01/2004	8	0	8
OV	%	G01-MW05-0504	WU1529-7	NM	05/24/2004	06/02/2004	06/03/2004	9	1	10
OV	%	G01-MW-10-0504	WU1503-4	NM	05/20/2004	05/24/2004	05/24/2004	4	0	4
OV	%	G01-MW-10-0504	WU1503-4	NM	05/20/2004	06/02/2004	06/02/2004	13	0	13

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	G01-MW11-0504	WU1529-8	NM	05/24/2004	06/01/2004	06/01/2004	8	0	8
OV	UG/L	G01-MW05-0504	WU1529-7	NM	05/24/2004	06/01/2004	06/01/2004	8	0	8
OV	UG/L	KWTB-052404	WU1529-9	NM	05/22/2004	06/01/2004	06/01/2004	10	0	10
OV	UG/L	G01-MW-12-0504	WU1503-5	NM	05/20/2004	05/24/2004	05/24/2004	4	0	4
OV	UG/L	G01-MW-10-0504	WU1503-4	NM	05/20/2004	05/24/2004	05/24/2004	4	0	4
OV	UG/L	G01-MW-10-0504	WU1503-4	NM	05/20/2004	06/02/2004	06/02/2004	13	0	13
OV	UG/L	G01-MW11-0504	WU1529-8	NM	05/24/2004	06/01/2004	06/01/2004	8	0	8
OV	UG/L	G01-MW11-0504	WU1529-8	NM	05/24/2004	06/02/2004	06/03/2004	9	1	10
OV	UG/L	G01-MW05-0504	WU1529-7	NM	05/24/2004	06/02/2004	06/03/2004	9	1	10
OV	UG/L	G01-MW-12-0504	WU1503-5	NM	05/20/2004	06/02/2004	06/02/2004	13	0	13
OV	UG/L	G01-MW-12-0504	WU1503-5RE	NM	05/20/2004	06/03/2004	06/03/2004	14	0	14
OV	UG/L	KW-DUP-01-0504	WU1529-4	NM	05/22/2004	06/02/2004	06/02/2004	11	0	11
OV	UG/L	KWTB-052104	WU1519-6	NM	05/21/2004	05/28/2004	05/28/2004	7	0	7
OV	UG/L	RR-MW-06-0504	WU1519-1	NM	05/21/2004	05/28/2004	05/28/2004	7	0	7
OV	UG/L	RR-MW-06-0504	WU1519-1RE	NM	05/21/2004	06/03/2004	06/03/2004	13	0	13
OV	UG/L	G01-MW04-0504	WU1529-6RE	NM	05/24/2004	06/03/2004	06/03/2004	10	0	10
OV	UG/L	KW-DUP-01-0504	WU1529-4	NM	05/22/2004	05/28/2004	05/28/2004	6	0	6
OV	UG/L	KW-DUP-03-0504	WU1519-5	NM	05/21/2004	06/02/2004	06/02/2004	12	0	12

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	UG/L	A824-MW-02-0504	WU1519-3	NM	05/21/2004	06/02/2004	06/02/2004	12	0	12
OV	UG/L	G01-MW04-0504	WU1529-6	NM	05/24/2004	06/01/2004	06/01/2004	8	0	8
OV	UG/L	A824-MW-01-0504	WU1519-2	NM	05/21/2004	05/28/2004	05/28/2004	7	0	7
OV	UG/L	KW-DUP-03-0504	WU1519-5	NM	05/21/2004	05/28/2004	05/28/2004	7	0	7
OV	UG/L	A824-MW-02-0504	WU1519-3	NM	05/21/2004	05/28/2004	05/28/2004	7	0	7
OV	UG/L	A824-MW-03-0504	WU1519-4	NM	05/21/2004	05/28/2004	05/28/2004	7	0	7
OV	UG/L	A824-MW-03-0504	WU1519-4	NM	05/21/2004	06/02/2004	06/02/2004	12	0	12
OV	UG/L	FC-MW-05-0504	WU1529-1	NM	05/22/2004	05/28/2004	05/28/2004	6	0	6
OV	UG/L	FC-MW-05-0504	WU1529-1RE	NM	05/22/2004	06/03/2004	06/03/2004	12	0	12
OV	UG/L	G01-MW02-0504	WU1529-5	NM	05/24/2004	06/02/2004	06/02/2004	9	0	9
OV	UG/L	A824-MW-01-0504	WU1519-2RE	NM	05/21/2004	06/03/2004	06/03/2004	13	0	13
OV	UG/L	FC-MW-06-0504	WU1529-2	NM	05/22/2004	05/28/2004	05/28/2004	6	0	6
OV	UG/L	G01-MW02-0504	WU1529-5RE	NM	05/24/2004	06/17/2004	06/17/2004	24	0	24
OV	UG/L	G01-MW02-0504	WU1529-5	NM	05/24/2004	05/28/2004	05/28/2004	4	0	4
OV	UG/L	FC-MW-22-0504	WU1529-3	NM	05/22/2004	06/02/2004	06/02/2004	11	0	11
OV	UG/L	FC-MW-22-0504	WU1529-3	NM	05/22/2004	05/28/2004	05/28/2004	6	0	6
OV	UG/L	G01-MW-03-0504	WU1503-3	NM	05/20/2004	06/02/2004	06/02/2004	13	0	13
OV	UG/L	FC-MW-06-0504	WU1529-2RE	NM	05/22/2004	06/03/2004	06/04/2004	12	1	13

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	UG/L	G01-MW-03-0504	WU1503-3	NM	05/20/2004	05/24/2004	05/24/2004	4	0	4
METH	UG/ML	RR-MW-06-0504	0405424B-04A	NM	05/21/2004	05/28/2004	05/28/2004	7	0	7
METH	UG/ML	A824-MW-03-0504	0405424B-07A	NM	05/21/2004	05/28/2004	05/28/2004	7	0	7
METH	UG/ML	G01-MW-10-0504	0405424A-02A	NM	05/20/2004	05/28/2004	05/28/2004	8	0	8
METH	UG/ML	KW-DUP-03-0504	0405424B-08A	NM	05/21/2004	05/28/2004	05/28/2004	7	0	7
METH	UG/ML	G01-MW-12-0504	0405424A-03A	NM	05/20/2004	05/28/2004	05/28/2004	8	0	8
METH	UG/ML	G01-MW11-0504	0405496-04A	NM	05/24/2004	06/01/2004	06/01/2004	8	0	8
METH	UG/ML	G01-MW05-0504	0405496-03A	NM	05/24/2004	06/01/2004	06/01/2004	8	0	8
METH	UG/ML	G01-MW04-0504	0405496-02A	NM	05/24/2004	06/01/2004	06/01/2004	8	0	8
METH	UG/ML	G01-MW02-0504	0405496-01A	NM	05/24/2004	06/01/2004	06/01/2004	8	0	8
METH	UG/ML	A824-MW-02-0504	0405424B-06A	NM	05/21/2004	05/28/2004	05/28/2004	7	0	7
METH	UG/ML	A824-MW-01-0504	0405424B-05A	NM	05/21/2004	05/28/2004	05/28/2004	7	0	7
METH	UG/ML	G01-MW-03-0504	0405424A-01A	NM	05/20/2004	05/28/2004	05/28/2004	8	0	8
TPH	%	G01-MW11-0504	WU1529-8	NM	05/24/2004	05/26/2004	06/20/2004	2	25	27
TPH	%	RR-MW-06-0504	WU1519-1	NM	05/21/2004	05/25/2004	06/19/2004	4	25	29
TPH	%	A824-MW-03-0504	WU1519-4	NM	05/21/2004	05/25/2004	06/19/2004	4	25	29
TPH	%	KW-DUP-01-0504	WU1529-4	NM	05/22/2004	05/26/2004	06/19/2004	4	24	28
TPH	%	KW-DUP-03-0504	WU1519-5	NM	05/21/2004	05/25/2004	06/19/2004	4	25	29

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TPH	%	A824-MW-02-0504	WU1519-3	NM	05/21/2004	05/25/2004	06/19/2004	4	25	29
TPH	%	FC-MW-05-0504	WU1529-1	NM	05/22/2004	05/26/2004	06/19/2004	4	24	28
TPH	%	FC-MW-06-0504	WU1529-2	NM	05/22/2004	05/26/2004	06/19/2004	4	24	28
TPH	%	FC-MW-22-0504	WU1529-3	NM	05/22/2004	05/26/2004	06/19/2004	4	24	28
TPH	%	G01-MW02-0504	WU1529-5	NM	05/24/2004	05/26/2004	06/19/2004	2	24	26
TPH	%	G01-MW-03-0504	WU1503-3	NM	05/20/2004	05/25/2004	06/19/2004	5	25	30
TPH	%	G01-MW04-0504	WU1529-6	NM	05/24/2004	05/26/2004	06/20/2004	2	25	27
TPH	%	G01-MW05-0504	WU1529-7	NM	05/24/2004	05/26/2004	06/20/2004	2	25	27
TPH	%	G01-MW-10-0504	WU1503-4	NM	05/20/2004	05/25/2004	06/19/2004	5	25	30
TPH	%	G01-MW-12-0504	WU1503-5	NM	05/20/2004	05/25/2004	06/19/2004	5	25	30
TPH	%	A824-MW-01-0504	WU1519-2	NM	05/21/2004	05/25/2004	06/19/2004	4	25	29
TPH	UG/L	A824-MW-01-0504	WU1519-2	NM	05/21/2004	05/25/2004	06/19/2004	4	25	29
TPH	UG/L	G01-MW04-0504	WU1529-6	NM	05/24/2004	05/26/2004	06/20/2004	2	25	27
TPH	UG/L	KW-DUP-03-0504	WU1519-5	NM	05/21/2004	05/25/2004	06/19/2004	4	25	29
TPH	UG/L	KW-DUP-01-0504	WU1529-4	NM	05/22/2004	05/26/2004	06/19/2004	4	24	28
TPH	UG/L	G01-MW-12-0504	WU1503-5	NM	05/20/2004	05/25/2004	06/19/2004	5	25	30
TPH	UG/L	G01-MW11-0504	WU1529-8	NM	05/24/2004	05/26/2004	06/20/2004	2	25	27
TPH	UG/L	G01-MW-10-0504	WU1503-4	NM	05/20/2004	05/25/2004	06/19/2004	5	25	30

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TPH	UG/L	G01-MW05-0504	WU1529-7	NM	05/24/2004	05/26/2004	06/20/2004	2	25	27
TPH	UG/L	G01-MW-03-0504	WU1503-3	NM	05/20/2004	05/25/2004	06/19/2004	5	25	30
TPH	UG/L	G01-MW02-0504	WU1529-5	NM	05/24/2004	05/26/2004	06/19/2004	2	24	26
TPH	UG/L	FC-MW-22-0504	WU1529-3	NM	05/22/2004	05/26/2004	06/19/2004	4	24	28
TPH	UG/L	FC-MW-06-0504	WU1529-2	NM	05/22/2004	05/26/2004	06/19/2004	4	24	28
TPH	UG/L	FC-MW-05-0504	WU1529-1	NM	05/22/2004	05/26/2004	06/19/2004	4	24	28
TPH	UG/L	A824-MW-02-0504	WU1519-3	NM	05/21/2004	05/25/2004	06/19/2004	4	25	29
TPH	UG/L	RR-MW-06-0504	WU1519-1	NM	05/21/2004	05/25/2004	06/19/2004	4	25	29
TPH	UG/L	A824-MW-03-0504	WU1519-4	NM	05/21/2004	05/25/2004	06/19/2004	4	25	29

FIELD DUPLICATE PRECISION

ANALYTE	KW-DUP-01-0504	QUAL	FC-MW-22-0504	QUAL	RPD	DIFFERENCE
Toluene	0.7	J	0.6	J	15.38	0.1
Ethylbenzene	39		39		0.00	0
Total Xylenes	6		6		0.00	0
Naphthalene	220		190		14.63	30
2-Methylnaphthalene	67		50		29.06	17
1-Methylnaphthalene	32		28		13.33	4
Acenaphthene	0.2	U	0.079	J	86.74	0.121
TPH	2200		1800		20.00	400
ANALYTE	KW-DUP-03-0504	QUAL	A824-MW-01-0504	QUAL	RPD	DIFFERENCE
Methane	0.21		0.21		0.00	0

Katahdin
ANALYTICAL SERVICES

Cert. No. E87604

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NAS KEY WEST; SDG: CTO301/318-1
WU1503, WU1519, WU1529
TASK ORDER MANAGER: EMILY MCREE

Sample Receipt

The following samples were received on May 21, 22 and 25, 2004 and were logged in under Katahdin Analytical Services work order numbers WU1503, WU1519 and WU1529 for a hardcopy due date of June 18, 2004.

KATAHDIN Sample No.	TTNUS Sample Identification
WU1503-1	B01-MW-01-0504
WU1503-2	B01-MW-03-0504
WU1503-3	G01-MW-03-0504
WU1503-4	G01-MW-10-0504
WU1503-5	G01-MW-12-0504
WU1519-1	RR-MW-06-0504
WU1519-2	A824-MW-01-0504
WU1519-3	A824-MW-02-0504
WU1519-4	A824-MW-03-0504
WU1519-5	KW-DUP-03-0504
WU1519-6	KWTB-052104
WU1529-1	FC-MW-05-0504
WU1529-2	FC-MW-06-0504
WU1529-3	FC-MW-22-0504
WU1529-4	KW-DUP-01-0504
WU1529-5	G01-MW02-0504
WU1529-6	G01-MW04-0504
WU1529-7	G01-MW05-0504
WU1529-8	G01-MW11-0504
WU1529-9	KWTB-052404

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Organics Laboratory

The samples of SDG CTO301/318-1 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, Office of Solid Waste and Emergency Response, U.S. EPA, and/or Method for Determination of Petroleum Range Organics (Method #FL-PRO), Florida Department of Environmental Protection, November 1, 1995, for the specific methods listed below or on the Report of Analysis. Sample WU1519-1 was used for a matrix spike (MS) and matrix spike duplicate (MSD) sample per client's request. Some manual integrations may have been performed due to split peaks and/or corrected baselines. All have been flagged with a "M" (software-generated) on the pertinent quantitation report.

8260B Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The acceptance limits for the MS/MSD are for a short list of the spiked compounds. Katahdin standard operating procedure is not to take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory contaminants acetone and methylene chloride) in the LCS are outside of the QC limits.

One or more target analytes may have been detected above the MDL in some method blanks. Any of these analytes that were also detected in any of the associated samples were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

504 Analysis

Samples WU1503-5 and WU1529-5 had low recoveries for the surrogate TCX on both channels that were outside of the laboratory established acceptance limits. Samples WU1503-5 and WU1529-5 were reextracted with similar results. Sample WU1529-5RE was reextracted 9 days out of hold time. The results from both analyses are reported.

Samples WU1503-4 and WU1519-3 and 5 had low recoveries for the surrogate TCX on one channel. These recoveries were outside of the laboratory established acceptance limits. Since the recoveries on the confirmation channel were within the acceptance limits, the samples were not reanalyzed.

8100M-FLPRO Analysis

The laboratory control sample duplicate (LCSD) WG7803-3 and samples WU1529-3, 5 and 7 had low recoveries for the surrogate o-terphenyl, which were outside of the method acceptance limits. Since the recoveries for the second surrogate n-triacontane-D_{62} were within the method acceptance limits, the samples were not reanalyzed.

The calibration verification standards (CV) (files CUF2117, CUF2130 and CUF2136) had low responses for the hydrocarbon C-40, which resulted in %D's that were greater than 20%. Since the method requirement applies to only the PRO range responses, which were acceptable, the associated samples were not reanalyzed.

8270 SIM Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are nominal limits for the full list of spiked compounds. Katahdin standard operating procedure is not to take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory phthalate ester contaminants) in the LCS are outside of the QC limits.

The laboratory method blank WG7760-1RA had a high recovery for one surrogate which was outside the laboratory established acceptance limits. Since a high recovery indicates a high bias and there were no target analytes detected, the sample was not reanalyzed.

The laboratory method blank WG7805-1RA had a low recovery for one surrogate which was outside the laboratory established acceptance limits.

Sample WU1503-3 had a low recovery for one surrogate which was outside the laboratory established acceptance limits.

Samples WU1529-3DL2, 4DL2 and 8DL2 had responses for one or more internal standards which were low and outside the method acceptance limit of -50% to 100% of the response of the internal standard of the daily continuing calibration standard. Since the analyses of the undiluted samples had acceptable internal standard responses, the samples were not reanalyzed.

The initial calibration analyzed on the X instrument on 05/27/04 had %RSD values for several analytes that exceeded the method acceptance limit of 15%. For these analytes, a linear model was used for quantitation instead of an average response factor. The target analytes acenaphthylene, chrysene, indeno(1,2,3-cd)pyrene and dibenzo(a,h)anthracene failed the linear model in the initial calibration curve due to the correlation coefficient being less than the method acceptance criteria of 0.990. These compounds were calibrated using the average model.

The initial calibration analyzed on the X instrument on 06/15/04 had %RSD values for four analytes that exceeded the method acceptance limit of 15%. The target analytes benzo(b)fluoranthene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene and benzo(g,h,i)perylene also failed the linear model in the initial calibration curve due to the correlation coefficient being less than the method acceptance criteria of 0.990. These compounds were calibrated using the average model.

The laboratory control sample duplicate (WG7760-3RA) had several analytes with recoveries that were high and outside of the nominal laboratory acceptance limits. Since the associated LCS (WG7760-2RA) was acceptable, the LCSD was not reanalyzed.

The MS and MSD (WG7768-3RA and 4RA) had had several analytes with recoveries that were low and outside of the nominal laboratory acceptance limits. Since the associated LCS (WG7768-2) was acceptable, the MS/MSD were not reanalyzed.

There were no other protocol deviations or observations noted by the organic laboratory staff.

Metals Analysis

The samples of Katahdin SDG CTO301/318-1 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Aqueous Waste", SW-846, November 1986, Third Edition.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix Katahdin Sample Nos. WU1503-(3-5), WU1519-(1-5), and WU1529-(1-8) were digested for ICP analysis on 06/11/04 (QC Batch UF11ICW1) in accordance with USEPA Method 3010A. Katahdin Sample No. WU1519-1 was prepared with duplicate matrix-spiked aliquots.

ICP analyses of SDG CTO301/318-1 sample digestates were performed using a Thermo Jarrell Ash (TJA) Trace ICP spectrometer. All samples were analyzed within holding times and all analytical run QC criteria were met, with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question with the following exception:

Matrix QC Summary

One or both of the matrix-spiked aliquots of Katahdin Sample No. WU1519-1 was within the laboratory's acceptance criteria (75% - 125% recovery of the added element, if the native concentration is less than four times the amount added) for lead.

The matrix spike duplicate analysis of Katahdin Sample No. WU1519-1 was within the laboratory's acceptance limit (<20% relative difference between duplicate matrix spiked aliquots) for lead.

The serial dilution analyses of Katahdin Sample No. WU1519-1 was within the laboratory's ICP serial dilution acceptance limit (<10% difference between the original sample result and the result for a 5-fold dilution of the sample, if the result for the dilution is at least ten times the instrument detection limit) for lead.

Wet Chemistry Analysis

The samples of SDG CTO301/318-1 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for nitrate and sulfate were performed according "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, 1979 Revised 1983, U.S. EPA.

All Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limits (MDL). Measured concentrations that fall between the MDL and Katahdin's Practical Quantitation Limit (PQL) are flagged "J". Measured concentrations that are below the MDL are flagged "U" and reported as "U PQL", where "PQL" is the numerical value of the Practical Quantitation Limit.

All analyses were performed within analytical hold time. All quality control criteria were met with the following exceptions:

For Katahdin Sample Numbers WU1503-5 and WU1519-1, the matrix spike recovery (0%) for sulfate is outside the laboratory's acceptance criteria. In each of these cases, the sample concentration is more than ten times the amount of spike added.

No other deviations were noted by the Wet Chemistry group.

Subcontracted Analysis

Analyses for Methane/Ethane/Ethene were performed by a subcontract laboratory. Please refer to the section of the data package titled Subcontracted Data.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Deborah J. Nadeau 6.25.04

Deborah Nadeau
Operations Manager

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 3833 | PAGE 1 OF 1

PROJECT NO:	FACILITY: NAS KEY WEST	PROJECT MANAGER EMILY McREE	PHONE NUMBER (803)649-7963	LABORATORY NAME AND CONTACT: KATHADIN - ANDREA COLBY
SAMPLERS (SIGNATURE) Gary Bragan Jr		FIELD OPERATIONS LEADER GARY BRAGANZA	PHONE NUMBER (561)302-4437	ADDRESS 340 COUNTY ROAD NO.5
		CARRIER/WAYBILL NUMBER FED EX / 8425 8908 8781		CITY, STATE WESTBROOK, ME

STANDARD TAT ☑
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2004	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: PAHs	PPL VOH's, BTEX, MTBE	TRPH	EDB	NITRATE + SULFATE	METHANE	LEAD	COMMENTS
5/20	9:20	B01-MW-01-0504	MW-01			GW	G	2			X							
	9:30	B01-MW-03-0504	MW-03	~~9.90~~				2			X							
	13:45	G01-MW-03-0504	G01-MW03					13			X	X	X	X	X	X	X	
	15:25	G01-MW-10-0504	G01-MW10					13			X	X	X	X	X	X	X	
	14:40	G01-MW-12-0504	G01-MW12					13			X	X	X	X	X	X	X	

1. RELINQUISHED BY Gary Bragan Jr	DATE 5/20/04	TIME 17:30	1. RECEIVED BY	DATE 5/20/04	TIME 0905
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

900003

WW1514

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 3834 | **PAGE** 1 **OF** 1

PROJECT NO: N4779	**FACILITY:** NAS KEY WEST	**PROJECT MANAGER** EMILY McREE	**PHONE NUMBER** (803) 649-7963	**LABORATORY NAME AND CONTACT:** KATHADIN - ANDREA COLBY
SAMPLERS (SIGNATURE) Gary Braganza		**FIELD OPERATIONS LEADER** GARY BRAGANZA	**PHONE NUMBER** (561) 302-4137	**ADDRESS** 340 COUNTY ROAD No. 5
		CARRIER/WAYBILL NUMBER FEDEX / 8425 8908 8792		**CITY, STATE** WESTBROOK, ME

STANDARD TAT ☑
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2004	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: PPL VOHs, BTEX, MTBE	PAH's	TRPH	EDB	LEAD	NITRATE + SULFATE	METHANE		COMMENTS
5/21	10:35	RR-MW-06-0504	RR-MW-06			GW	G	37			X	X	X	X	X	X	X		MS/MSD
	10:50	A824-MW-01-0504	A824-MW-01					13			X	X	X	X	X	X	X		
	13:20	A824-MW-02-0504	A824-MW-02					13			X	X	X	X	X	X	X		
	13:05	A824-MW-03-0504	A824-MW-03					13			X	X	X	X	X	X	X		
↓		KW-DUP-03-0504				↓		13			X	X	X	X	X	X	X		
		KWTB-052104						2											TRIP BLANK

1. RELINQUISHED BY Gary Braganza	DATE 5/21/04	TIME	1. RECEIVED BY Fed Ex	DATE	TIME	
2. RELINQUISHED BY Fed Ex	DATE	TIME	2. RECEIVED BY G. Brewer	DATE 05 22 04	TIME 10:20	
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME	

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

010017

WW1529

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 3706 | **PAGE** 1 **OF** 1

PROJECT NO: N4779	**FACILITY:** NAS KEY WEST	**PROJECT MANAGER** EMILY McKEE	**PHONE NUMBER** (803) 649-7963	**LABORATORY NAME AND CONTACT:** KATHADIN - ANDREA COLBY
SAMPLERS (SIGNATURE) Gary Braganza		**FIELD OPERATIONS LEADER** GARY BRAGANZA	**PHONE NUMBER** (561) 302-4137	**ADDRESS** 340 COUNTY ROAD No. 5
		CARRIER/WAYBILL NUMBER FEDEX / 8425 8908 8807		**CITY, STATE** WESTBROOK, ME

STANDARD TAT ☑
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2004)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: PPL VOA's + BTEX + MTBE	PAHs	TRPH	EDB	LEAD	NITRATE + SULFATE	METHANE	COMMENTS
									G	G	G	G	P	P	G			
5/22	10:15	FC-MW-05-0504	FC-MW-05			GW	G	10	X	X	X	X	X					
	12:15	FC-MW-06-0504	FC-MW-06					10	X	X	X	X	X					
	10:30	FC-MW-22-0504	FCMW-22					10	X	X	X	X	X					
		KW-DUP-01-0504						10	X	X	X	X	X					
5/24	14:00	G01-MW02-0504	G01-MW-02					13	X	X	X	X	X	X	X			
	09:40	G01-MW04-0504	G01-MW-04					13	X	X	X	X	X	X	X			
	13:35	G01-MW05-0504	G01-MW-05					13	X	X	X	X	X	X	X			
	9:15	G01-MW11-0504	G01-MW-11					13	X	X	X	X	X	X	X			
		KWTB-052404						2										

1. RELINQUISHED BY Gary Braganza	DATE 5/24/04	TIME	1. RECEIVED BY	DATE 5/25/04	TIME 0910
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

810000

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WU1503

PAGE: 1 OF 2

COOLER: 1 OF 2

CLIENT: Tetra tech

PROJECT:

COC#
SDG#
DATE / TIME RECEIVED: 5/21/04 0915
DELIVERED BY: Fedex
RECEIVED BY: [illegible]
LIMS ENTRY BY: KJC
LIMS REVIEW BY / PM: KJC

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 7.7	
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT Y or N?	☐	☑	☐	COOLER TEMP (°C)= 5.3 ~~7.5~~ NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☑	☐	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED(1)?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP NFESC ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES(1): Affects Samples

MW01 MW12 ~~MW06~~ ~~824-MW03~~ 7-16-04
MW03 ~~824-MW03~~
MW10 ~~824-MW01~~ ~~824-MW~~ JAJ

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # W41503

PAGE: 2 OF 2

COOLER: 2 OF 2

CLIENT: Tetra tech

PROJECT:

COC#
SDG#
DATE / TIME RECEIVED: 5/21/04 0915
DELIVERED BY: Fedex
RECEIVED BY: AM
LIMS ENTRY BY: KC
LIMS REVIEW BY / PM: KC

	YES	NO	EXCEPTIONS
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE/ ICE PACKS PRESENT (Y or N)?	☑	☐	☐
7. VOLATILES FREE OF HEADSPACE?	☐	☐	☑
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐
11. SAMPLES PROPERLY PRESERVED(1)?	☑	☐	☐
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A

COMMENTS	RESOLUTION
TEMP BLANK TEMP (°C)= 12.5	
COOLER TEMP (°C)= 4.1 NA	
(RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP NFESC ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES(1):

(1) **Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.**

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

Cooler #1

LAB (WORK ORDER) # WU1519

PAGE: 1 OF 3

COOLER: 1 OF 3

COC#

SDG#

DATE / TIME RECEIVED: 05/22/04 11:20

DELIVERED BY: Fed Ex (pick up)

RECEIVED BY: George Brewer

LIMS ENTRY BY: [illegible]

LIMS REVIEW BY / PM: KC

CLIENT: Tetra Tech

PROJECT:

	YES	NO	EXCEPTIONS
1. CUSTODY SEALS PRESENT / INTACT?	☒	☐	☐
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☒	☐	☐
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☒	☐	☐
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☒	☐	☐
5. TEMPERATURE BLANKS PRESENT?	☒	☐	☐
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT (Y) or N?	☐	☒	☐
7. VOLATILES FREE OF HEADSPACE?	☐	☐	☑
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A

COMMENTS	RESOLUTION

TEMP BLANK TEMP (°C)= 1.8°

COOLER TEMP (°C)= ~~1.8~~ 052204 NA

(RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]: Received 1 of 2 bottles for PAH of sample RR-MW-06 broken

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG7858-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: S1408 Lab Sample ID: WG7858-2

Date Analyzed: 05/28/04 Time Analyzed: 1037

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-S

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG7858-LCS	WG7858-1	S1406	05/28/04	0919
02	KWTB-052104	WU1519-6	S1410	05/28/04	1153
03	RR-MW-06-0504	WU1519-1	S1411	05/28/04	1228
04	A824-MW-01-0504	WU1519-2	S1412	05/28/04	1303
05	A824-MW-02-0504	WU1519-3	S1413	05/28/04	1338
06	A824-MW-03-0504	WU1519-4	S1414	05/28/04	1413
07	KW-DUP-03-0504	WU1519-5	S1415	05/28/04	1448
08	RR-MW-06-0504MS	WG7858-3	S1421	05/28/04	1819
09	RR-MW-06-0504MSD	WG7858-4	S1422	05/28/04	1854
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COMMENTS:

Katahdin Analytical Services 1000004

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG7754-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: Z1632 Lab Sample ID: WG7754-2

Date Analyzed: 05/24/04 Time Analyzed: 1058

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-Z

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG7754-LCS	WG7754-1	Z1630	05/24/04	0939
02	G01-MW-03-0504	WU1503-3	Z1641	05/24/04	1632
03	G01-MW-10-0504	WU1503-4	Z1642	05/24/04	1710
04	G01-MW-12-0504	WU1503-5	Z1643	05/24/04	1747
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COMMENTS:

Katahdin Analytical Services 1000005

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG7857-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: Z1709 Lab Sample ID: WG7857-2

Date Analyzed: 05/28/04 Time Analyzed: 0931

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-Z

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG7857-LCS	WG7857-1	Z1707	05/28/04	0815
02	FC-MW-05-0504	WU1529-1	Z1718	05/28/04	1510
03	FC-MW-06-0504	WU1529-2	Z1719	05/28/04	1548
04	FC-MW-22-0504	WU1529-3	Z1720	05/28/04	1625
05	KW-DUP-01-0504	WU1529-4	Z1721	05/28/04	1703
06	G01-MW02-0504	WU1529-5	Z1722	05/28/04	1739
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COMMENTS:

Katahdin Analytical Services 1000006

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG7892-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: Z1730 Lab Sample ID: WG7892-2

Date Analyzed: 06/01/04 Time Analyzed: 1024

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-Z

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG7892-LCS	WG7892-1	Z1728	06/01/04	0909
02	KWTB-052404	WU1529-9	Z1731	06/01/04	1104
03	G01-MW04-0504	WU1529-6	Z1734	06/01/04	1255
04	G01-MW05-0504	WU1529-7	Z1735	06/01/04	1410
05	G01-MW11-0504	WU1529-8	Z1736	06/01/04	1446
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COMMENTS:

Katahdin Analytical Services 1000007

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 05/28/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WG7858-2
Client ID: WG7858-Blank
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7858
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	1	1.0	1	1	0.6
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.2
74-83-9	Bromomethane	U	1	1.0	1	1	0.6
75-00-3	Chloroethane	U	1	1.0	1	1	0.9
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	J	1	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		104%				
17060-07-0	1,2-Dichloroethane-D4		113%				
2037-26-5	Toluene-D8		96%				
460-00-4	P-Bromofluorobenzene		97%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 05/24/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WG7754-2
Client ID: WG7754-Blank
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7754
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	1	1.0	1	1	0.6
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.2
74-83-9	Bromomethane	U	1	1.0	1	1	0.6
75-00-3	Chloroethane	U	1	1.0	1	1	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		109%				
17060-07-0	1,2-Dichloroethane-D4		102%				
2037-26-5	Toluene-D8		101%				
460-00-4	P-Bromofluorobenzene		94%				

Katahdin Analytical Services 1000009

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 05/28/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WG7857-2
Client ID: WG7857-Blank
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7857
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	1	1.0	1	1	0.6
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.2
74-83-9	Bromomethane	U	1	1.0	1	1	0.6
75-00-3	Chloroethane	U	1	1.0	1	1	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	J	1	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		104%				
17060-07-0	1,2-Dichloroethane-D4		97%				
2037-26-5	Toluene-D8		103%				
460-00-4	P-Bromofluorobenzene		96%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/10/2004
Matrix: WATER
% Solids: NA

Lab ID: WG7892-2
Client ID: WG7892-Blank
SDG: CTO301318-1
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	1	1.0	1	1	0.6
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.2
74-83-9	Bromomethane	U	1	1.0	1	1	0.6
75-00-3	Chloroethane	U	1	1.0	1	1	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		102%				
17060-07-0	1,2-Dichloroethane-D4		99%				
2037-26-5	Toluene-D8		101%				
460-00-4	P-Bromofluorobenzene		94%				

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES, Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 DBF#	SMC2 DCA#	SMC3 TOL#	SMC4 BFB#	TOT OUT
01	WG7754-LCS	WG7754-1	100	92	98	92	0
02	WG7754-BLANK	WG7754-2	109	102	101	94	0
03	G01-MW-03-0504	WU1503-3	110	103	102	89	0
04	G01-MW-10-0504	WU1503-4	107	103	104	90	0
05	G01-MW-12-0504	WU1503-5	109	103	105	98	0
06	WG7857-LCS	WG7857-1	98	93	100	98	0
07	WG7858-LCS	WG7858-1	102	107	100	99	0
08	WG7857-BLANK	WG7857-2	104	97	103	96	0
09	WG7858-BLANK	WG7858-2	104	113	96	97	0
10	KWTB-052104	WU1519-6	98	105	97	99	0
11	RR-MW-06-0504	WU1519-1	96	108	95	98	0
12	A824-MW-01-0504	WU1519-2	94	106	97	97	0
13	A824-MW-02-0504	WU1519-3	105	116	96	98	0
14	A824-MW-03-0504	WU1519-4	104	118	96	99	0
15	KW-DUP-03-0504	WU1519-5	104	116	97	101	0
16	FC-MW-05-0504	WU1529-1	104	103	103	96	0
17	FC-MW-06-0504	WU1529-2	104	105	104	98	0
18	FC-MW-22-0504	WU1529-3	99	106	108	102	0
19	KW-DUP-01-0504	WU1529-4	100	101	106	98	0
20	G01-MW02-0504	WU1529-5	101	98	100	93	0
21	RR-MW-06-0504MS	WG7858-3	103	108	96	102	0
22	RR-MW-06-0504MSD	WG7858-4	98	106	97	102	0
23	WG7892-LCS	WG7892-1	99	95	101	96	0
24	WG7892-BLANK	WG7892-2	102	99	101	94	0
25	KWTB-052404	WU1529-9	102	101	104	99	0
26	G01-MW04-0504	WU1529-6	104	105	104	98	0
27	G01-MW05-0504	WU1529-7	105	105	104	97	0
28	G01-MW11-0504	WU1529-8	106	104	104	99	0

		QC LIMITS
SMC1 (DBF)	= Dibromofluoromethane	(76-118)
SMC2 (DCA)	= 1,2-Dichloroethane-D4	(76-119)
SMC3 (TOL)	= Toluene-D8	(68-122)
SMC4 (BFB)	= P-Bromofluorobenzene	(56-119)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Katahdin Analytical Services 1000003

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: SB676 BFB Injection Date: 05/11/04

Instrument ID: GCMS-S BFB Injection Time: 1005

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.0
75	30.0 - 60.0% of mass 95	51.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	66.3
175	5.0 - 9.0% of mass 174	5.7 (8.6)1
176	95.0 - 101.0% of mass 174	64.4 (97.2)1
177	5.0 - 9.0% of mass 176	4.5 (7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050S11A	S1134	05/11/04	1031
02		VSTD020S11A	S1135	05/11/04	1120
03		VSTD005S11A	S1136	05/11/04	1155
04		VSTD001S11A	S1137	05/11/04	1230
05		VSTD200S11A	S1138	05/11/04	1305
06		VSTD100S11A	S1139	05/11/04	1340
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 6

VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GCMS-S Calibration Date(s): 05/11/04 05/11/04

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1031 1340

LAB FILE ID: RF1: S1137 RF5: S1136 RF20: S1135

RF50: S1134 RF100: S1139 RF200: S1138

								COEFFICENTS		%RSD	MAX %RSD
COMPOUND	RF1	RF5	RF20	RF50	RF100	RF200	CURVE	A0	A1	OR R^2	OR R^2
Chloromethane	0.319	0.304	0.276	0.306	0.330	0.363	AVRG		0.31660626	9.218	15.000
Vinyl chloride	0.272	0.360	0.342	0.370	0.353	0.363	AVRG		0.34347716	10.527	15.000
Bromomethane	1471	8681	50007	178830	333980	662290	LINR	3.094e-002	4.43222728	0.99894	0.99000
Chloroethane	0.150	0.226	0.222	0.234	0.227	0.227	AVRG		0.21425936	14.712	15.000
1,1-Dichloroethene	2411	27824	98830	278820	566930	1078200	LINR	7.568e-003	2.72728969	0.99984	0.99000
Methylene Chloride	39519	65098	157370	351980	690220	1297600	LINR	-7.12e-002	2.31236392	0.99946	0.99000
trans-1,2-Dichloroethene	0.379	0.439	0.403	0.411	0.421	0.427	AVRG		0.41337103	5.072	15.000
Methyl tert-butyl ether	0.880	1.009	1.033	0.994	1.001	1.094	AVRG		1.00206838	6.967	15.000
1,1-Dichloroethane	0.610	0.662	0.654	0.681	0.696	0.674	AVRG		0.66306531	4.453	15.000
cis-1,2-Dichloroethene	0.409	0.449	0.442	0.460	0.477	0.471	AVRG		0.45159431	5.441	15.000
Chloroform	4758	58157	225000	607430	1227800	2335400	LINR	3.962e-003	1.26004467	0.99991	0.99000
Carbon Tetrachloride	0.285	0.352	0.342	0.378	0.375	0.361	AVRG		0.34877493	9.804	15.000
1,1,1-Trichloroethane	0.551	0.631	0.618	0.670	0.661	0.674	AVRG		0.63407105	7.316	15.000
Benzene	1.039	1.145	1.077	1.092	1.107	1.058	AVRG		1.08640571	3.442	15.000
1,2-Dichloroethane	0.419	0.415	0.418	0.418	0.408	0.424	AVRG		0.41719749	1.232	15.000
Trichloroethene	0.272	0.319	0.300	0.312	0.313	0.303	AVRG		0.30335346	5.497	15.000
1,2-Dichloropropane	0.263	0.247	0.248	0.250	0.256	0.247	AVRG		0.25173746	2.494	15.000
Bromodichloromethane	0.366	0.410	0.420	0.431	0.424	0.418	AVRG		0.41160719	5.653	15.000
cis-1,3-dichloropropene	0.430	0.444	0.474	0.475	0.472	0.464	AVRG		0.45975114	4.017	15.000
2-Chloroethylvinylether	1765	11350	49941	129430	266220	567680	LINR	4.482e-002	7.37766139	0.99801	0.99000
Toluene	0.675	0.768	0.706	0.719	0.713	0.690	AVRG		0.71183667	4.475	15.000
Tetrachloroethene	0.330	0.306	0.299	0.308	0.308	0.298	AVRG		0.30816056	3.769	15.000
trans-1,3-Dichloropropene	0.318	0.365	0.399	0.407	0.401	0.407	AVRG		0.38285163	9.268	15.000
1,1,2-Trichloroethane	0.196	0.208	0.211	0.196	0.201	0.205	AVRG		0.20270783	3.115	15.000
Dibromochloromethane	0.268	0.327	0.347	0.351	0.358	0.380	AVRG		0.33861160	11.348	15.000
Chlorobenzene	0.930	0.935	0.918	0.928	0.906	0.888	AVRG		0.91739603	1.904	15.000
Ethylbenzene	1.494	1.633	1.554	1.588	1.585	1.511	AVRG		1.56085522	3.332	15.000
Xylenes (total)	1.641	1.793	1.734	1.730	1.706	1.638	AVRG		1.70704942	3.478	15.000
m+p-Xylenes	0.556	0.602	0.580	0.580	0.574	0.545	AVRG		0.57304926	3.552	15.000
o-Xylene	0.529	0.587	0.573	0.569	0.558	0.548	AVRG		0.56095089	3.625	15.000
Bromoform	0.193	0.218	0.240	0.231	0.238	0.263	AVRG		0.23065882	10.237	15.000
1,1,2,2-Tetrachloroethane	0.575	0.611	0.644	0.581	0.597	0.652	AVRG		0.61005466	5.266	15.000
Dibromofluoromethane	0.447	0.427	0.420	0.432	0.442	0.446	AVRG		0.43579493	2.530	15.000
1,2-Dichloroethane-D4	0.540	0.495	0.478	0.508	0.515	0.534	AVRG		0.51153891	4.595	15.000
Toluene-D8	1.172	1.078	1.044	1.026	1.032	0.993	AVRG		1.05766351	5.895	15.000
P-Bromofluorobenzene	0.490	0.455	0.429	0.405	0.406	0.399	AVRG		0.43065567	8.364	15.000

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GCMS-S Calibration Date(s): 05/11/04 05/11/04

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 1031 1340

Average %RSD test result.

Calculate Average %RSD: 11.31039810
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: ZB809 BFB Injection Date: 05/11/04

Instrument ID: GCMS-Z BFB Injection Time: 0903

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.4
75	30.0 - 60.0% of mass 95	46.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	58.2
175	5.0 - 9.0% of mass 174	4.1 (7.0)1
176	95.0 - 101.0% of mass 174	55.9 (96.0)1
177	5.0 - 9.0% of mass 176	4.2 (7.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050Z11A	Z1451	05/11/04	0927
02		VSTD020Z11A	Z1452	05/11/04	1018
03		VSTD005Z11A	Z1453	05/11/04	1055
04		VSTD200Z11A	Z1456	05/11/04	1247
05		VSTD100Z11A	Z1457	05/11/04	1324
06		VSTD001Z11F	Z1461	05/11/04	1647
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Katahdin Analytical Services 1000027

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GCMS-Z Calibration Date(s): 05/11/04 05/11/04

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 0927 1647

LAB FILE ID: RF1: Z1461 RF5: Z1453 RF20: Z1452
RF50: Z1451 RF100: Z1457 RF200: Z1456

COMPOUND	RF1	RF5	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
Chloromethane	0.745	0.807	0.803	0.781	0.834	0.701	AVRG		0.77870977	6.186	15.000
Vinyl chloride	0.667	0.739	0.764	0.737	0.761	0.645	AVRG		0.71871448	7.000	15.000
Bromomethane	0.707	0.625	0.610	0.587	0.664	0.534	AVRG		0.62112284	9.714	15.000
Chloroethane	0.439	0.513	0.509	0.517	0.538	0.441	AVRG		0.49272426	8.552	15.000
1,1-Dichloroethene	0.482	0.507	0.603	0.550	0.617	0.529	AVRG		0.54788523	9.762	15.000
Methylene Chloride	13382	19760	59781	124540	252840	447260	LINR	-9.14e-002	1.44042200	0.99501	0.99000
trans-1,2-Dichloroethene	0.625	0.632	0.679	0.622	0.705	0.606	AVRG		0.64482227	5.928	15.000
Methyl tert-butyl ether	1.540	1.658	1.527	1.537	1.815	1.655	AVRG		1.62203940	6.900	15.000
1,1-Dichloroethane	1.041	1.175	1.121	1.107	1.234	1.144	AVRG		1.13709444	5.739	15.000
cis-1,2-Dichloroethene	0.530	0.565	0.597	0.564	0.604	0.576	AVRG		0.57273041	4.660	15.000
Chloroform	0.824	0.902	0.884	0.856	0.928	0.906	AVRG		0.88341283	4.272	15.000
Carbon Tetrachloride	0.273	0.258	0.300	0.306	0.303	0.305	AVRG		0.29065728	6.953	15.000
1,1,1-Trichloroethane	0.645	0.646	0.657	0.647	0.704	0.695	AVRG		0.66586224	3.992	15.000
Benzene	1.200	1.261	1.321	1.236	1.302	1.304	AVRG		1.27067823	3.687	15.000
1,2-Dichloroethane	0.376	0.424	0.393	0.397	0.413	0.436	AVRG		0.40664111	5.456	15.000
Trichloroethene	0.321	0.299	0.320	0.314	0.327	0.341	AVRG		0.32033480	4.383	15.000
1,2-Dichloropropane	0.363	0.358	0.350	0.359	0.376	0.373	AVRG		0.36314975	2.647	15.000
Bromodichloromethane	0.387	0.393	0.415	0.425	0.426	0.442	AVRG		0.41457386	5.078	15.000
cis-1,3-dichloropropene	0.394	0.478	0.523	0.537	0.556	0.574	AVRG		0.51039502	12.830	15.000
2-Chloroethylvinylether	794	5716	24250	64527	137640	298400	LINR	5.457e-002	3.64856107	0.99788	0.99000
Toluene	0.706	0.754	0.796	0.775	0.810	0.834	AVRG		0.77920593	5.783	15.000
Tetrachloroethene	0.271	0.231	0.251	0.258	0.259	0.265	AVRG		0.25593462	5.485	15.000
trans-1,3-Dichloropropene	1535	10376	46539	120450	252030	548280	LINR	5.014e-002	1.98834108	0.99796	0.99000
1,1,2-Trichloroethane	0.245	0.263	0.261	0.273	0.286	0.317	AVRG		0.27434475	9.142	15.000
Dibromochloromethane	0.252	0.338	0.338	0.372	0.378	0.374	AVRG		0.34199873	13.982	15.000
Chlorobenzene	0.977	0.936	0.966	0.953	0.989	1.025	AVRG		0.97440423	3.179	15.000
Ethylbenzene	1.737	1.571	1.650	1.684	1.794	1.839	AVRG		1.71234454	5.729	15.000
Xylenes (total)							AVRG				0.000
Bromoform	638	4555	20631	56701	123540	272640	LINR	4.592e-002	3.55793470	0.99901	0.99000
1,1,2,2-Tetrachloroethane	1.067	1.183	1.058	1.018	1.087	1.163	AVRG		1.09611600	5.857	15.000
m+p-Xylenes	0.602	0.571	0.594	0.610	0.668	0.709	AVRG		0.62582575	8.321	15.000
o-Xylene	0.540	0.535	0.544	0.580	0.608	0.620	AVRG		0.57134222	6.487	15.000
Dibromofluoromethane	0.580	0.611	0.552	0.499	0.564	0.539	AVRG		0.55750756	6.817	15.000
1,2-Dichloroethane-D4	0.700	0.702	0.567	0.512	0.620	0.630	AVRG		0.62182569	11.968	15.000
Toluene-D8	1.092	1.169	1.119	1.050	1.148	1.161	AVRG		1.12323215	4.086	15.000
P-Bromofluorobenzene	0.451	0.429	0.392	0.392	0.449	0.481	AVRG		0.43237064	8.131	15.000

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GCMS-Z Calibration Date(s): 05/11/04 05/11/04

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 0927 1647

Average %RSD test result.

Calculate Average %RSD: 10.27576160
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: ZB820 BFB Injection Date: 05/26/04

Instrument ID: GCMS-Z BFB Injection Time: 0814

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.7
75	30.0 - 60.0% of mass 95	40.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	74.5
175	5.0 - 9.0% of mass 174	5.7 (7.7)1
176	95.0 - 101.0% of mass 174	71.4 (95.9)1
177	5.0 - 9.0% of mass 176	4.6 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD200Z26A	Z1677	05/26/04	1242
02		VSTD050Z26A	Z1679	05/26/04	1358
03		VSTD020Z26A	Z1680	05/26/04	1435
04		VSTD005Z26A	Z1681	05/26/04	1512
05		VSTD001Z26A	Z1682	05/26/04	1550
06		VSTD100Z26A	Z1685	05/26/04	1742
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FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GCMS-Z Calibration Date(s): 05/26/04 05/26/04

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 0937 1742

LAB FILE ID: RF1: Z1682 RF5: Z1681 RF20: Z1680
RF50: Z1679 RF100: Z1685 RF200: Z1677

								COEFFICENTS			%RSD	MAX %RSD
COMPOUND	RF1	RF5	RF20	RF50	RF100	RF200	CURVE	A0	A1	A2	OR R^2	OR R^2
Chloromethane	0.477	0.418	0.457	0.460	0.482	0.485	AVRG		0.46311278		5.394	15.000
Vinyl chloride	0.439	0.398	0.447	0.484	0.475	0.486	AVRG		0.45488987		7.505	15.000
Bromomethane	0.210	0.212	0.257	0.272	0.297	0.269	AVRG		0.25299352		13.836	15.000
Chloroethane	2744	11974	50442	115500	213580	345280	2ORDR	3.079e-002	2.44789556	4.31158491	0.99848	0.99000
1,1-Dichloroethene	0.368	0.321	0.358	0.384	0.392	0.384	AVRG		0.36787155		7.026	15.000
Methylene Chloride	32429	41288	107890	231860	451840	910160	LINR	-8.9e-002	2.16168840		0.99903	0.99000
trans-1,2-Dichloroethene	0.403	0.378	0.438	0.466	0.457	0.442	AVRG		0.43071507		7.763	15.000
Methyl tert-butyl ether	1.097	0.976	1.172	1.220	1.198	1.119	AVRG		1.13035738		7.860	15.000
1,1-Dichloroethane	0.627	0.624	0.742	0.752	0.742	0.746	AVRG		0.70531902		8.800	15.000
cis-1,2-Dichloroethene	0.484	0.421	0.488	0.492	0.525	0.524	AVRG		0.48883790		7.739	15.000
Chloroform	0.686	0.622	0.733	0.757	0.783	0.746	AVRG		0.72129946		8.038	15.000
Carbon Tetrachloride	0.233	0.229	0.271	0.301	0.308	0.313	AVRG		0.27586335		13.626	15.000
1,1,1-Trichloroethane	0.477	0.444	0.534	0.568	0.583	0.561	AVRG		0.52789688		10.554	15.000
Benzene	1.085	1.001	1.148	1.215	1.199	1.192	AVRG		1.13992317		7.243	15.000
1,2-Dichloroethane	0.335	0.300	0.350	0.352	0.362	0.363	AVRG		0.34377280		6.827	15.000
Trichloroethene	0.257	0.237	0.269	0.286	0.280	0.280	AVRG		0.26816078		6.882	15.000
1,2-Dichloropropane	2847	18705	87990	216360	434660	902810	LINR	6.857e-003	3.27226982		0.99988	0.99000
Bromodichloromethane	0.301	0.280	0.346	0.358	0.370	0.362	AVRG		0.33620153		10.968	15.000
cis-1,3-dichloropropene	0.385	0.357	0.454	0.465	0.491	0.485	AVRG		0.43931393		12.606	15.000
2-Chloroethylvinylether	0.152	0.148	0.198	0.203	0.208	0.201	AVRG		0.18496729		14.925	15.000
Toluene	0.644	0.596	0.695	0.718	0.693	0.711	AVRG		0.67604963		6.977	15.000
Tetrachloroethene	0.264	0.239	0.252	0.276	0.275	0.292	AVRG		0.26633261		7.071	15.000
trans-1,3-Dichloropropene	0.306	0.295	0.382	0.399	0.409	0.403	AVRG		0.36567128		14.021	15.000
1,1,2-Trichloroethane	0.222	0.196	0.243	0.247	0.245	0.232	AVRG		0.23102947		8.417	15.000
Dibromochloromethane	3327	16831	88584	230360	476290	979990	LINR	2.905e-002	2.41730802		0.99963	0.99000
Chlorobenzene	0.908	0.798	0.925	0.930	0.931	0.924	AVRG		0.90277880		5.753	15.000
Ethylbenzene	1.401	1.248	1.445	1.490	1.467	1.443	AVRG		1.41558272		6.171	15.000
Xylenes (total)							AVRG					0.000
Bromoform	2444	11262	62471	169120	356740	738890	LINR	4.033e-002	3.20184981		0.99937	0.99000
1,1,2,2-Tetrachloroethane	1.026	0.808	0.994	1.018	0.985	0.946	AVRG		0.96320889		8.427	15.000
m+p-Xylenes	0.623	0.498	0.545	0.570	0.562	0.513	AVRG		0.55160504		8.083	15.000
o-Xylene	0.552	0.472	0.542	0.569	0.553	0.572	AVRG		0.54344391		6.744	15.000
Dibromofluoromethane	0.458	0.447	0.514	0.487	0.491	0.482	AVRG		0.47976998		5.027	15.000
1,2-Dichloroethane-D4	0.498	0.457	0.482	0.456	0.472	0.449	AVRG		0.46922069		3.925	15.000
Toluene-D8	0.989	0.950	1.060	1.009	1.001	0.996	AVRG		1.00067766		3.554	15.000
P-Bromofluorobenzene	0.432	0.351	0.394	0.379	0.371	0.368	AVRG		0.38250394		7.341	15.000

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: SB690 BFB Injection Date: 05/28/04

Instrument ID: GCMS-S BFB Injection Time: 0729

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.3
75	30.0 - 60.0% of mass 95	49.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	63.5
175	5.0 - 9.0% of mass 174	4.9 (7.7)1
176	95.0 - 101.0% of mass 174	60.9 (95.8)1
177	5.0 - 9.0% of mass 176	3.9 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050S28B	S1405	05/28/04	0840
02	WG7858-LCS	WG7858-1	S1406	05/28/04	0919
03	WG7858-BLANK	WG7858-2	S1408	05/28/04	1037
04	KWTB-052104	WU1519-6	S1410	05/28/04	1153
05	RR-MW-06-0504	WU1519-1	S1411	05/28/04	1228
06	A824-MW-01-0504	WU1519-2	S1412	05/28/04	1303
07	A824-MW-02-0504	WU1519-3	S1413	05/28/04	1338
08	A824-MW-03-0504	WU1519-4	S1414	05/28/04	1413
09	KW-DUP-03-0504	WU1519-5	S1415	05/28/04	1448
10	RR-MW-06-0504MS	WG7858-3	S1421	05/28/04	1819
11	RR-MW-06-0504MSD	WG7858-4	S1422	05/28/04	1854
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Katahdin Analytical Services 1000026

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GCMS-S Calibration Date: 05/28/04 Time: 0840

Lab File ID: S1405 Init. Calib. Date(s): 05/11/04 05/11/04

Init. Calib. Times: 1031 1340

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Chloromethane	0.3160000	0.2911800	0.2911800	0.1	-7.85		AVRG
Vinyl chloride	0.3430000	0.3187600	0.3187600	0.01	-7.07	20.00	AVRG
Bromomethane	54.312000	50.000000	0.2381000	0.01	8.62		LINR
Chloroethane	0.2140000	0.1926200	0.1926200	0.01	-9.99		AVRG
1,1-Dichloroethene	43.264000	50.000000	0.3145000	0.01	-13.47	20.00	LINR
Methylene Chloride	46.287000	50.000000	0.4311500	0.01	-7.43		LINR
trans-1,2-Dichloroethene	0.4130000	0.3736500	0.3736500	0.01	-9.53		AVRG
Methyl tert-butyl ether	1.0020000	1.1158000	1.1158000	0.01	11.36		AVRG
1,1-Dichloroethane	0.6630000	0.5984000	0.5984000	0.3	-9.74		AVRG
cis-1,2-Dichloroethene	0.4510000	0.4284400	0.4284400	0.01	-5.00		AVRG
Chloroform	50.152000	50.000000	0.7928900	0.01	0.30	20.00	LINR
Carbon Tetrachloride	0.3490000	0.4150300	0.4150300	0.01	18.92		AVRG
1,1,1-Trichloroethane	0.6340000	0.6645500	0.6645500	0.01	4.82		AVRG
Benzene	1.0860000	1.0463000	1.0463000	0.01	-3.66		AVRG
1,2-Dichloroethane	0.4170000	0.4903800	0.4903800	0.01	17.60		AVRG
Trichloroethene	0.3030000	0.3045000	0.3045000	0.01	0.50		AVRG
1,2-Dichloropropane	0.2520000	0.2369300	0.2369300	0.01	-5.98	20.00	AVRG
Bromodichloromethane	0.4120000	0.4639300	0.4639300	0.01	12.60		AVRG
cis-1,3-dichloropropene	0.4600000	0.4880700	0.4880700	0.01	6.10		AVRG
2-Chloroethylvinylether	44.426000	50.000000	0.1143600	0.01	-11.15		LINR
Toluene	0.7120000	0.6853600	0.6853600	0.01	-3.74	20.00	AVRG
Tetrachloroethene	0.3080000	0.2997900	0.2997900	0.01	-2.66		AVRG
trans-1,3-Dichloropropene	0.3830000	0.4413900	0.4413900	0.01	15.24		AVRG
1,1,2-Trichloroethane	0.2030000	0.2225000	0.2225000	0.01	9.60		AVRG
Dibromochloromethane	0.3380000	0.3840100	0.3840100	0.01	13.61		AVRG
Chlorobenzene	0.9180000	0.8729100	0.8729100	0.3	-4.91		AVRG
Ethylbenzene	1.5610000	1.5076000	1.5076000	0.01	-3.42	20.00	AVRG
Xylenes (total)	1.7070000	1.6205000	1.6205000	0.01	-5.07		AVRG
m+p-Xylenes	0.5730000	0.5405900	0.5405900	0.01	-5.66		AVRG

Katahdin Analytical Services 1000067

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GCMS-S Calibration Date: 05/28/04 Time: 0840

Lab File ID: S1405 Init. Calib. Date(s): 05/11/04 05/11/04

Init. Calib. Times: 1031 1340

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
o-Xylene	0.5610000	0.5393600	0.5393600	0.01	-3.86		AVRG
Bromoform	0.2300000	0.2834700	0.2834700	0.1	23.25		AVRG
1,1,2,2-Tetrachloroethane	0.6100000	0.6543100	0.6543100	0.3	7.26		AVRG
Dibromofluoromethane	0.4360000	0.4476600	0.4476600	0.01	2.67		AVRG
1,2-Dichloroethane-D4	0.5120000	0.5740600	0.5740600	0.01	12.12		AVRG
Toluene-D8	1.0580000	1.0318000	1.0318000	0.01	-2.48		AVRG
P-Bromofluorobenzene	0.4310000	0.4426500	0.4426500	0.01	2.70		AVRG

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: ZB818 BFB Injection Date: 05/24/04

Instrument ID: GCMS-Z BFB Injection Time: 0833

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.0
75	30.0 - 60.0% of mass 95	39.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	81.7
175	5.0 - 9.0% of mass 174	6.8 (8.3)1
176	95.0 - 101.0% of mass 174	77.9 (95.3)1
177	5.0 - 9.0% of mass 176	5.4 (7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050Z24A	Z1629	05/24/04	0900
02	WG7754-LCS	WG7754-1	Z1630	05/24/04	0939
03	WG7754-BLANK	WG7754-2	Z1632	05/24/04	1058
04	G01-MW-03-0504	WU1503-3	Z1641	05/24/04	1632
05	G01-MW-10-0504	WU1503-4	Z1642	05/24/04	1710
06	G01-MW-12-0504	WU1503-5	Z1643	05/24/04	1747
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FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GCMS-Z Calibration Date: 05/24/04 Time: 0900

Lab File ID: Z1629 Init. Calib. Date(s): 05/11/04 05/11/04

Init. Calib. Times: 0927 1647

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Chloromethane	0.7780000	0.9432700	0.9432700	0.1	21.24		AVRG	
Vinyl chloride	0.7190000	0.7954300	0.7954300	0.01	10.63	20.00	AVRG	
Bromomethane	0.6210000	0.5648900	0.5648900	0.01	-9.04		AVRG	
Chloroethane	0.4930000	0.5512500	0.5512500	0.01	11.82		AVRG	
1,1-Dichloroethene	0.5480000	0.5064200	0.5064200	0.1	-7.59	20.00	AVRG	
Methylene Chloride	47.403000	50.000000	0.7216100	0.01	-5.19		LINR	
trans-1,2-Dichloroethene	0.6450000	0.5964100	0.5964100	0.01	-7.53		AVRG	
Methyl tert-butyl ether	1.6220000	1.5376000	1.5376000	0.01	-5.20		AVRG	
1,1-Dichloroethane	1.1370000	1.0732000	1.0732000	0.3	-5.61		AVRG	
cis-1,2-Dichloroethene	0.5730000	0.5674300	0.5674300	0.01	-0.97		AVRG	
Chloroform	0.8830000	0.8427400	0.8427400	0.01	-4.56	20.00	AVRG	
Carbon Tetrachloride	0.2910000	0.2745500	0.2745500	0.01	-5.65		AVRG	
1,1,1-Trichloroethane	0.6660000	0.6250600	0.6250600	0.01	-6.15		AVRG	
Benzene	1.2710000	1.1869000	1.1869000	0.01	-6.62		AVRG	
1,2-Dichloroethane	0.4060000	0.3339200	0.3339200	0.01	-17.75		AVRG	
Trichloroethene	0.3200000	0.3079800	0.3079800	0.01	-3.76		AVRG	
1,2-Dichloropropane	0.3630000	0.3295100	0.3295100	0.01	-9.22	20.00	AVRG	
Bromodichloromethane	0.4150000	0.3759200	0.3759200	0.01	-9.42		AVRG	
cis-1,3-dichloropropene	0.5100000	0.4832800	0.4832800	0.01	-5.24		AVRG	
2-Chloroethylvinylether	35.558000	50.000000	0.1799600	0.01	-28.88		LINR	
Toluene	0.7790000	0.7213800	0.7213800	0.01	-7.40	20.00	AVRG	
Tetrachloroethene	0.2560000	0.2392700	0.2392700	0.01	-6.54		AVRG	
trans-1,3-Dichloropropene	43.027000	50.000000	0.4075800	0.01	-13.95		LINR	
1,1,2-Trichloroethane	0.2740000	0.2514600	0.2514600	0.01	-8.23		AVRG	
Dibromochloromethane	0.3420000	0.3192400	0.3192400	0.01	-6.66		AVRG	
Chlorobenzene	0.9740000	0.8383000	0.8383000	0.3	-13.93		AVRG	
Ethylbenzene	1.7120000	1.4803000	1.4803000	0.01	-13.53	20.00	AVRG	
Xylenes (total)	0.0000000	0.5296200	0.5296200	0.01	0.00		AVRG	<-
Bromoform	43.009000	50.000000	0.2288600	0.1	-13.98		LINR	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GCMS-Z Calibration Date: 05/24/04 Time: 0900

Lab File ID: Z1629 Init. Calib. Date(s): 05/11/04 05/11/04

Init. Calib. Times: 0927 1647

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,1,2,2-Tetrachloroethane	1.0960000	0.7563700	0.7563700	0.3	-30.99		AVRG
m+p-Xylenes	0.6260000	0.5331200	0.5331200	0.01	-14.84		AVRG
o-Xylene	0.5710000	0.5226400	0.5226400	0.01	-8.47		AVRG
Dibromofluoromethane	0.5580000	0.5559700	0.5559700	0.01	-0.36		AVRG
1,2-Dichloroethane-D4	0.6220000	0.5261400	0.5261400	0.01	-15.41		AVRG
Toluene-D8	1.1230000	1.0622000	1.0622000	0.01	-5.41		AVRG
P-Bromofluorobenzene	0.4320000	0.4354100	0.4354100	0.01	0.79		AVRG

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: ZB822 BFB Injection Date: 05/28/04

Instrument ID: GCMS-Z BFB Injection Time: 0708

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.9
75	30.0 - 60.0% of mass 95	44.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	9.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	51.8
175	5.0 - 9.0% of mass 174	3.8 (7.4)1
176	95.0 - 101.0% of mass 174	49.3 (95.3)1
177	5.0 - 9.0% of mass 176	3.5 (7.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050Z28A	Z1706	05/28/04	0736
02	WG7857-LCS	WG7857-1	Z1707	05/28/04	0815
03	WG7857-BLANK	WG7857-2	Z1709	05/28/04	0931
04	FC-MW-05-0504	WU1529-1	Z1718	05/28/04	1510
05	FC-MW-06-0504	WU1529-2	Z1719	05/28/04	1548
06	FC-MW-22-0504	WU1529-3	Z1720	05/28/04	1625
07	KW-DUP-01-0504	WU1529-4	Z1721	05/28/04	1703
08	G01-MW02-0504	WU1529-5	Z1722	05/28/04	1739
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FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GCMS-Z Calibration Date: 05/28/04 Time: 0736

Lab File ID: Z1706 Init. Calib. Date(s): 05/26/04 05/26/04

Init. Calib. Times: 0937 1742

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Chloromethane	0.4630000	0.4402600	0.4402600	0.1	-4.91		AVRG	
Vinyl chloride	0.4550000	0.4205700	0.4205700	0.01	-7.57	20.00	AVRG	
Bromomethane	0.2530000	0.2415600	0.2415600	0.01	-4.52		AVRG	
Chloroethane	43.212000	50.000000	0.2394700	0.01	-13.58		2RDR	
1,1-Dichloroethene	0.3680000	0.3420200	0.3420200	0.1	-7.06	20.00	AVRG	
Methylene Chloride	50.885000	50.000000	0.5119800	0.01	1.77		LINR	
trans-1,2-Dichloroethene	0.4310000	0.4184800	0.4184800	0.01	-2.90		AVRG	
Methyl tert-butyl ether	1.1300000	1.1725000	1.1725000	0.01	3.76		AVRG	
1,1-Dichloroethane	0.7060000	0.7144500	0.7144500	0.3	1.20		AVRG	
cis-1,2-Dichloroethene	0.4890000	0.4859800	0.4859800	0.01	-0.62		AVRG	
Chloroform	0.7210000	0.7107200	0.7107200	0.01	-1.42	20.00	AVRG	
Carbon Tetrachloride	0.2760000	0.2718200	0.2718200	0.01	-1.51		AVRG	
1,1,1-Trichloroethane	0.5280000	0.5076200	0.5076200	0.01	-3.86		AVRG	
Benzene	1.1400000	1.1127000	1.1127000	0.01	-2.39		AVRG	
1,2-Dichloroethane	0.3440000	0.3377100	0.3377100	0.01	-1.83		AVRG	
Trichloroethene	0.2680000	0.2640300	0.2640300	0.01	-1.48		AVRG	
1,2-Dichloropropane	47.624000	50.000000	0.2889800	0.01	-4.75	20.00	LINR	
Bromodichloromethane	0.3360000	0.3554300	0.3554300	0.01	5.78		AVRG	
cis-1,3-dichloropropene	0.4400000	0.4557600	0.4557600	0.01	3.58		AVRG	
2-Chloroethylvinylether	0.1850000	0.1727900	0.1727900	0.01	-6.60		AVRG	
Toluene	0.6760000	0.6915400	0.6915400	0.01	2.30	20.00	AVRG	
Tetrachloroethene	0.2660000	0.2578800	0.2578800	0.01	-3.05		AVRG	
trans-1,3-Dichloropropene	0.3660000	0.3809000	0.3809000	0.01	4.07		AVRG	
1,1,2-Trichloroethane	0.2310000	0.2215200	0.2215200	0.01	-4.10		AVRG	
Dibromochloromethane	45.403000	50.000000	0.3636300	0.01	-9.19		LINR	
Chlorobenzene	0.9030000	0.8936900	0.8936900	0.3	-1.03		AVRG	
Ethylbenzene	1.4160000	1.3982000	1.3982000	0.01	-1.26	20.00	AVRG	
Xylenes (total)	0.0000000	0.5334100	0.5334100	0.01	0.00		AVRG	<-
Bromoform	42.382000	50.000000	0.2521400	0.1	-15.24		LINR	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GCMS-Z Calibration Date: 05/28/04 Time: 0736

Lab File ID: Z1706 Init. Calib. Date(s): 05/26/04 05/26/04

Init. Calib. Times: 0937 1742

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,1,2,2-Tetrachloroethane	0.9630000	0.7998700	0.7998700	0.3	-16.94		AVRG
m+p-Xylenes	0.5520000	0.5318100	0.5318100	0.01	-3.66		AVRG
o-Xylene	0.5430000	0.5366200	0.5366200	0.01	-1.18		AVRG
Dibromofluoromethane	0.4800000	0.4712800	0.4712800	0.01	-1.82		AVRG
1,2-Dichloroethane-D4	0.4690000	0.4297400	0.4297400	0.01	-8.37		AVRG
Toluene-D8	1.0010000	1.0222000	1.0222000	0.01	2.12		AVRG
P-Bromofluorobenzene	0.3820000	0.3780500	0.3780500	0.01	-1.03		AVRG

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: ZB823 BFB Injection Date: 06/01/04

Instrument ID: GCMS-Z BFB Injection Time: 0804

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.8
75	30.0 - 60.0% of mass 95	39.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	92.0
175	5.0 - 9.0% of mass 174	6.5 (7.1)1
176	95.0 - 101.0% of mass 174	91.1 (99.1)1
177	5.0 - 9.0% of mass 176	6.0 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050Z01A	Z1727	06/01/04	0828
02	WG7892-LCS	WG7892-1	Z1728	06/01/04	0909
03	WG7892-BLANK	WG7892-2	Z1730	06/01/04	1024
04	KWTB-052404	WU1529-9	Z1731	06/01/04	1104
05	G01-MW04-0504	WU1529-6	Z1734	06/01/04	1255
06	G01-MW05-0504	WU1529-7	Z1735	06/01/04	1410
07	G01-MW11-0504	WU1529-8	Z1736	06/01/04	1446
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Katahdin Analytical Services 1000031

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GCMS-Z Calibration Date: 06/01/04 Time: 0828

Lab File ID: Z1727 Init. Calib. Date(s): 05/26/04 05/26/04

Init. Calib. Times: 0937 1742

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Chloromethane	0.4630000	0.4585500	0.4585500	0.1	-0.96		AVRG	
Vinyl chloride	0.4550000	0.4320900	0.4320900	0.01	-5.04	20.00	AVRG	
Bromomethane	0.2530000	0.1916300	0.1916300	0.01	-24.26		AVRG	
Chloroethane	40.729000	50.000000	0.2283500	0.01	-18.54		2RDR	
1,1-Dichloroethene	0.3680000	0.3447400	0.3447400	0.1	-6.32	20.00	AVRG	
Methylene Chloride	48.867000	50.000000	0.4933100	0.01	-2.27		LINR	
trans-1,2-Dichloroethene	0.4310000	0.4131400	0.4131400	0.01	-4.14		AVRG	
Methyl tert-butyl ether	1.1300000	1.2062000	1.2062000	0.01	6.74		AVRG	
1,1-Dichloroethane	0.7060000	0.6949200	0.6949200	0.3	-1.57		AVRG	
cis-1,2-Dichloroethene	0.4890000	0.5164400	0.5164400	0.01	5.61		AVRG	
Chloroform	0.7210000	0.7357600	0.7357600	0.01	2.05	20.00	AVRG	
Carbon Tetrachloride	0.2760000	0.2921700	0.2921700	0.01	5.86		AVRG	
1,1,1-Trichloroethane	0.5280000	0.5424100	0.5424100	0.01	2.73		AVRG	
Benzene	1.1400000	1.1744000	1.1744000	0.01	3.02		AVRG	
1,2-Dichloroethane	0.3440000	0.3584600	0.3584600	0.01	4.20		AVRG	
Trichloroethene	0.2680000	0.2647300	0.2647300	0.01	-1.22		AVRG	
1,2-Dichloropropane	51.770000	50.000000	0.3143200	0.01	3.54	20.00	LINR	
Bromodichloromethane	0.3360000	0.3463800	0.3463800	0.01	3.09		AVRG	
cis-1,3-dichloropropene	0.4400000	0.4877400	0.4877400	0.01	10.85		AVRG	
2-Chloroethylvinylether	0.1850000	0.2337900	0.2337900	0.01	26.37		AVRG	
Toluene	0.6760000	0.6855900	0.6855900	0.01	1.42	20.00	AVRG	
Tetrachloroethene	0.2660000	0.2663300	0.2663300	0.01	0.12		AVRG	
trans-1,3-Dichloropropene	0.3660000	0.4067800	0.4067800	0.01	11.14		AVRG	
1,1,2-Trichloroethane	0.2310000	0.2278000	0.2278000	0.01	-1.38		AVRG	
Dibromochloromethane	46.052000	50.000000	0.3690000	0.01	-7.90		LINR	
Chlorobenzene	0.9030000	0.8529600	0.8529600	0.3	-5.54		AVRG	
Ethylbenzene	1.4160000	1.3465000	1.3465000	0.01	-4.91	20.00	AVRG	
Xylenes (total)	0.0000000	0.5236800	0.5236800	0.01	0.00		AVRG	<-
Bromoform	44.979000	50.000000	0.2683600	0.1	-10.04		LINR	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GCMS-Z Calibration Date: 06/01/04 Time: 0828

Lab File ID: Z1727 Init. Calib. Date(s): 05/26/04 05/26/04

Init. Calib. Times: 0937 1742

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,1,2,2-Tetrachloroethane	0.9630000	0.7896200	0.7896200	0.3	-18.00		AVRG
m+p-Xylenes	0.5520000	0.5308700	0.5308700	0.01	-3.83		AVRG
o-Xylene	0.5430000	0.5092900	0.5092900	0.01	-6.21		AVRG
Dibromofluoromethane	0.4800000	0.4909900	0.4909900	0.01	2.29		AVRG
1,2-Dichloroethane-D4	0.4690000	0.4492600	0.4492600	0.01	-4.21		AVRG
Toluene-D8	1.0010000	1.0578000	1.0578000	0.01	5.67		AVRG
P-Bromofluorobenzene	0.3820000	0.4026000	0.4026000	0.01	5.39		AVRG

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

GC Column(1): SPB 608 ID: 0.53 (mm) GC Column(2): RTX-CLP IIID: 0.53 (mm)

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 TCX#	SMC2 TCX#			TOT OUT
01	WG7920-BLANK	WG7920-1	86	82			0
02	WG7920-LCS	WG7920-2	91	87			0
03	WG7920-LCSD	WG7920-3	86	82			0
04	G01-MW-03-0504	WU1503-3	80	76			0
05	G01-MW-10-0504	WU1503-4	58	54*			1
06	G01-MW-12-0504	WU1503-5	50*	54*			2
07	A824-MW-02-0504	WU1519-3	53*	57			1
08	A824-MW-03-0504	WU1519-4	78	72			0
09	KW-DUP-03-0504	WU1519-5	61	56*			1
10	FC-MW-22-0504	WU1529-3	71	71			0
11	KW-DUP-01-0504	WU1529-4	71	65			0
12	G01-MW02-0504	WU1529-5	55*	49*			2
13	G01-MW05-0504	WU1529-7	74	66			0
14	G01-MW11-0504	WU1529-8	62	64			0
15	WG7969-BLANK	WG7969-1	111	111			0
16	WG7969-LCS	WG7969-2	124	119			0
17	WG7969-LCSD	WG7969-3	126	102			0
18	G01-MW-12-0504	WU1503-5RE	56*	54*			2
19	RR-MW-06-0504	WU1519-1RE	73	76			0
20	RR-MW-06-0504MS	WG7969-4	66	61			0
21	RR-MW-06-0504MSD	WG7969-5	76	78			0
22	A824-MW-01-0504	WU1519-2RE	88	83			0
23	G01-MW04-0504	WU1529-6RE	74	72			0
24	FC-MW-05-0504	WU1529-1RE	64	60			0
25	FC-MW-06-0504	WU1529-2RE	86	81			0
26	WG8161-BLANK	WG8161-1	107	110			0
27	WG8161-LCS	WG8161-2	90	95			0
28	WG8161-LCSD	WG8161-3	84	86			0

QC LIMITS

SMC1 (TCX) = Tetrachloro-M-Xylene (57-128)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Katahdin Analytical Services 6000003

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

GC Column(1): SPB 608 ID: 0.53 (mm)GC Column(2): RTX-CLP IIID: 0.53 (mm)

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 TCX#	SMC2 TCX#			TOT OUT
01	G01-MW02-0504	WU1529-5RE	31*	34*			2
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							

SMC1 (TCX) = Tetrachloro-M-Xylene QC LIMITS (57-128)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Katahdin Analytical Services 6000004

FORM 4
PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG7920-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab Sample ID: WG7920-1 Lab File ID: 3UF1010

Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) 504.1

Sulfur Cleanup: (Y/N) N Date Extracted: 06/02/04

Date Analyzed (1): 06/02/04 Date Analyzed (2): 06/02/04

Time Analyzed (1): 1748 Time Analyzed (2): 1748

Instrument ID (1): GC03 Instrument ID (2): GC03

GC Column (1): SPB 608 ID: 0.53(mm) GC Column (2): RTX-CLP II ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	WG7920-LCS	WG7920-2	3UF1011	06/02/04	06/02/04
02	WG7920-LCSD	WG7920-3	3UF1012	06/02/04	06/02/04
03	G01-MW-03-0504	WU1503-3	3UF1016	06/02/04	06/02/04
04	G01-MW-10-0504	WU1503-4	3UF1017	06/02/04	06/02/04
05	G01-MW-12-0504	WU1503-5	3UF1018	06/02/04	06/02/04
06	A824-MW-02-0504	WU1519-3	3UF1023	06/02/04	06/02/04
07	A824-MW-03-0504	WU1519-4	3UF1024	06/02/04	06/02/04
08	KW-DUP-03-0504	WU1519-5	3UF1025	06/02/04	06/02/04
09	FC-MW-22-0504	WU1529-3	3UF1028	06/02/04	06/02/04
10	KW-DUP-01-0504	WU1529-4	3UF1029	06/02/04	06/02/04
11	G01-MW02-0504	WU1529-5	3UF1030	06/02/04	06/02/04
12	G01-MW05-0504	WU1529-7	3UF1032	06/03/04	06/03/04
13	G01-MW11-0504	WU1529-8	3UF1033	06/03/04	06/03/04
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

COMMENTS: _____

FORM 4
PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG7969-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab Sample ID: WG7969-1 Lab File ID: 3UF1042

Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) 504.1

Sulfur Cleanup: (Y/N) N Date Extracted: 06/03/04

Date Analyzed (1): 06/03/04 Date Analyzed (2): 06/03/04

Time Analyzed (1): 1507 Time Analyzed (2): 1507

Instrument ID (1): GC03 Instrument ID (2): GC03

GC Column (1): SPB 608 ID: 0.53(mm) GC Column (2): RTX-CLP II ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	WG7969-LCS	WG7969-2	3UF1043	06/03/04	06/03/04
02	WG7969-LCSD	WG7969-3	3UF1044	06/03/04	06/03/04
03	G01-MW-12-0504	WU1503-5RE	3UF1045	06/03/04	06/03/04
04	RR-MW-06-0504	WU1519-1RE	3UF1046	06/03/04	06/03/04
05	RR-MW-06-0504MS	WG7969-4	3UF1047	06/03/04	06/03/04
06	RR-MW-06-0504MSD	WG7969-5	3UF1048	06/03/04	06/03/04
07	A824-MW-01-0504	WU1519-2RE	3UF1049	06/03/04	06/03/04
08	G01-MW04-0504	WU1529-6RE	3UF1050	06/03/04	06/03/04
09	FC-MW-05-0504	WU1529-1RE	3UF1052	06/03/04	06/03/04
10	FC-MW-06-0504	WU1529-2RE	3UF1054	06/04/04	06/04/04
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

COMMENTS: _____

Katahdin Analytical Services 6000006

FORM 4
PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG8161-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab Sample ID: WG8161-1 Lab File ID: 3UF1152

Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) 504.1

Sulfur Cleanup: (Y/N) N Date Extracted: 06/17/04

Date Analyzed (1): 06/17/04 Date Analyzed (2): 06/17/04

Time Analyzed (1): 1115 Time Analyzed (2): 1115

Instrument ID (1): GC03 Instrument ID (2): GC03

GC Column (1): SPB 608 ID: 0.53(mm) GC Column (2): RTX-CLP II ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	WG8161-LCS	WG8161-2	3UF1153	06/17/04	06/17/04
02	WG8161-LCSD	WG8161-3	3UF1154	06/17/04	06/17/04
03	G01-MW02-0504	WU1529-5RE	3UF1158	06/17/04	06/17/04
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

COMMENTS:

Katahdin Analytical Services 6000007

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 06/02/04
Analysis Date: 06/02/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WG7920-1
Client ID: WG7920-Blank
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7920
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		86%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 06/03/04
Analysis Date: 06/03/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WG7969-1
Client ID: WG7969-Blank
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7969
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		111%				

Katahdin Analytical Services 6000009

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 06/17/04
Analysis Date: 06/17/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WG8161-1
Client ID: WG8161-Blank
SDG: CTO301318-1
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG8161
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		110%				

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

GC Column: SPB 608 ID: 0.53 (mm) Init. Calib. Date(s): 06/02/04 06/02/04

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 12.03

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	RT	#
01	ICAL	0.02	06/02/04	1540	12.04			
02	ICAL	0.05	06/02/04	1558	12.04			
03	ICAL	0.10	06/02/04	1617	12.03			
04	ICAL	0.25	06/02/04	1635	12.04			
05	ICAL	0.50	06/02/04	1653	12.04			
06	ICAL	1.0	06/02/04	1711	12.04			
07	ICAL	2.5	06/02/04	1730	12.04			
08	WG7920-BLANK	WG7920-1	06/02/04	1748	12.04			
09	WG7920-LCS	WG7920-2	06/02/04	1806	12.04			
10	WG7920-LCSD	WG7920-3	06/02/04	1824	12.04			
11	G01-MW-03-05	WU1503-3	06/02/04	1937	12.04			
12	G01-MW-10-05	WU1503-4	06/02/04	1956	12.03			
13	G01-MW-12-05	WU1503-5	06/02/04	2014	12.03			
14	A824-MW-02-0	WU1519-3	06/02/04	2145	12.04			
15	A824-MW-03-0	WU1519-4	06/02/04	2203	12.04			
16	KW-DUP-03-05	WU1519-5	06/02/04	2222	12.04			
17	FC-MW-22-050	WU1529-3	06/02/04	2316	12.04			
18	KW-DUP-01-05	WU1529-4	06/02/04	2334	12.03			
19	G01-MW02-050	WU1529-5	06/02/04	2353	12.04			
20	G01-MW05-050	WU1529-7	06/03/04	0029	12.03			

QC LIMITS
TCX = Tetrachloro-M-Xylene (+/- 0.24 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

GC Column: SPB 608 ID: 0.53 (mm) Init. Calib. Date(s): 06/02/04 06/02/04

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 12.03

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	RT #
01	G01-MW11-050	WU1529-8	06/03/04	0047	12.03	
02	CV	CV	06/03/04	0219	12.04	
03	CV	CV	06/03/04	1332	12.07	
04	WG7969-BLANK	WG7969-1	06/03/04	1507	12.07	
05	WG7969-LCS	WG7969-2	06/03/04	1525	12.05	
06	WG7969-LCSD	WG7969-3	06/03/04	1543	12.04	
07	G01-MW-12-05	WU1503-5RE	06/03/04	1601	12.03	
08	RR-MW-06-050	WU1519-1RE	06/03/04	1620	12.04	
09	RR-MW-06-050	WG7969-4	06/03/04	1638	12.04	
10	RR-MW-06-050	WG7969-5	06/03/04	1656	12.04	
11	A824-MW-01-0	WU1519-2RE	06/03/04	1714	12.04	
12	G01-MW04-050	WU1529-6RE	06/03/04	1733	12.04	
13	FC-MW-05-050	WU1529-1RE	06/03/04	1809	12.05	
14	CV	CV	06/04/04	0733	12.08	
15	FC-MW-06-050	WU1529-2RE	06/04/04	0758	12.05	
16	CV	CV	06/04/04	0947	12.04	
17						
18						
19						
20						

QC LIMITS
TCX = Tetrachloro-M-Xylene (+/- 0.24 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

GC Column: RTX-CLP II ID: 0.53 (mm) Init. Calib. Date(s): 06/02/04 06/02/04

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 11.33

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	RT #
01	ICAL	0.02	06/02/04	1540	11.35	
02	ICAL	0.05	06/02/04	1558	11.35	
03	ICAL	0.10	06/02/04	1617	11.33	
04	ICAL	0.25	06/02/04	1635	11.35	
05	ICAL	0.50	06/02/04	1653	11.35	
06	ICAL	1.0	06/02/04	1711	11.35	
07	ICAL	2.5	06/02/04	1730	11.35	
08	WG7920-BLANK	WG7920-1	06/02/04	1748	11.35	
09	WG7920-LCS	WG7920-2	06/02/04	1806	11.35	
10	WG7920-LCSD	WG7920-3	06/02/04	1824	11.35	
11	G01-MW-03-05	WU1503-3	06/02/04	1937	11.35	
12	G01-MW-10-05	WU1503-4	06/02/04	1956	11.33	
13	G01-MW-12-05	WU1503-5	06/02/04	2014	11.35	
14	A824-MW-02-0	WU1519-3	06/02/04	2145	11.35	
15	A824-MW-03-0	WU1519-4	06/02/04	2203	11.35	
16	KW-DUP-03-05	WU1519-5	06/02/04	2222	11.35	
17	FC-MW-22-050	WU1529-3	06/02/04	2316	11.35	
18	KW-DUP-01-05	WU1529-4	06/02/04	2334	11.35	
19	G01-MW02-050	WU1529-5	06/02/04	2353	11.35	
20	G01-MW05-050	WU1529-7	06/03/04	0029	11.35	

QC LIMITS
TCX = Tetrachloro-M-Xylene (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

GC Column: RTX-CLP II ID: 0.53 (mm) Init. Calib. Date(s): 06/02/04 06/02/04

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 11.33

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	RT #
01	G01-MW11-050	WU1529-8	06/03/04	0047	11.35	
02	CV	CV	06/03/04	0219	11.35	
03	CV	CV	06/03/04	1332	11.37	
04	WG7969-BLANK	WG7969-1	06/03/04	1507	11.37	
05	WG7969-LCS	WG7969-2	06/03/04	1525	11.36	
06	WG7969-LCSD	WG7969-3	06/03/04	1543	11.35	
07	G01-MW-12-05	WU1503-5RE	06/03/04	1601	11.35	
08	RR-MW-06-050	WU1519-1RE	06/03/04	1620	11.35	
09	RR-MW-06-050	WG7969-4	06/03/04	1638	11.36	
10	RR-MW-06-050	WG7969-5	06/03/04	1656	11.35	
11	A824-MW-01-0	WU1519-2RE	06/03/04	1714	11.35	
12	G01-MW04-050	WU1529-6RE	06/03/04	1733	11.35	
13	FC-MW-05-050	WU1529-1RE	06/03/04	1809	11.36	
14	CV	CV	06/04/04	0733	11.37	
15	FC-MW-06-050	WU1529-2RE	06/04/04	0758	11.36	
16	CV	CV	06/04/04	0947	11.36	
17						
18						
19						
20						

QC LIMITS
TCX = Tetrachloro-M-Xylene (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

GC Column: SPB 608 ID: 0.53 (mm) Init. Calib. Date(s): 06/17/04 06/17/04

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 12.03

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	RT #
01	ICAL	0.02	06/17/04	0908	12.05	
02	ICAL	0.05	06/17/04	0926	12.05	
03	ICAL	0.10	06/17/04	0944	12.04	
04	ICAL	0.25	06/17/04	1003	12.04	
05	ICAL	0.50	06/17/04	1021	12.04	
06	ICAL	1.0	06/17/04	1039	12.04	
07	ICAL	2.5	06/17/04	1057	12.04	
08	WG8161-BLANK	WG8161-1	06/17/04	1115	12.04	
09	WG8161-LCS	WG8161-2	06/17/04	1134	12.04	
10	WG8161-LCSD	WG8161-3	06/17/04	1152	12.04	
11	G01-MW02-050	WU1529-5RE	06/17/04	1305	12.04	
12	CV	CV	06/17/04	1721	12.04	
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
TCX = Tetrachloro-M-Xylene (+/- 0.24 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

GC Column: RTX-CLP II ID: 0.53 (mm) Init. Calib. Date(s): 06/17/04 06/17/04

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 11.33

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	RT	#
01	ICAL	0.02	06/17/04	0908	11.37			
02	ICAL	0.05	06/17/04	0926	11.36			
03	ICAL	0.10	06/17/04	0944	11.36			
04	ICAL	0.25	06/17/04	1003	11.36			
05	ICAL	0.50	06/17/04	1021	11.36			
06	ICAL	1.0	06/17/04	1039	11.35			
07	ICAL	2.5	06/17/04	1057	11.35			
08	WG8161-BLANK	WG8161-1	06/17/04	1115	11.35			
09	WG8161-LCS	WG8161-2	06/17/04	1134	11.35			
10	WG8161-LCSD	WG8161-3	06/17/04	1152	11.35			
11	G01-MW02-050	WU1529-5RE	06/17/04	1305	11.35			
12	CV	CV	06/17/04	1721	11.35			
13								
14								
15								
16								
17								
18								
19								
20								

QC LIMITS

TCX = Tetrachloro-M-Xylene (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Katahdin Analytical Services 6000020

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC03 Calibration Date(s): 06/02/04 06/02/04

Column: SPB 608 ID: 0.53 (mm) Calibration Time(s): 1540 1730

LAB FILE ID: RF0.02: 3UF1003 RF0.05: 3UF1004 RF0.1: 3UF1005
RF0.25: 3UF1006 RF0.5: 3UF1007 RF1: 3UF1008

COMPOUND	RF0.02	RF0.05	RF0.1	RF0.25	RF0.5	RF1	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2
1,2-Dibromoethane	1888	4657	9189	20346	35226	61414	2ORDR	-1.06e-002	1.244e-005	6.149e-011	0.99984	0.99000
Tetrachloro-M-Xylene	14432	32267	58550	67797	82368	160610	2ORDR	1.776e-002	1.358e-005	1.131e-011	0.99924	0.99000

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC03 Calibration Date(s): 06/02/04 06/02/04

Column: SPB 608 ID: 0.53 (mm) Calibration Time(s): 1540 1730

RF2.5: 3UF1009

			COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF2.5	CURVE	A0	A1	A2	OR R^2	OR R^2	
1,2-Dibromoethane	124920	2ORDR	-1.06e-002	1.244e-005	6.149e-011	0.99984	0.99000	
Tetrachloro-M-Xylene	294730	2ORDR	1.776e-002	1.358e-005	1.131e-011	0.99924	0.99000	

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC03 Calibration Date(s): 06/02/04 06/02/04

Column: RTX-CLP II ID: 0.53 (mm) Calibration Time(s): 1540 1730

LAB FILE ID: RF0.02: 3UF2003 RF0.05: 3UF2004 RF0.1: 3UF2005
RF0.25: 3UF2006 RF0.5: 3UF2007 RF1: 3UF2008

								COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF0.02	RF0.05	RF0.1	RF0.25	RF0.5	RF1	CURVE	A0	A1	A2	OR R^2	OR R^2	
1,2-Dibromoethane	245	545	1030	2376	4595	8515	2ORDR	-6.76e-003	1.055e-004	1.399e-009	0.99997	0.99000	
Tetrachloro-M-Xylene	2132	4433	8465	9840	12086	24520	2ORDR	8.842e-003	1.004e-004	9.231e-012	0.99914	0.99000	

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC03 Calibration Date(s): 06/02/04 06/02/04

Column: RTX-CLP II ID: 0.53 (mm) Calibration Time(s): 1540 1730

RF2.5: 3UF2009

			COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF2.5	CURVE	A0	A1	A2	OR R^2	OR R^2	
1,2-Dibromoethane	18990	2ORDR	-6.76e-003	1.055e-004	1.399e-009	0.99997	0.99000	
Tetrachloro-M-Xylene	49508	2ORDR	8.842e-003	1.004e-004	9.231e-012	0.99914	0.99000	

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC03 Calibration Date(s): 06/17/04 06/17/04

Column: SPB 608 ID: 0.53 (mm) Calibration Time(s): 0908 1057

LAB FILE ID: RF0.02: 3UF1145 RF0.05: 3UF1146 RF0.1: 3UF1147
RF0.25: 3UF1148 RF0.5: 3UF1149 RF1: 3UF1150

								COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF0.02	RF0.05	RF0.1	RF0.25	RF0.5	RF1	CURVE	A0	A1	A2	OR R^2	OR R^2	
1,2-Dibromoethane	1734	4829	9243	20928	36459	61063	2ORDR	-1.35e-002	1.257e-005	5.723e-011	0.99951	0.99000	
Tetrachloro-M-Xylene	27516	43113	73767	81701	94331	180720	2ORDR	-9.52e-002	1.366e-005	8.999e-013	0.99730	0.99000	

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC03 Calibration Date(s): 06/17/04 06/17/04

Column: SPB 608 ID: 0.53 (mm) Calibration Time(s): 0908 1057

RF2.5: 3UF1151

			COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF2.5	CURVE	A0	A1	A2	OR R^2	OR R^2	
1,2-Dibromoethane	126940	2ORDR	-1.35e-002	1.257e-005	5.723e-011	0.99951	0.99000	
Tetrachloro-M-Xylene	365490	2ORDR	-9.52e-002	1.366e-005	8.999e-013	0.99730	0.99000	

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC03 Calibration Date(s): 06/17/04 06/17/04

Column: RTX-CLP II ID: 0.53 (mm) Calibration Time(s): 0908 1057

LAB FILE ID: RF0.02: 3UF2145 RF0.05: 3UF2146 RF0.1: 3UF2147
RF0.25: 3UF2148 RF0.5: 3UF2149 RF1: 3UF2150

								COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF0.02	RF0.05	RF0.1	RF0.25	RF0.5	RF1	CURVE	A0	A1	A2	OR R^2	OR R^2	
1,2-Dibromoethane	249	546	1040	2378	4402	7912	2ORDR	-1.63e-002	1.178e-004	9.492e-010	0.99965	0.99000	
Tetrachloro-M-Xylene	2701	4878		9953	12241	25324	2ORDR	-2.72e-002	1.099e-004	-4.3e-010	0.99989	0.99000	

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC03 Calibration Date(s): 06/17/04 06/17/04

Column: RTX-CLP II ID: 0.53 (mm) Calibration Time(s): 0908 1057

RF2.5: 3UF2151

			COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF2.5	CURVE	A0	A1	A2	OR R^2	OR R^2	
1,2-Dibromoethane	18600	2ORDR	-1.63e-002	1.178e-004	9.492e-010	0.99965	0.99000	
Tetrachloro-M-Xylene	59680	2ORDR	-2.72e-002	1.099e-004	-4.3e-010	0.99989	0.99000	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC03 Calibration Date: 06/03/04 Time: 0219

Lab File ID: 3UF1038 Init. Calib. Date(s): 06/02/04 06/02/04

Init. Calib. Times: 1540 1730

GC Column: SPB 608 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2-Dibromoethane	0.5070200	0.5000000	70450.000	0.01	1.40	30.00	2RDR
Tetrachloro-M-Xylene	1.1010000	1.2500000	65890.000	0.01	-11.92	30.00	2RDR

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC03 Calibration Date: 06/03/04 Time: 0219

Lab File ID: 3UF2038 Init. Calib. Date(s): 06/02/04 06/02/04

Init. Calib. Times: 1540 1730

GC Column: RTX-CLP II ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2-Dibromoethane	0.5019200	0.5000000	9096.0000	0.01	0.38	30.00	2RDR
Tetrachloro-M-Xylene	1.0158000	1.2500000	8012.8000	0.01	-18.74	30.00	2RDR

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC03 Calibration Date: 06/03/04 Time: 1332

Lab File ID: 3UF1041A Init. Calib. Date(s): 06/02/04 06/02/04

Init. Calib. Times: 1540 1730

GC Column: SPB 608 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2-Dibromoethane	0.4402400	0.5000000	62754.000	0.01	-11.95	30.00	2RDR
Tetrachloro-M-Xylene	1.5688000	1.2500000	84021.000	0.01	25.50	30.00	2RDR

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC03 Calibration Date: 06/03/04 Time: 1332

Lab File ID: 3UF2041A Init. Calib. Date(s): 06/02/04 06/02/04

Init. Calib. Times: 1540 1730

GC Column: RTX-CLP II ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2-Dibromoethane	0.4865800	0.5000000	9222.0000	0.01	-2.68	30.00	2RDR
Tetrachloro-M-Xylene	1.3417000	1.2500000	10602.000	0.01	7.34	30.00	2RDR

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC03 Calibration Date: 06/04/04 Time: 0733

Lab File ID: 3UF1053 Init. Calib. Date(s): 06/02/04 06/02/04

Init. Calib. Times: 1540 1730

GC Column: SPB 608 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2-Dibromoethane	0.4308600	0.5000000	61600.000	0.01	-13.83	30.00	2RDR
Tetrachloro-M-Xylene	1.5675000	1.2500000	83955.000	0.01	25.40	30.00	2RDR

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC03 Calibration Date: 06/04/04 Time: 0733

Lab File ID: 3UF2053 Init. Calib. Date(s): 06/02/04 06/02/04

Init. Calib. Times: 1540 1730

GC Column: RTX-CLP II ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2-Dibromoethane	0.4992000	0.5000000	9050.0000	0.01	-0.16	30.00	2RDR
Tetrachloro-M-Xylene	1.5689000	1.2500000	12407.000	0.01	25.51	30.00	2RDR

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC03 Calibration Date: 06/04/04 Time: 0947

Lab File ID: 3UF1060 Init. Calib. Date(s): 06/02/04 06/02/04

Init. Calib. Times: 1540 1730

GC Column: SPB 608 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2-Dibromoethane	0.4739100	0.5000000	66854.000	0.01	-5.22	30.00	2RDR
Tetrachloro-M-Xylene	1.4784000	1.2500000	79471.000	0.01	18.27	30.00	2RDR

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC03 Calibration Date: 06/04/04 Time: 0947

Lab File ID: 3UF2060 Init. Calib. Date(s): 06/02/04 06/02/04

Init. Calib. Times: 1540 1730

GC Column: RTX-CLP II ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2-Dibromoethane	0.4957800	0.5000000	8992.0000	0.01	-0.84	30.00	2RDR
Tetrachloro-M-Xylene	1.4515000	1.2500000	11475.000	0.01	16.12	30.00	2RDR

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC03 Calibration Date: 06/17/04 Time: 1721

Lab File ID: 3UF1172 Init. Calib. Date(s): 06/17/04 06/17/04

Init. Calib. Times: 0908 1057

GC Column: SPB 608 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2-Dibromoethane	0.4786300	0.5000000	67804.000	0.01	-4.27	30.00	2RDR
Tetrachloro-M-Xylene	1.2125000	1.2500000	76093.000	0.01	-3.00	30.00	2RDR

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC03 Calibration Date: 06/17/04 Time: 1721

Lab File ID: 3UF2172 Init. Calib. Date(s): 06/17/04 06/17/04

Init. Calib. Times: 0908 1057

GC Column: RTX-CLP II ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2-Dibromoethane	0.4918700	0.5000000	8348.0000	0.01	-1.63	30.00	2RDR
Tetrachloro-M-Xylene	1.4173000	1.2500000	11117.000	0.01	13.38	30.00	2RDR

FORM VII PEST

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0405424A

Work Order Summary

CLIENT:	Ms. Andrea Colby Katahdin Laboratory 340 County Road, #5 West Brook, ME 04092	**BILL TO:**	Ms. Andrea Colby Katahdin Laboratory 340 County Road, #5 West Brook, ME 04092
PHONE:	207-874-2400	**P.O. #**	
FAX:	207-775-4029	**PROJECT #**	WU1503 TTNLS/ Keywest
DATE RECEIVED:	5/25/2004	**CONTACT:**	Betty Chu
DATE COMPLETED:	6/1/2004		

FRACTION #	NAME	TEST
01A	G01-MW-03-0504	Mod. RSK-175
01AA	G01-MW-03-0504 Duplicate	Mod. RSK-175
02A	G01-MW-10-0504	Mod. RSK-175
03A	G01-MW-12-0504	Mod. RSK-175
04A	Lab Blank	Mod. RSK-175
05A	LCS	Mod. RSK-175

CERTIFIED BY: Linda S. Frumarx DATE: 06/07/04

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified RSK 175
Katahdin Laboratory
Workorder# 0405424A

Three VOA Vial-40 mL samples were received on May 25, 2004. The laboratory performed analysis via Modified RSK 175 for Methane using GC/FID. The method involves placing an aliquot of the sample in a headspace vial. The vial is then placed into HP7694 Headspace Autosampler equipped with oven, shaker and 1 mL sample loop. Sample is incubated and then equilibrated at 40°C for 15 minutes with high agitation. Finally, a direct injection of the headspace is performed. See the data sheets for the reporting limits for each compound.

Requirement	*RSK 175*	*ATL Modifications*
Sample Collection	Collect sample in 60 mL crimp-top vial.	Collect sample in 40 mL VOA vial.
Headspace Generation	Headspace is generated in 60 mL sample vial by displacing volume of liquid with Helium. The amount of liquid should be 10% of sample volume in bottle, up to 10 mL.	5.0 mL of sample is displaced with 5.0 mL Nitrogen and transferred to a Nitrogen purged and capped autosampler vial. Headspace is then generated in the autosampler vial.
Sample Preparation	Sample is shaken 5 min. to equilibrate analyte between headspace and liquid phase.	Prior to injection, autosampler shakes sample for 15 min. while heating to 40°C.
Headspace Injection	Syringe injection of 300 mL headspace into GC.	Autosampler pressurizes sample to fill 1.0 mL loop with headspace sample.
Calibration and Quantitation	Direct injections of gas phase standards are used to obtain a Calibration Curve. Henry's Law is used to calculate mg of gas per Liter of water. Calculation requires recording total volume of serum bottle and headspace, and sample temperature.	Calibration standards are prepared by addition of a gaseous spike solution to clean water. Response factors are calculated for each level of a multi point calibration, and the mean is used to calculate quantitation for each target analyte.
Initial Calibration Curve (ICAL)	Linear regression	% RSD </= 30%, use average RF to quantify results
Lab Blanks	Blank subtraction is performed.	No blank subtraction; Lab Blank must be less than the Reporting Limit.
Specified Detectors	FID or ECD	FID or TCD

Receiving Notes

NELAC Chapter 5 specifies that a legal Chain of Custody must accompany samples when they arrive at the laboratory. In this case a chain of custody was not received with the samples. The discrepancy was noted in the Sample Receipt Confirmation email/fax.

Water samples G01-MW-10-0504 and G01-MW-12-0504 were received with a significant amount of

headspace. (i.e., the diameter of the bubble was greater than 5 mm). The discrepancy was noted in the Sample Receipt Confirmation email/fax.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
G01-MW-03-0504	0405424A-01A	5/20/2004	5/25/2004	NA	8	5/28/2004	NA	Good
G01-MW-03-0504 Dupli	0405424A-01AA	5/20/2004	5/25/2004	NA	8	5/28/2004	NA	Good
G01-MW-10-0504	0405424A-02A	5/20/2004	5/25/2004	NA	8	5/28/2004	NA	Good
G01-MW-12-0504	0405424A-03A	5/20/2004	5/25/2004	NA	8	5/28/2004	NA	Good
Lab Blank	0405424A-04A	NA	NA	NA	NA	5/28/2004	NA	Good
LCS	0405424A-05A	NA	NA	NA	NA	5/28/2004	NA	Good

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0405424A-04A

MODIFIED METHOD RSK-175 GC/FID

File Name:	052804	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	5/28/04 08:45 AM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	Not Detected

Container Type: NA - Not Applicable

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.
Lab File ID: 7052819.d & 7052818.d
Lab Sample ID: 01A & 01AA
Dilution: 1.00 & 1.00
Client Sample ID: &
Date Analyzed: 5/28/04 & 5/28/04

		Original		Duplicate		
CAS Number	Compound	Amount	Flags	Amount	Flags	RPD
74-82-8	Methane	0.6918		0.7382		6.5

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

0022

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 11-APR-2003 11:42
End Cal Date : 11-APR-2003 14:02
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/gc7.i/16Jul2003.b/38100411m5a.m
Cal Date : 17-Jul-2003 10:52 atoyama
Curve Type : Average

Calibration File Names:
Level 1: /chem/gc7.i/11Apr2003.b/7041103.d
Level 2: /chem/gc7.i/11Apr2003.b/7041104.d
Level 3: /chem/gc7.i/11Apr2003.b/7041105.d
Level 4: /chem/gc7.i/11Apr2003.b/7041106.d
Level 5: /chem/gc7.i/11Apr2003.b/7041107.d
Level 6: /chem/gc7.i/11Apr2003.b/7041108.d

Compound	0.00500 Level 1	0.02700 Level 2	0.06700 Level 3	1.330 Level 4	6.651 Level 5	133.028 Level 6	___ RRF	% RSD
1 Methane	23473600	20391519	18145642	19641331	15588518	18737320	19329655	13.519
2 Ethylene	22286222	21228170	19317603	20626919	16449448	+++++	19981673	11.246
3 Ethane	23052444	20508100	18422992	19735760	15755809	+++++	19495021	13.781
4 Propene	23241100	22213288	19741557	20499315	15275004	23483000	20742211	14.761
5 Propane	24163100	21716018	19656431	20275345	15092413	22819091	20620400	15.365

Report Date: 28-May-2004 07:49

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc7.i Injection Date: 28-MAY-2004 07:11
Lab File ID: 7052801.d Init. Cal. Date(s): 11-APR-2003 11-APR-2003
Analysis Type: AIR Init. Cal. Times: 11:42 14:02
Lab Sample ID: 1068-2Q-01 Quant Type: ESTD
Method: /chem/gc7.i/28May2004.b/38100411m5a.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF0.000	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
1 Methane	19329655	22183665	0.100	-14.76493	30.00000	Averaged
2 Ethylene	19981673	23620614	0.010	-18.21140	30.00000	Averaged
3 Ethane	19495021	22416703	0.010	-14.98681	30.00000	Averaged

Report Date: 28-May-2004 16:21

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 28May2004
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1068-2Q-02
Client Smp ID: CCV
Level: LOW
Operator: ACT
Data Type: GC DATA
SampleType: METHSPIKE
SpikeList File: 1-3ccv.spk
Quant Type: ESTD
Sublist File: 1-3.sub
Method File: /chem/gc7.i/28May2004.b/38100411m5a.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug/mL	CONC RECOVERED ug/mL	% RECOVERED	LIMITS
1 Methane	1.330	1.466	110.20	70-130
2 Ethylene	2.305	2.573	111.62	70-130
3 Ethane	2.494	2.693	107.97	70-130

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0405424B

Work Order Summary

CLIENT:	Ms. Andrea Colby Katahdin Laboratory 340 County Road, #5 West Brook, ME 04092	**BILL TO:**	Ms. Andrea Colby Katahdin Laboratory 340 County Road, #5 West Brook, ME 04092
PHONE:	207-874-2400	**P.O. #**	
FAX:	207-775-4029	**PROJECT #**	WU1519 Keywest
DATE RECEIVED:	5/25/2004	**CONTACT:**	Betty Chu
DATE COMPLETED:	6/1/2004		

FRACTION #	NAME	TEST
04A	RR-MW-06-0504	Mod. RSK-175
04AMS	RR-MW-06-0504 MS	Mod. RSK-175
04AMSD	RR-MW-06-0504 MSD	Mod. RSK-175
05A	A824-MW-01-0504	Mod. RSK-175
06A	A824-MW-02-0504	Mod. RSK-175
07A	A824-MW-03-0504	Mod. RSK-175
08A	KW-DUP-03-0504	Mod. RSK-175
09A	Lab Blank	Mod. RSK-175
10A	LCS	Mod. RSK-175

CERTIFIED BY: Linda A. Truman DATE: 06/07/04

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified RSK 175
Katahdin Laboratory
Workorder# 0405424B

Five VOA Vial-40 mL samples were received on May 25, 2004. The laboratory performed analysis via Modified RSK 175 for Methane using GC/FID. The method involves placing an aliquot of the sample in a headspace vial. The vial is then placed into HP7694 Headspace Autosampler equipped with oven, shaker and 1 mL sample loop. Sample is incubated and then equilibrated at 40°C for 15 minutes with high agitation. Finally, a direct injection of the headspace is performed. See the data sheets for the reporting limits for each compound.

Requirement	*RSK 175*	*ATL Modifications*
Sample Collection	Collect sample in 60 mL crimp-top vial.	Collect sample in 40 mL VOA vial.
Headspace Generation	Headspace is generated in 60 mL sample vial by displacing volume of liquid with Helium. The amount of liquid should be 10% of sample volume in bottle, up to 10 mL.	5.0 mL of sample is displaced with 5.0 mL Nitrogen and transferred to a Nitrogen purged and capped autosampler vial. Headspace is then generated in the autosampler vial.
Sample Preparation	Sample is shaken 5 min. to equilibrate analyte between headspace and liquid phase.	Prior to injection, autosampler shakes sample for 15 min. while heating to 40°C.
Headspace Injection	Syringe injection of 300 mL headspace into GC.	Autosampler pressurizes sample to fill 1.0 mL loop with headspace sample.
Calibration and Quantitation	Direct injections of gas phase standards are used to obtain a Calibration Curve. Henry's Law is used to calculate mg of gas per Liter of water. Calculation requires recording total volume of serum bottle and headspace, and sample temperature.	Calibration standards are prepared by addition of a gaseous spike solution to clean water. Response factors are calculated for each level of a multi point calibration, and the mean is used to calculate quantitation for each target analyte.
Initial Calibration Curve (ICAL)	Linear regression	% RSD </= 30%, use average RF to quantify results
Lab Blanks	Blank subtraction is performed.	No blank subtraction; Lab Blank must be less than the Reporting Limit.
Specified Detectors	FID or ECD	FID or TCD

Receiving Notes

Water samples RR-MW-06-0504 MS, RR-MW-06-0504 MSD and A824-MW-02-0504 were received with a significant amount of headspace. (i.e., the diameter of the bubble was greater than 5 mm). The discrepancy was noted in the Sample Receipt Confirmation email/fax.

0002

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
RR-MW-06-0504	0405424B-04A	5/21/2004	5/25/2004	NA	7	5/28/2004	NA	Good
RR-MW-06-0504 MS	0405424B-04AM	5/21/2004	NA	NA	7	5/28/2004	NA	Good
RR-MW-06-0504 MSD	0405424B-04AM	5/21/2004	NA	NA	7	5/28/2004	NA	Good
A824-MW-01-0504	0405424B-05A	5/21/2004	5/25/2004	NA	7	5/28/2004	NA	Good
A824-MW-02-0504	0405424B-06A	5/21/2004	5/25/2004	NA	7	5/28/2004	NA	Good
A824-MW-03-0504	0405424B-07A	5/21/2004	5/25/2004	NA	7	5/28/2004	NA	Good
KW-DUP-03-0504	0405424B-08A	5/21/2004	5/25/2004	NA	7	5/28/2004	NA	Good
Lab Blank	0405424B-09A	NA	NA	NA	NA	5/28/2004	NA	Good
LCS	0405424B-10A	NA	NA	NA	NA	5/28/2004	NA	Good

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0405424B-09A

MODIFIED METHOD RSK-175 GC/FID

File Name:	7052304	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	5/28/04 08:45 AM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	Not Detected

Container Type: NA - Not Applicable

0022

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: 7052812.d & 7052813.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: &

Date Analyzed: 5/28/04 & 5/28/04

		Original		Duplicate		
CAS Number	Compound	Amount	Flags	Amount	Flags	RPD
74-82-8	Methane	127		125		1.6

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 11-APR-2003 11:42
End Cal Date : 11-APR-2003 14:02
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/gc7.i/16Jul2003.b/38100411m5a.m
Cal Date : 17-Jul-2003 10:52 atoyama
Curve Type : Average

Calibration File Names:
Level 1: /chem/gc7.i/11Apr2003.b/7041103.d
Level 2: /chem/gc7.i/11Apr2003.b/7041104.d
Level 3: /chem/gc7.i/11Apr2003.b/7041105.d
Level 4: /chem/gc7.i/11Apr2003.b/7041106.d
Level 5: /chem/gc7.i/11Apr2003.b/7041107.d
Level 6: /chem/gc7.i/11Apr2003.b/7041108.d

Compound	0.00500 Level 1	0.02700 Level 2	0.06700 Level 3	1.330 Level 4	6.651 Level 5	133.028 Level 6	___ RRF	% RSD
1 Methane	23473600	20391519	18145642	19641331	15588518	18737320	19329655	13.519
2 Ethylene	22286222	21228170	19317603	20626919	16449448	+++++	19981673	11.246
3 Ethane	23052444	20508100	18422992	19735760	15755809	+++++	19495021	13.781
4 Propene	23241100	22213288	19741557	20499315	15275004	23483000	20742211	14.761
5 Propane	24163100	21716018	19656431	20275345	15092413	22819091	20620400	15.365

Data File: /chem/gc7.i/28May2004.b/7052801.d
Report Date: 28-May-2004 07:49

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc7.i
Lab File ID: 7052801.d
Analysis Type: AIR
Lab Sample ID: 1068-2Q-01
Method: /chem/gc7.i/28May2004.b/38100411m5a.m

Injection Date: 28-MAY-2004 07:11
Init. Cal. Date(s): 11-APR-2003 11-APR-2003
Init. Cal. Times: 11:42 14:02
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.000	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Methane	19329655	22183665	0.100	-14.76493	30.00000	Averaged
2 Ethylene	19981673	23620614	0.010	-18.21140	30.00000	Averaged
3 Ethane	19495021	22416703	0.010	-14.98681	30.00000	Averaged

Report Date: 28-May-2004 16:21

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 28May2004
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1068-2Q-02
Client Smp ID: CCV
Level: LOW
Operator: ACT
Data Type: GC DATA
SampleType: METHSPIKE
SpikeList File: 1-3ccv.spk
Quant Type: ESTD
Sublist File: 1-3.sub
Method File: /chem/gc7.i/28May2004.b/38100411m5a.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug/mL	CONC RECOVERED ug/mL	% RECOVERED	LIMITS
1 Methane	1.330	1.466	110.20	70-130
2 Ethylene	2.305	2.573	111.62	70-130
3 Ethane	2.494	2.693	107.97	70-130

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0405496

Work Order Summary

CLIENT:	Ms. Andrea Colby Katahdin Laboratory 340 County Road, #5 West Brook, ME 04092	**BILL TO:**	Ms. Andrea Colby Katahdin Laboratory 340 County Road, #5 West Brook, ME 04092
PHONE:	207-874-2400	**P.O. #**	
FAX:	207-775-4029	**PROJECT #**	WU1529 TT NUS/Key West
DATE RECEIVED:	5/28/2004	**CONTACT:**	Betty Chu
DATE COMPLETED:	6/10/2004		

FRACTION #	NAME	TEST
01A	G01-MW02-0504	Mod. RSK-175
02A	G01-MW04-0504	Mod. RSK-175
03A	G01-MW05-0504	Mod. RSK-175
04A	G01-MW11-0504	Mod. RSK-175
05A	Lab Blank	Mod. RSK-175
06A	LCS	Mod. RSK-175

CERTIFIED BY: Linda D. Truman DATE: 06/10/04

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
G01-MW02-0504	0405496-01A	5/24/2004	5/28/2004	NA	8	6/ 1/2004	NA	Good
G01-MW04-0504	0405496-02A	5/24/2004	5/28/2004	NA	8	6/ 1/2004	NA	Good
G01-MW05-0504	0405496-03A	5/24/2004	5/28/2004	NA	8	6/ 1/2004	NA	Good
G01-MW11-0504	0405496-04A	5/24/2004	5/28/2004	NA	8	6/ 1/2004	NA	Good
Lab Blank	0405496-05A	NA	NA	NA	NA	6/ 1/2004	NA	Good
LCS	0405496-06A	NA	NA	NA	NA	6/ 1/2004	NA	Good

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0405496-05A

MODIFIED METHOD RSK-175 GC/FID

File Name:	7060103	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 6/1/04 08:01 AM	

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	Not Detected

Container Type: NA - Not Applicable

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 11-APR-2003 11:42
End Cal Date : 11-APR-2003 14:02
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/gc7.i/16Jul2003.b/38100411m5a.m
Cal Date : 17-Jul-2003 10:52 atoyama
Curve Type : Average

Calibration File Names:
Level 1: /chem/gc7.i/11Apr2003.b/7041103.d
Level 2: /chem/gc7.i/11Apr2003.b/7041104.d
Level 3: /chem/gc7.i/11Apr2003.b/7041105.d
Level 4: /chem/gc7.i/11Apr2003.b/7041106.d
Level 5: /chem/gc7.i/11Apr2003.b/7041107.d
Level 6: /chem/gc7.i/11Apr2003.b/7041108.d

Compound	0.00500 Level 1	0.02700 Level 2	0.06700 Level 3	1.330 Level 4	6.651 Level 5	133.028 Level 6	___ RRF	% RSD
1 Methane	23473600	20391519	18145642	19641331	15588518	18737320	19329655	13.519
2 Ethylene	22286222	21228170	19317603	20626919	16449448	+++++	19981673	11.246
3 Ethane	23052444	20508100	18422992	19735760	15755809	+++++	19495021	13.781
4 Propene	23241100	22213288	19741557	20499315	15275004	23483000	20742211	14.761
5 Propane	24163100	21716018	19656431	20275345	15092413	22819091	20620400	15.365

Report Date: 01-Jun-2004 07:35

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc7.i Injection Date: 01-JUN-2004 07:18
Lab File ID: 7060101.d Init. Cal. Date(s): 11-APR-2003 11-APR-2003
Analysis Type: AIR Init. Cal. Times: 11:42 14:02
Lab Sample ID: 1068-2R-01 Quant Type: ESTD
Method: /chem/gc7.i/01Jun2004.b/38100411m5a.m

COMPOUND	RRF / AMOUNT	RF0.000	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Methane	19329655	21678629	0.100	-12.15218	30.00000	Averaged
2 Ethylene	19981673	23080564	0.010	-15.50867	30.00000	Averaged
3 Ethane	19495021	21909995	0.010	-12.38764	30.00000	Averaged

Report Date: 01-Jun-2004 15:14

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 01Jun2004
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1068-2R-02
Client Smp ID: CCV
Level: LOW
Operator: ACT
Data Type: GC DATA
SampleType: METHSPIKE
SpikeList File: 1-3ccv.spk
Quant Type: ESTD
Sublist File: 1-3.sub
Method File: /chem/gc7.i/01Jun2004.b/38100411m5a.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug/mL	CONC RECOVERED ug/mL	% RECOVERED	LIMITS
1 Methane	1.330	1.449	108.98	70-130
2 Ethylene	2.305	2.563	111.20	70-130
3 Ethane	2.494	2.686	107.72	70-130

FORM 2
WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	WG7760-LCSD	WG7760-3	72	87	92						0
02	WG7760-BLANK	WG7760-1RA	91	86	155*						1
03	WG7760-LCS	WG7760-2RA	87	108	120						0
04	B01-MW-01-0504	WU1503-1	94	57	105						0
05	B01-MW-03-0504	WU1503-2	79	50	77						0
06	G01-MW-03-0504	WU1503-3	37	24*	33						1
07	G01-MW-10-0504	WU1503-4	33	41	34						0
08	G01-MW-12-0504	WU1503-5	51	51	55						0
09	A824-MW-01-0504	WU1519-2	77	80	79						0
10	RR-MW-06-0504	WU1519-1RA	56	53	50						0
11	A824-MW-02-0504	WU1519-3	76	65	46						0
12	A824-MW-03-0504	WU1519-4	88	37	60						0
13	KW-DUP-03-0504	WU1519-5	80	83	107						0
14	FC-MW-05-0504	WU1529-1	78	48	136						0
15	FC-MW-06-0504	WU1529-2	89	69	86						0
16	FC-MW-22-0504	WU1529-3	79	84	112						0
17	KW-DUP-01-0504	WU1529-4	85	108	119						0
18	G01-MW02-0504	WU1529-5	43	30	56						0
19	G01-MW04-0504	WU1529-6	45	52	52						0
20	G01-MW05-0504	WU1529-7	75	79	67						0
21	G01-MW11-0504	WU1529-8	68	80	71						0
22	G01-MW-12-0504	WU1503-5DL2	D	D	D						0
23	WG7768-BLANK	WG7768-1	61	86	90						0
24	WG7768-LCS	WG7768-2	73	57	68						0
25	WG7805-LCS	WG7805-2	81	55	106						0
26	WG7805-LCSD	WG7805-3	58	51	122						0
27	G01-MW-10-0504	WU1503-4DL2	36	43	32						0
28	FC-MW-22-0504	WU1529-3DL2	D	D	D						0

		QC LIMITS
S1	= 2-Methylnaphthalene-d1	(30-150)
S2	= Fluorene-d10	(30-150)
S3	= Pyrene-d10	(30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

Katahdin Analytical Services 2000003

FORM 2
WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	KW-DUP-01-0504	WU1529-4DL2	D	D	D						0
02	G01-MW05-0504	WU1529-7DL2	D	D	D						0
03	G01-MW11-0504	WU1529-8DL2	D	D	D						0
04	WG7805-BLANK	WG7805-1RA	28*	50	32						1
05	RR-MW-06-0504MS	WG7768-3RA	54	56	36						0
06	RR-MW-06-0504MSD	WG7768-4RA	44	49	33						0
07											
08											
09											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

		QC LIMITS
S1	= 2-Methylnaphthalene-d1	(30-150)
S2	= Fluorene-d10	(30-150)
S3	= Pyrene-d10	(30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

Katahdin Analytical Services 2000004

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG7760-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: X5454 Lab Sample ID: WG7760-1RA

Instrument ID: GCMS-X Date Extracted: 05/24/04

Matrix: (soil/water) WATER Date Analyzed: 06/03/04

Level: (low/med) LOW Time Analyzed: 1832

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG7760-LCSD	WG7760-3	X5436	06/02/04	1721
02	WG7760-LCS	WG7760-2RA	X5455	06/03/04	1916
03	B01-MW-01-0504	WU1503-1	X5471	06/15/04	2258
04	B01-MW-03-0504	WU1503-2	X5472	06/15/04	2343
05	G01-MW-03-0504	WU1503-3	X5473	06/16/04	0027
06	G01-MW-10-0504	WU1503-4	X5474	06/16/04	0112
07	G01-MW-12-0504	WU1503-5	X5475	06/16/04	0156
08	G01-MW-12-0504	WU1503-5DL2	X5496	06/17/04	1519
09	G01-MW-10-0504	WU1503-4DL2	X5510	06/18/04	1309
10					
11					
12					
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30					

COMMENTS:

FORM IV SV

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG7768-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: X5501 Lab Sample ID: WG7768-1

Instrument ID: GCMS-X Date Extracted: 05/25/04

Matrix: (soil/water) WATER Date Analyzed: 06/17/04

Level: (low/med) LOW Time Analyzed: 1903

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	A824-MW-01-0504	WU1519-2	X5477	06/16/04	0325
02	RR-MW-06-0504	WU1519-1RA	X5479	06/16/04	1255
03	A824-MW-02-0504	WU1519-3	X5480	06/16/04	1340
04	A824-MW-03-0504	WU1519-4	X5481	06/16/04	1424
05	KW-DUP-03-0504	WU1519-5	X5482	06/16/04	1509
06	WG7768-LCS	WG7768-2	X5502	06/17/04	1947
07	RR-MW-06-0504MS	WG7768-3RA	X5516	06/18/04	1737
08	RR-MW-06-0504MSD	WG7768-4RA	X5517	06/18/04	1821
09					
10					
11					
12					
13					
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27					
28					
29					
30					

COMMENTS:

FORM IV SV

Katahdin Analytical Services 2000006

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG7805-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: X5515 Lab Sample ID: WG7805-1RA

Instrument ID: GCMS-X Date Extracted: 05/26/04

Matrix: (soil/water) WATER Date Analyzed: 06/18/04

Level: (low/med) LOW Time Analyzed: 1652

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	FC-MW-05-0504	WU1529-1	X5483	06/16/04	1554
02	FC-MW-06-0504	WU1529-2	X5484	06/16/04	1639
03	FC-MW-22-0504	WU1529-3	X5485	06/16/04	1724
04	KW-DUP-01-0504	WU1529-4	X5486	06/16/04	1809
05	G01-MW02-0504	WU1529-5	X5487	06/16/04	1854
06	G01-MW04-0504	WU1529-6	X5488	06/16/04	1938
07	G01-MW05-0504	WU1529-7	X5489	06/16/04	2022
08	G01-MW11-0504	WU1529-8	X5490	06/16/04	2106
09	WG7805-LCS	WG7805-2	X5506	06/17/04	2245
10	WG7805-LCSD	WG7805-3	X5507	06/17/04	2330
11	FC-MW-22-0504	WU1529-3DL2	X5511	06/18/04	1354
12	KW-DUP-01-0504	WU1529-4DL2	X5512	06/18/04	1439
13	G01-MW05-0504	WU1529-7DL2	X5513	06/18/04	1524
14	G01-MW11-0504	WU1529-8DL2	X5514	06/18/04	1608
15					
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COMMENTS:

Katahdin Analytical Services 2000007

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 05/24/04
Analysis Date: 06/03/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WG7760-1RA
Client ID: WG7760-Blank
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7760
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.080
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.090
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.080
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
7297-45-2	2-Methylnaphthalene-d10		91%				
81103-79-9	Fluorene-d10		86%				
1718-52-1	Pyrene-d10		*155%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 05/25/04
Analysis Date: 06/17/04
Report Date: 06/24/2004
Matrix: WATER
% Solids: NA

Lab ID: WG7768-1
Client ID: WG7768-Blank
SDG: CTO301318-1
Extracted by: KM
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7768
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.080
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.090
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.080
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
7297-45-2	2-Methylnaphthalene-d10		61%				
81103-79-9	Fluorene-d10		86%				
1718-52-1	Pyrene-d10		90%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 05/26/04
Analysis Date: 06/18/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WG7805-1RA
Client ID: WG7805-Blank
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7805
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.080
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.090
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.080
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
7297-45-2	2-Methylnaphthalene-d10		* 28%				
81103-79-9	Fluorene-d10		50%				
1718-52-1	Pyrene-d10		32%				

FORM 5

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: XD270 DFTPP Injection Date: 05/27/04

Instrument ID: GCMS-X DFTPP Injection Time: 1036

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	55.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	62.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	40.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	20.3
365	1.0 - 100.0% of mass 198	2.5
441	0.0 - 100.0% of mass 443	6.7 (43.7)2
442	40.0 - 100.0% of mass 198	75.3
443	17.0 - 23.0% of mass 442	15.2 (20.2)3

1-Value is % mass 69 2-Value is % mass 443

3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00X0527	X5395	05/27/04	1106
02		SSTD3.00X0527	X5396	05/27/04	1150
03		SSTD2.00X0527	X5397	05/27/04	1235
04		SSTD0.50X0527	X5398	05/27/04	1320
05		SSTD0.20X0527	X5400	05/27/04	1456
06					
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Katahdin Analytical Services 2000015

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: XD272 DFTPP Injection Date: 06/02/04

Instrument ID: GCMS-X DFTPP Injection Time: 1318

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	74.7
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	40.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	23.4
365	1.0 - 100.0% of mass 198	3.0
441	0.0 - 100.0% of mass 443	15.1 (80.2)2
442	40.0 - 100.0% of mass 198	90.6
443	17.0 - 23.0% of mass 442	18.8 (20.7)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00X0602	X5433	06/02/04	1345
02	WG7760-LCSD	WG7760-3	X5436	06/02/04	1721
03					
04					
05					
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FORM V SV

Katahdin Analytical Services 2000016

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: XD273 DFTPP Injection Date: 06/03/04

Instrument ID: GCMS-X DFTPP Injection Time: 1334

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	66.6
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	41.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	22.9
365	1.0 - 100.0% of mass 198	2.8
441	0.0 - 100.0% of mass 443	14.2 (86.0)2
442	40.0 - 100.0% of mass 198	89.1
443	17.0 - 23.0% of mass 442	16.5 (18.5)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00X0603	X5449	06/03/04	1448
02		SSTD3.00X0603	X5450	06/03/04	1534
03		SSTD2.00X0603	X5451	06/03/04	1618
04		SSTD0.50X0603	X5452	06/03/04	1703
05		SSTD0.20X0603	X5453	06/03/04	1747
06	WG7760-BLANK	WG7760-1RA	X5454	06/03/04	1832
07	WG7760-LCS	WG7760-2RA	X5455	06/03/04	1916
08					
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FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: XD278 DFTPP Injection Date: 06/15/04

Instrument ID: GCMS-X DFTPP Injection Time: 1632

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	58.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	70.6
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	40.0 - 60.0% of mass 198	42.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	22.0
365	1.0 - 100.0% of mass 198	2.4
441	0.0 - 100.0% of mass 443	12.7 (89.9)2
442	40.0 - 100.0% of mass 198	76.5
443	17.0 - 23.0% of mass 442	14.1 (18.4)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00X0615	X5463	06/15/04	1652
02		SSTD3.00X0615	X5464	06/15/04	1747
03		SSTD2.00X0615	X5465	06/15/04	1832
04		SSTD0.50X0615	X5466	06/15/04	1916
05		SSTD0.20X0615	X5467	06/15/04	2001
06	B01-MW-01-0504	WU1503-1	X5471	06/15/04	2258
07	B01-MW-03-0504	WU1503-2	X5472	06/15/04	2343
08	G01-MW-03-0504	WU1503-3	X5473	06/16/04	0027
09	G01-MW-10-0504	WU1503-4	X5474	06/16/04	0112
10	G01-MW-12-0504	WU1503-5	X5475	06/16/04	0156
11	A824-MW-01-0504	WU1519-2	X5477	06/16/04	0325
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Katahdin Analytical Services 2000018

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: XD279 DFTPP Injection Date: 06/16/04

Instrument ID: GCMS-X DFTPP Injection Time: 1141

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	58.6
68	Less than 2.0% of mass 69	0.2 (0.3)1
69	Less than 100.0% of mass 198	67.3
70	Less than 2.0% of mass 69	0.3 (0.4)1
127	40.0 - 60.0% of mass 198	40.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	21.4
365	1.0 - 100.0% of mass 198	2.4
441	0.0 - 100.0% of mass 443	13.0 (89.5)2
442	40.0 - 100.0% of mass 198	78.1
443	17.0 - 23.0% of mass 442	14.5 (18.6)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00X0616	X5478	06/16/04	1203
02	RR-MW-06-0504	WU1519-1RA	X5479	06/16/04	1255
03	A824-MW-02-0504	WU1519-3	X5480	06/16/04	1340
04	A824-MW-03-0504	WU1519-4	X5481	06/16/04	1424
05	KW-DUP-03-0504	WU1519-5	X5482	06/16/04	1509
06	FC-MW-05-0504	WU1529-1	X5483	06/16/04	1554
07	FC-MW-06-0504	WU1529-2	X5484	06/16/04	1639
08	FC-MW-22-0504	WU1529-3	X5485	06/16/04	1724
09	KW-DUP-01-0504	WU1529-4	X5486	06/16/04	1809
10	G01-MW02-0504	WU1529-5	X5487	06/16/04	1854
11	G01-MW04-0504	WU1529-6	X5488	06/16/04	1938
12	G01-MW05-0504	WU1529-7	X5489	06/16/04	2022
13	G01-MW11-0504	WU1529-8	X5490	06/16/04	2106
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FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: XD280 DFTPP Injection Date: 06/17/04

Instrument ID: GCMS-X DFTPP Injection Time: 1316

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	68.3
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	40.0 - 60.0% of mass 198	43.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	21.2
365	1.0 - 100.0% of mass 198	2.0
441	0.0 - 100.0% of mass 443	11.4 (88.3)2
442	40.0 - 100.0% of mass 198	69.2
443	17.0 - 23.0% of mass 442	13.0 (18.7)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00X0617	X5494	06/17/04	1349
02	G01-MW-12-0504	WU1503-5DL2	X5496	06/17/04	1519
03	WG7768-BLANK	WG7768-1	X5501	06/17/04	1903
04	WG7768-LCS	WG7768-2	X5502	06/17/04	1947
05	WG7805-LCS	WG7805-2	X5506	06/17/04	2245
06	WG7805-LCSD	WG7805-3	X5507	06/17/04	2330
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FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: XD281 DFTPP Injection Date: 06/18/04

Instrument ID: GCMS-X DFTPP Injection Time: 1154

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	57.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	66.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	42.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	20.6
365	1.0 - 100.0% of mass 198	2.6
441	0.0 - 100.0% of mass 443	11.0 (82.5)2
442	40.0 - 100.0% of mass 198	69.5
443	17.0 - 23.0% of mass 442	13.4 (19.2)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00X0618	X5509	06/18/04	1219
02	G01-MW-10-0504	WU1503-4DL2	X5510	06/18/04	1309
03	FC-MW-22-0504	WU1529-3DL2	X5511	06/18/04	1354
04	KW-DUP-01-0504	WU1529-4DL2	X5512	06/18/04	1439
05	G01-MW05-0504	WU1529-7DL2	X5513	06/18/04	1524
06	G01-MW11-0504	WU1529-8DL2	X5514	06/18/04	1608
07	WG7805-BLANK	WG7805-1RA	X5515	06/18/04	1652
08	RR-MW-06-0504MS	WG7768-3RA	X5516	06/18/04	1737
09	RR-MW-06-0504MSD	WG7768-4RA	X5517	06/18/04	1821
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FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID (Standard): X5433 Date Analyzed: 06/02/04

Instrument ID: GCMS-X Time Analyzed: 1345

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
12 HOUR STD		23658		7.58		88977		10.41		45309		14.50	
UPPER LIMIT		47316		8.08		177954		10.91		90618		15.00	
LOWER LIMIT		11829		7.08		44489		9.91		22655		14.00	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	WG7760-LCSD	WG7760-3		23660		7.58		83315		10.41		40522	
02													
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IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID (Standard): X5433 Date Analyzed: 06/02/04

Instrument ID: GCMS-X Time Analyzed: 1345

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
12 HOUR STD		66995		17.88		41663		24.10		21999		27.21	
UPPER LIMIT		133990		18.38		83326		24.60		43998		27.71	
LOWER LIMIT		33498		17.38		20832		23.60		11000		26.71	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	WG7760-LCSD	WG7760-3		72146		17.88		56932		24.11		28446		27.21
02													
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IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID (Standard): X5449 Date Analyzed: 06/03/04

Instrument ID: GCMS-X Time Analyzed: 1448

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
12 HOUR STD		20605		7.54		75989		10.36		37217		14.45	
UPPER LIMIT		41210		8.04		151978		10.86		74434		14.95	
LOWER LIMIT		10303		7.04		37995		9.86		18609		13.95	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	WG7760-BLANK	WG7760-1RA		17764		7.54		64698		10.36		39189		14.45	
02	WG7760-LCS	WG7760-2RA		17999		7.54		66042		10.36		29720		14.45	
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IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID (Standard): X5449 Date Analyzed: 06/03/04

Instrument ID: GCMS-X Time Analyzed: 1448

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
12 HOUR STD		53810		17.82		52502		24.05		47246		27.15	
UPPER LIMIT		107620		18.32		105004		24.55		94492		27.65	
LOWER LIMIT		26905		17.32		26251		23.55		23623		26.65	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	WG7760-BLANK	WG7760-1RA		49374		17.82		33630		24.06		27327	27.15
02	WG7760-LCS	WG7760-2RA		46691		17.82		41156		24.05		28546	27.15
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IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID (Standard): X5463 Date Analyzed: 06/15/04

Instrument ID: GCMS-X Time Analyzed: 1652

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
12 HOUR STD		12631		7.54		40459		10.37		19258		14.45	
UPPER LIMIT		25262		8.04		80918		10.87		38516		14.95	
LOWER LIMIT		6316		7.04		20230		9.87		9629		13.95	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	B01-MW-01-0504	WU1503-1		12549		7.54		35588		10.37		26236		14.45	
02	B01-MW-03-0504	WU1503-2		11540		7.54		32987		10.37		24734		14.45	
03	G01-MW-03-0504	WU1503-3		12526		7.53		43795		10.36		23413		14.45	
04	G01-MW-10-0504	WU1503-4		10882		7.53		31788		10.36		17203		14.45	
05	G01-MW-12-0504	WU1503-5		12517		7.53		36660		10.36		17317		14.45	
06	A824-MW-01-0504	WU1519-2		13301		7.53		39006		10.36		20180		14.45	
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IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID (Standard): X5463 Date Analyzed: 06/15/04

Instrument ID: GCMS-X Time Analyzed: 1652

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
12 HOUR STD		23921		17.85		12666		24.06		6940		27.16	
UPPER LIMIT		47842		18.35		25332		24.56		13880		27.66	
LOWER LIMIT		11961		17.35		6333		23.56		3470		26.66	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	B01-MW-01-0504	WU1503-1		21823		17.85		9377		24.07		4477	27.16
02	B01-MW-03-0504	WU1503-2		18973		17.85		10666		24.07		3924	27.16
03	G01-MW-03-0504	WU1503-3		26395		17.85		10478		24.06		4539	27.17
04	G01-MW-10-0504	WU1503-4		22892		17.82		12900		24.06		4625	27.17
05	G01-MW-12-0504	WU1503-5		22883		17.85		9552		24.06		3545	27.17
06	A824-MW-01-0504	WU1519-2		29125		17.85		13079		24.06		4421	27.17
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IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

Katahdin Analytical Services 2000027

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID (Standard): X5478 Date Analyzed: 06/16/04

Instrument ID: GCMS-X Time Analyzed: 1203

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
12 HOUR STD		11267		7.53		39128		10.36		25035		14.45	
UPPER LIMIT		22534		8.03		78256		10.86		50070		14.95	
LOWER LIMIT		5634		7.03		19564		9.86		12518		13.95	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	RR-MW-06-0504	WU1519-1RA		11097		7.54		35109		10.36		16793		14.45	
02	A824-MW-02-0504	WU1519-3		11385		7.53		36734		10.36		14777		14.45	
03	A824-MW-03-0504	WU1519-4		9781		7.53		28710		10.36		22319		14.45	
04	KW-DUP-03-0504	WU1519-5		11118		7.54		34511		10.36		16387		14.45	
05	FC-MW-05-0504	WU1529-1		12135		7.53		37022		10.36		26932		14.45	
06	FC-MW-06-0504	WU1529-2		13164		7.53		37067		10.36		19459		14.45	
07	FC-MW-22-0504	WU1529-3		13375		7.53		39755		10.36		18527		14.45	
08	KW-DUP-01-0504	WU1529-4		14282		7.53		47616		10.37		20518		14.45	
09	G01-MW02-0504	WU1529-5		12640		7.54		35334		10.36		27530		14.45	
10	G01-MW04-0504	WU1529-6		11999		7.53		37146		10.36		18907		14.45	
11	G01-MW05-0504	WU1529-7		13594		7.53		33279		10.35		15726		14.45	
12	G01-MW11-0504	WU1529-8		13877		7.53		41693		10.36		19800		14.45	
13															
14															
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18															
19															
20															

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID (Standard): X5478 Date Analyzed: 06/16/04

Instrument ID: GCMS-X Time Analyzed: 1203

		IS4 (PHN) AREA #		RT #	IS5 (CRY) AREA #		RT #	IS6 (PRY) AREA #		RT #
12 HOUR STD		19698		17.85	8966		24.06	3797		27.17
UPPER LIMIT		39396		18.35	17932		24.56	7594		27.67
LOWER LIMIT		9849		17.35	4483		23.56	1899		26.67
	CLIENT SAMPLE ID	LAB SAMPLE ID								
01	RR-MW-06-0504	WU1519-1RA	18984	17.85	9485	24.07		2363	27.17	
02	A824-MW-02-0504	WU1519-3	19804	17.85	11607	24.07		4300	27.17	
03	A824-MW-03-0504	WU1519-4	16086	17.85	9110	24.07		2167	27.18	
04	KW-DUP-03-0504	WU1519-5	23544	17.85	10904	24.07		3844	27.17	
05	FC-MW-05-0504	WU1529-1	24589	17.85	9217	24.07		3666	27.18	
06	FC-MW-06-0504	WU1529-2	25577	17.85	13842	24.07		3979	27.17	
07	FC-MW-22-0504	WU1529-3	24008	17.85	10258	24.06		4824	27.17	
08	KW-DUP-01-0504	WU1529-4	26027	17.85	11368	24.06		4912	27.16	
09	G01-MW02-0504	WU1529-5	23373	17.85	10707	24.07		4790	27.18	
10	G01-MW04-0504	WU1529-6	29209	17.82	13836	24.06		4505	27.17	
11	G01-MW05-0504	WU1529-7	23123	17.82	13424	24.06		4169	27.17	
12	G01-MW11-0504	WU1529-8	24346	17.82	13563	24.06		4138	27.17	
13										
14										
15										
16										
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18										
19										
20										

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

Katahdin Analytical Services 2000029

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID (Standard): X5494 Date Analyzed: 06/17/04

Instrument ID: GCMS-X Time Analyzed: 1349

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD		12735	7.54	40579	10.36	24754	14.45
UPPER LIMIT		25470	8.04	81158	10.86	49508	14.95
LOWER LIMIT		6368	7.04	20290	9.86	12377	13.95
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	G01-MW-12-0504	WU1503-5DL2	10392	7.54	29801	10.36	14295	14.45
02	WG7768-BLANK	WG7768-1	12368	7.54	35283	10.37	14086	14.45
03	WG7768-LCS	WG7768-2	13571	7.54	35940	10.36	16970	14.45
04	WG7805-LCS	WG7805-2	12919	7.53	43897	10.36	26669	14.45
05	WG7805-LCSD	WG7805-3	10446	7.54	29701	10.37	15070	14.45
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IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID (Standard): X5494 Date Analyzed: 06/17/04

Instrument ID: GCMS-X Time Analyzed: 1349

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
12 HOUR STD		18979		17.85		7991		24.07		3491		27.18	
UPPER LIMIT		37958		18.35		15982		24.57		6982		27.68	
LOWER LIMIT		9490		17.35		3996		23.57		1746		26.68	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	G01-MW-12-0504	WU1503-5DL2		19189		17.85		8322		24.10		1753		27.19	
02	WG7768-BLANK	WG7768-1		21639		17.85		11616		24.09		4008		27.19	
03	WG7768-LCS	WG7768-2		18755		17.85		10131		24.07		2768		27.18	
04	WG7805-LCS	WG7805-2		22967		17.85		9932		24.07		2619		27.18	
05	WG7805-LCSD	WG7805-3		18047		17.85		6167		24.07		2349		27.19	
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IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID (Standard): X5509 Date Analyzed: 06/18/04

Instrument ID: GCMS-X Time Analyzed: 1219

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD		14490	7.44	47317	10.27	19120	14.34
UPPER LIMIT		28980	7.94	94634	10.77	38240	14.84
LOWER LIMIT		7245	6.94	23659	9.77	9560	13.84
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	G01-MW-10-0504	WU1503-4DL2	12548	7.44	37625	10.27	19092	14.34
02	FC-MW-22-0504	WU1529-3DL2	11520	7.44	36011	10.27	17950	14.34
03	KW-DUP-01-0504	WU1529-4DL2	11840	7.44	33572	10.27	16162	14.34
04	G01-MW05-0504	WU1529-7DL2	11337	7.44	32448	10.27	15348	14.34
05	G01-MW11-0504	WU1529-8DL2	9836	7.44	27110	10.27	22622	14.34
06	WG7805-BLANK	WG7805-1RA	12983	7.44	38564	10.27	15548	14.34
07	RR-MW-06-0504MS	WG7768-3RA	14224	7.44	41090	10.26	17115	14.34
08	RR-MW-06-0504MSD	WG7768-4RA	15531	7.44	51041	10.27	20585	14.34
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID (Standard): X5509 Date Analyzed: 06/18/04

Instrument ID: GCMS-X Time Analyzed: 1219

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD		23528	17.72	19648	23.94	10922	27.03
UPPER LIMIT		47056	18.22	39296	24.44	21844	27.53
LOWER LIMIT		11764	17.22	9824	23.44	5461	26.53
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	G01-MW-10-0504	WU1503-4DL2	25966	17.71	18892	23.94	10081	27.03
02	FC-MW-22-0504	WU1529-3DL2	18550	17.72	9240*	23.94	5329*	27.03
03	KW-DUP-01-0504	WU1529-4DL2	14864	17.72	11710	23.94	4685*	27.04
04	G01-MW05-0504	WU1529-7DL2	19974	17.72	13175	23.94	6184	27.03
05	G01-MW11-0504	WU1529-8DL2	15767	17.72	5412*	23.94	3279*	27.03
06	WG7805-BLANK	WG7805-1RA	17670	17.71	13182	23.94	6083	27.03
07	RR-MW-06-0504MS	WG7768-3RA	21018	17.72	17760	23.94	7856	27.03
08	RR-MW-06-0504MSD	WG7768-4RA	28023	17.71	21882	23.94	11940	27.03
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GCMS-X Calibration Date(s): 05/27/04 05/27/04

Column: DB5-MS ID: 0.25 (mm) Calibration Time(s): 1106 1456

LAB FILE ID: RF0.2: X5400 RF0.5: X5398 RF1: X5395
RF2: X5397 RF3: X5396

COMPOUND	RF0.2	RF0.5	RF1	RF2	RF3	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2	
Naphthalene	0.538	0.642	0.697	0.656	0.637	AVRG		0.63409812	9.201	15.000	
2-Methylnaphthalene	0.323	0.352	0.368	0.371	0.373	AVRG		0.35725725	5.797	15.000	
Acenaphthylene	0.526	0.565	0.356	0.567	0.549	AVRG		0.51265572	17.368	15.000	<-
Acenaphthene	0.613	0.746	0.813	0.802	0.920	AVRG		0.77884976	14.394	30.000	
Fluorene	3435	10015	31253	55099	73649	LINR	0.13465640	1.14975559	0.99509	0.99000	
Phenanthrene	0.645	0.734	0.758	0.804	0.798	AVRG		0.74794754	8.585	15.000	
Anthracene	4246	10908	31842	70114	97173	LINR	0.11927160	1.24893263	0.99583	0.99000	
Fluoranthene	0.540	0.507	0.471	0.605	0.595	AVRG		0.54363522	10.544	15.000	
Pyrene	0.927	1.026	1.332	1.119	1.048	AVRG		1.09052138	13.872	15.000	
Benzo(a)anthracene	0.324	0.307	0.395	0.364	0.403	AVRG		0.35861210	11.846	15.000	
Chrysene	0.875	1.174	1.120	0.842	0.831	AVRG		0.96836048	17.033	15.000	<-
Benzo(b)fluoranthene	0.522	0.435	0.595	0.515	0.592	AVRG		0.53200853	12.379	15.000	
Benzo(k)fluoranthene	1.220	0.922	1.303	1.256	1.337	AVRG		1.20756523	13.707	15.000	
Benzo(a)pyrene	1052	4328	18537	30825	43968	LINR	3.849e-002	1.32321095	0.99350	0.99000	
Indeno(1,2,3-cd)pyrene	0.831	0.365	0.401	0.354	0.432	AVRG		0.47662227	42.030	15.000	<-
Dibenzo(a,h)anthracene	0.522	0.411	0.581	0.545	0.644	AVRG		0.54064531	15.881	15.000	<-
Benzo(g,h,i)perylene	1943	4239	18750	33400	54539	LINR	0.10326700	1.09682586	0.99170	0.99000	
1-Methylnaphthalene	0.296	0.350	0.378	0.369	0.362	AVRG		0.35101150	9.210	15.000	
2-Methylnaphthalene-d10	0.262	0.268	0.279	0.266	0.283	AVRG		0.27159347	3.341	15.000	
Fluorene-d10	3681	10298	30602	51582	71903	LINR	0.12851820	1.19193689	0.99375	0.99000	
Pyrene-d10	0.615	0.715	0.914	0.799	0.758	AVRG		0.76040505	14.428	15.000	

Average %RSD test result.

Calculate Average %RSD: 16.17730713
Maximum Average %RSD: 30.00000000

Note: Passes Average %RSD Test.

FORM VI SV

FORM 6

SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GCMS-X Calibration Date(s): 06/03/04 06/03/04

Column: DB5-MS ID: 0.25 (mm) Calibration Time(s): 1448 1747

LAB FILE ID: RF0.2: X5453 RF0.5: X5452 RF1: X5449

RF2: X5451 RF3: X5450

COMPOUND	RF0.2	RF0.5	RF1	RF2	RF3	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2	
Naphthalene	0.669	0.773	0.696	0.684	0.703	AVRG		0.70502017	5.679	15.000	
2-Methylnaphthalene	0.379	0.384	0.385	0.399	0.429	AVRG		0.39550340	5.125	15.000	
Acenaphthylene	1.005	1.112	1.144	1.153	1.306	AVRG		1.14396432	9.428	15.000	
Acenaphthene	0.710	0.758	0.796	0.766	0.847	AVRG		0.77541379	6.524	30.000	
Fluorene	0.642	0.755	0.751	0.775	0.886	AVRG		0.76196138	11.371	15.000	
Phenanthrene	0.738	0.789	0.749	0.774	0.830	AVRG		0.77615235	4.690	15.000	
Anthracene	0.703	0.727	0.793	0.852	0.784	AVRG		0.77193243	7.622	15.000	
Fluoranthene	0.724	0.676	0.695	0.735	0.814	AVRG		0.72882637	7.319	15.000	
Pyrene	0.834	0.837	0.798	0.947	0.851	AVRG		0.85372802	6.539	15.000	
Benzo(a)anthracene	4753	11810	39977	62480	139610	LINR	9.459e-002	1.42320639	0.99790	0.99000	
Chrysene	0.939	0.951	0.828	0.849	0.800	AVRG		0.87358772	7.772	15.000	
Benzo(b)fluoranthene	4679	12182	43926	69339	155710	LINR	0.12447400	1.05733861	0.99594	0.99000	
Benzo(k)fluoranthene	1.138	1.230	0.934	1.222	1.085	AVRG		1.12201493	10.792	15.000	
Benzo(a)pyrene	4224	11321	38920	59455	141440	LINR	0.13181560	1.18068072	0.99556	0.99000	
Indeno(1,2,3-cd)pyrene	0.462	0.597	0.660	0.639	0.685	AVRG		0.60881098	14.487	15.000	
Dibenzo(a,h)anthracene	0.654	0.682	0.728	0.714	0.752	AVRG		0.70607302	5.461	15.000	
Benzo(g,h,i)perylene	0.824	0.881	0.897	0.857	0.807	AVRG		0.85336176	4.408	15.000	
1-Methylnaphthalene	0.348	0.374	0.373	0.385	0.412	AVRG		0.37842216	6.098	15.000	
2-Methylnaphthalene-d10	0.300	0.284	0.291	0.297	0.325	AVRG		0.29935635	5.201	15.000	
Fluorene-d10	0.658	0.694	0.754	0.777	0.962	AVRG		0.76899749	15.275	15.000	<-
Pyrene-d10	0.608	0.612	0.637	0.706	0.686	AVRG		0.64969572	6.808	15.000	

Average %RSD test result.

Calculate Average %RSD: 11.00811291

Maximum Average %RSD: 30.00000000

Note: Passes Average %RSD Test.

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GCMS-X Calibration Date(s): 06/15/04 06/15/04

Column: DB5-MS ID: 0.25 (mm) Calibration Time(s): 1652 2001

LAB FILE ID: RF0.2: X5467 RF0.5: X5466 RF1: X5463
RF2: X5465 RF3: X5464

COMPOUND	RF0.2	RF0.5	RF1	RF2	RF3	CURVE	COEFF. A1	%RSD OR R^2	MAX %RSD OR R^2	
Naphthalene	0.875	0.903	0.767	0.799	0.800	AVRG	0.82900838	6.926	15.000	
2-Methylnaphthalene	0.389	0.464	0.423	0.417	0.443	AVRG	0.42731149	6.573	15.000	
Acenaphthylene	1.244	1.232	1.272	1.564	1.528	AVRG	1.36797005	11.951	15.000	
Acenaphthene	0.915	0.830	0.820	1.035	0.992	AVRG	0.91840620	10.367	30.000	
Fluorene	0.835	0.838	0.842	1.121	1.053	AVRG	0.93775281	14.783	15.000	
Phenanthrene	0.716	0.797	0.802	0.890	0.894	AVRG	0.81986027	9.091	15.000	
Anthracene	0.876	0.920	0.852	0.995	0.989	AVRG	0.92673284	6.980	15.000	
Fluoranthene	0.664	0.838	0.722	0.824	0.816	AVRG	0.77273098	9.870	15.000	
Pyrene	1.796	1.858	1.453	1.541	1.952	AVRG	1.72008170	12.386	15.000	
Benzo(a)anthracene	0.751	0.946	0.924	0.886	1.028	AVRG	0.90711359	11.197	15.000	
Chrysene	1.047	1.308	1.097	1.270	1.239	AVRG	1.19212945	9.550	15.000	
Benzo(b)fluoranthene	1.090	1.180	1.361	1.372	1.632	AVRG	1.32695753	15.724	15.000	<-
Benzo(k)fluoranthene	1.577	1.916	1.744	1.912	2.075	AVRG	1.84450529	10.305	15.000	
Benzo(a)pyrene	0.936	1.067	1.029	1.188	1.280	AVRG	1.09976062	12.292	30.000	
Indeno(1,2,3-cd)pyrene	0.940	0.782	0.648	0.733	0.679	AVRG	0.75611678	15.162	15.000	<-
Dibenzo(a,h)anthracene	0.821	0.490	0.579	0.736	0.649	AVRG	0.65520202	19.754	15.000	<-
Benzo(g,h,i)perylene	0.867	0.580	0.677	0.902	0.759	AVRG	0.75696308	17.568	15.000	<-
1-Methylnaphthalene	0.412	0.449	0.411	0.425	0.441	AVRG	0.42760457	3.984	15.000	
2-Methylnaphthalene-d10	0.283	0.304	0.264	0.272	0.308	AVRG	0.28604624	6.797	15.000	
Fluorene-d10	0.712	0.671	0.738	0.833	0.870	AVRG	0.76471426	10.973	15.000	
Pyrene-d10	1.348	1.223	0.993	0.998	1.271	AVRG	1.16669212	13.910	15.000	

Average %RSD test result.

Calculate Average %RSD: 11.49244118
Maximum Average %RSD: 30.00000000

Note: Passes Average %RSD Test.

FORM VI SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GCMS-X Calibration Date: 06/02/04 Time: 1345

Lab File ID: X5433 Init. Calib. Date(s): 05/27/04 05/27/04

Init. Calib. Times: 1106 1456

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Naphthalene	0.6340000	0.6845600	0.6845600	0.01	7.97	100.00	AVRG
2-Methylnaphthalene	0.3570000	0.3959800	0.3959800	0.01	10.92	100.00	AVRG
Acenaphthylene	0.5130000	0.3284300	0.3284300	0.01	-35.98	100.00	AVRG
Acenaphthene	0.7790000	0.7261400	0.7261400	0.01	-6.78	20.00	AVRG
Fluorene	1.0221000	1.0000000	0.7952800	0.01	2.21	100.00	LINR
Phenanthrene	0.7480000	0.7058300	0.7058300	0.01	-5.64	100.00	AVRG
Anthracene	0.7802600	1.0000000	0.5483400	0.01	-21.97	100.00	LINR
Fluoranthene	0.5440000	0.5548000	0.5548000	0.01	1.98	20.00	AVRG
Pyrene	1.0900000	1.1084000	1.1084000	0.01	1.69	100.00	AVRG
Benzo(a)anthracene	0.3590000	0.5260300	0.5260300	0.01	46.53	100.00	AVRG
Chrysene	0.9680000	0.9039600	0.9039600	0.01	-6.62	100.00	AVRG
Benzo(b)fluoranthene	0.5320000	0.6653000	0.6653000	0.01	25.06	100.00	AVRG
Benzo(k)fluoranthene	1.2080000	1.3219000	1.3219000	0.01	9.43	100.00	AVRG
Benzo(a)pyrene	0.8492500	1.0000000	0.6185400	0.01	-15.08	20.00	LINR
Indeno(1,2,3-cd)pyrene	0.4770000	0.4871100	0.4871100	0.01	2.12	100.00	AVRG
Dibenzo(a,h)anthracene	0.5410000	0.2824500	0.2824500	0.01	-47.79	100.00	AVRG
Benzo(g,h,i)perylene	0.7041200	1.0000000	0.5666400	0.01	-29.59	100.00	LINR
1-Methylnaphthalene	0.3510000	0.3767300	0.3767300	0.01	7.33	100.00	AVRG
2-Methylnaphthalene-d10	0.2720000	0.2940100	0.2940100	0.01	8.09	100.00	AVRG
Fluorene-d10	0.9817200	1.0000000	0.7373700	0.01	-1.83	100.00	LINR
Pyrene-d10	0.7600000	0.8729500	0.8729500	0.01	14.86	100.00	AVRG

FORM VII PEST

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GCMS-X Calibration Date: 06/16/04 Time: 1203

Lab File ID: X5478 Init. Calib. Date(s): 06/15/04 06/15/04

Init. Calib. Times: 1652 2001

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF OR AMOUNT	RRF1.0000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	0.8290000	0.7303600	0.01	-11.90	100.00	AVRG
2-Methylnaphthalene	0.4270000	0.3707600	0.01	-13.17	100.00	AVRG
Acenaphthylene	1.3680000	0.7425800	0.01	-45.72	100.00	AVRG
Acenaphthene	0.9180000	0.8619000	0.01	-6.11	20.00	AVRG
Fluorene	0.9380000	0.6947700	0.01	-25.93	100.00	AVRG
Phenanthrene	0.8200000	0.7738000	0.01	-5.63	100.00	AVRG
Anthracene	0.9260000	0.9054700	0.01	-2.22	100.00	AVRG
Fluoranthene	0.7730000	0.6842100	0.01	-11.49	20.00	AVRG
Pyrene	1.7200000	1.7894000	0.01	4.03	100.00	AVRG
Benzo(a)anthracene	0.9070000	0.6195800	0.01	-31.69	100.00	AVRG
Chrysene	1.1920000	1.3965000	0.01	17.16	100.00	AVRG
Benzo(b)fluoranthene	1.3270000	1.0002000	0.01	-24.63	100.00	AVRG
Benzo(k)fluoranthene	1.8450000	2.0140000	0.01	9.16	100.00	AVRG
Benzo(a)pyrene	1.1000000	1.0396000	0.01	-5.49	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.7560000	0.7353200	0.01	-2.74	100.00	AVRG
Dibenzo(a,h)anthracene	0.6550000	0.5773000	0.01	-11.86	100.00	AVRG
Benzo(g,h,i)perylene	0.7570000	0.6927600	0.01	-8.49	100.00	AVRG
1-Methylnaphthalene	0.4280000	0.3788000	0.01	-11.50	100.00	AVRG
2-Methylnaphthalene-d10	0.2860000	0.3414200	0.01	19.38	100.00	AVRG
Fluorene-d10	0.7650000	0.4567000	0.01	-40.30	100.00	AVRG
Pyrene-d10	1.1670000	1.1405000	0.01	-2.27	100.00	AVRG

FORM VII PEST

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GCMS-X Calibration Date: 06/17/04 Time: 1349

Lab File ID: X5494 Init. Calib. Date(s): 06/15/04 06/15/04

Init. Calib. Times: 1652 2001

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF OR AMOUNT	RRF1.0000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	0.8290000	0.7404000	0.01	-10.69	100.00	AVRG
2-Methylnaphthalene	0.4270000	0.3564400	0.01	-16.52	100.00	AVRG
Acenaphthylene	1.3680000	0.7343000	0.01	-46.32	100.00	AVRG
Acenaphthene	0.9180000	0.8856400	0.01	-3.52	20.00	AVRG
Fluorene	0.9380000	0.7004000	0.01	-25.33	100.00	AVRG
Phenanthrene	0.8200000	0.7318400	0.01	-10.75	100.00	AVRG
Anthracene	0.9260000	0.9256100	0.01	-0.04	100.00	AVRG
Fluoranthene	0.7730000	0.6630900	0.01	-14.22	20.00	AVRG
Pyrene	1.7200000	1.8697000	0.01	8.70	100.00	AVRG
Benzo(a)anthracene	0.9070000	0.6199000	0.01	-31.65	100.00	AVRG
Chrysene	1.1920000	1.7410000	0.01	46.06	100.00	AVRG
Benzo(b)fluoranthene	1.3270000	0.7775400	0.01	-41.41	100.00	AVRG
Benzo(k)fluoranthene	1.8450000	1.9357000	0.01	4.92	100.00	AVRG
Benzo(a)pyrene	1.1000000	1.0044000	0.01	-8.69	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.7560000	0.7676900	0.01	1.55	100.00	AVRG
Dibenzo(a,h)anthracene	0.6550000	0.5305100	0.01	-19.01	100.00	AVRG
Benzo(g,h,i)perylene	0.7570000	0.6049800	0.01	-20.08	100.00	AVRG
1-Methylnaphthalene	0.4280000	0.3891700	0.01	-9.07	100.00	AVRG
2-Methylnaphthalene-d10	0.2860000	0.3268500	0.01	14.28	100.00	AVRG
Fluorene-d10	0.7650000	0.4749800	0.01	-37.91	100.00	AVRG
Pyrene-d10	1.1670000	1.1313000	0.01	-3.06	100.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GCMS-X Calibration Date: 06/18/04 Time: 1219

Lab File ID: X5509 Init. Calib. Date(s): 06/15/04 06/15/04

Init. Calib. Times: 1652 2001

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF OR AMOUNT	RRF1.0000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	0.8290000	0.7590700	0.01	-8.44	100.00	AVRG
2-Methylnaphthalene	0.4270000	0.4228300	0.01	-0.98	100.00	AVRG
Acenaphthylene	1.3680000	1.2384000	0.01	-9.47	100.00	AVRG
Acenaphthene	0.9180000	0.9289100	0.01	1.19	20.00	AVRG
Fluorene	0.9380000	0.9353100	0.01	-0.29	100.00	AVRG
Phenanthrene	0.8200000	0.9365500	0.01	14.21	100.00	AVRG
Anthracene	0.9260000	0.8843200	0.01	-4.50	100.00	AVRG
Fluoranthene	0.7730000	0.7354600	0.01	-4.86	20.00	AVRG
Pyrene	1.7200000	1.0144000	0.01	-41.02	100.00	AVRG
Benzo(a)anthracene	0.9070000	0.7809400	0.01	-13.90	100.00	AVRG
Chrysene	1.1920000	0.9634400	0.01	-19.17	100.00	AVRG
Benzo(b)fluoranthene	1.3270000	1.0169000	0.01	-23.37	100.00	AVRG
Benzo(k)fluoranthene	1.8450000	1.7365000	0.01	-5.88	100.00	AVRG
Benzo(a)pyrene	1.1000000	0.9878800	0.01	-10.19	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.7560000	0.7058800	0.01	-6.63	100.00	AVRG
Dibenzo(a,h)anthracene	0.6550000	0.8614500	0.01	31.52	100.00	AVRG
Benzo(g,h,i)perylene	0.7570000	1.1684000	0.01	54.35	100.00	AVRG
1-Methylnaphthalene	0.4280000	0.4073300	0.01	-4.83	100.00	AVRG
2-Methylnaphthalene-d10	0.2860000	0.2451700	0.01	-14.28	100.00	AVRG
Fluorene-d10	0.7650000	0.7303800	0.01	-4.52	100.00	AVRG
Pyrene-d10	1.1670000	0.6116000	0.01	-47.59	100.00	AVRG

FORM VII PEST

FORM 2
WATER FL-PRO SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO301,318 NAS KEY WEST SDG No.: CTO301318-1

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 OTP#	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	WG7769-BLANK	WG7769-1	90	88							0
02	WG7769-LCS	WG7769-2	97	94							0
03	WG7803-BLANK	WG7803-1	90	84							0
04	WG7803-LCS	WG7803-2	112	109							0
05	WG7803-LCSD	WG7803-3	82	77*							1
06	G01-MW-03-0504	WU1503-3	92	91							0
07	G01-MW-10-0504	WU1503-4	111	101							0
08	G01-MW-12-0504	WU1503-5	92	85							0
09	RR-MW-06-0504	WU1519-1	99	94							0
10	A824-MW-01-0504	WU1519-2	104	98							0
11	A824-MW-02-0504	WU1519-3	95	91							0
12	A824-MW-03-0504	WU1519-4	100	92							0
13	KW-DUP-03-0504	WU1519-5	96	92							0
14	FC-MW-05-0504	WU1529-1	96	93							0
15	FC-MW-06-0504	WU1529-2	90	86							0
16	FC-MW-22-0504	WU1529-3	77	72*							1
17	KW-DUP-01-0504	WU1529-4	94	84							0
18	G01-MW02-0504	WU1529-5	87	81*							1
19	RR-MW-06-0504MS	WG7769-3	100	100							0
20	RR-MW-06-0504MSD	WG7769-4	83	85							0
21	G01-MW04-0504	WU1529-6	113	102							0
22	G01-MW05-0504	WU1529-7	86	78*							1
23	G01-MW11-0504	WU1529-8	111	100							0
24											
25											
26											
27											
28											

		QC LIMITS
S1	= n-Triacontane-D62	(42-193)
S2 (OTP)	= O-Terphenyl	(82-142)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG7769-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: CUF2105 Lab Sample ID: WG7769-1

Instrument ID: GC12 Date Extracted: 05/25/04

Matrix: (soil/water) WATER Date Analyzed: 06/18/04

Level: (low/med) LOW Time Analyzed: 2313

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG7769-LCS	WG7769-2	CUF2106	06/19/04	0023
02	G01-MW-03-0504	WU1503-3	CUF2110	06/19/04	0503
03	G01-MW-10-0504	WU1503-4	CUF2111	06/19/04	0613
04	G01-MW-12-0504	WU1503-5	CUF2112	06/19/04	0723
05	RR-MW-06-0504	WU1519-1	CUF2113	06/19/04	0833
06	A824-MW-01-0504	WU1519-2	CUF2114	06/19/04	0943
07	A824-MW-02-0504	WU1519-3	CUF2118	06/19/04	1423
08	A824-MW-03-0504	WU1519-4	CUF2119	06/19/04	1533
09	KW-DUP-03-0504	WU1519-5	CUF2120	06/19/04	1643
10	RR-MW-06-0504MS	WG7769-3	CUF2126	06/19/04	2345
11	RR-MW-06-0504MSD	WG7769-4	CUF2127	06/20/04	0055
12					
13					
14					
15					
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COMMENTS:

FORM IV SV

Katahdin Analytical Services 3000004

FORM 4

SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG7803-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO301,318 NAS KEY WEST SDG No.: CTO301318-1

Lab File ID: CUF2107 Lab Sample ID: WG7803-1

Instrument ID: GC12 Date Extracted: 05/26/04

Matrix: (soil/water) WATER Date Analyzed: 06/19/04

Level: (low/med) LOW Time Analyzed: 0133

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG7803-LCS	WG7803-2	CUF2108	06/19/04	0243
02	WG7803-LCSD	WG7803-3	CUF2109	06/19/04	0353
03	FC-MW-05-0504	WU1529-1	CUF2121	06/19/04	1754
04	FC-MW-06-0504	WU1529-2	CUF2122	06/19/04	1904
05	FC-MW-22-0504	WU1529-3	CUF2123	06/19/04	2014
06	KW-DUP-01-0504	WU1529-4	CUF2124	06/19/04	2124
07	G01-MW02-0504	WU1529-5	CUF2125	06/19/04	2234
08	G01-MW04-0504	WU1529-6	CUF2131	06/20/04	0536
09	G01-MW05-0504	WU1529-7	CUF2132	06/20/04	0646
10	G01-MW11-0504	WU1529-8	CUF2133	06/20/04	0757
11					
12					
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29					
30					

COMMENTS:

Katahdin Analytical Services 3000005

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO301,318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 05/25/04
Analysis Date: 06/18/04
Report Date: 06/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WG7769-1
Client ID: WG7769-Blank
SDG: CTO301318-1
Extracted by: MC
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7769
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	280
	n-Triacontane-D62		90%				
	O-Terphenyl		88%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO301,318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 05/26/04
Analysis Date: 06/19/04
Report Date: 06/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WG7803-1
Client ID: WG7803-Blank
SDG: CTO301318-1
Extracted by: JP
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7803
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	280
	n-Triacontane-D62		90%				
	O-Terphenyl		84%				

FORM 8
FL-PRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO301,318 NAS KEY WEST SDG No.: CTO301318-1

GC Column: ZB-1 ID: 0.53 (mm) Init. Calib. Date(s): 01/15/04 01/15/04

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.20 S2 : 24.42

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ICAL	FLPRO 5 UG/M	01/15/04	0329	18.20	24.42
02	ICAL	FLPRO 20 UG/	01/15/04	0438	18.20	24.42
03	ICAL	FLPRO 50 UG/	01/15/04	0548	18.20	24.42
04	ICAL	FLPRO 100UG/	01/15/04	0658	18.20	24.42
05	ICAL	FLPRO 200UG/	01/15/04	0809	18.20	24.42
06	INDSOURCE	FLPRO IND	01/15/04	0919	18.20	24.42
07	CV	FLPRO 50UG/M	06/18/04	1723	18.18	24.37
08	WG7769-BLANK	WG7769-1	06/18/04	2313	18.18	24.38
09	WG7769-LCS	WG7769-2	06/19/04	0023	18.18	24.37
10	WG7803-BLANK	WG7803-1	06/19/04	0133	18.18	24.38
11	WG7803-LCS	WG7803-2	06/19/04	0243	18.18	24.38
12	WG7803-LCSD	WG7803-3	06/19/04	0353	18.17	24.37
13	G01-MW-03-05	WU1503-3	06/19/04	0503	18.17	24.38
14	G01-MW-10-05	WU1503-4	06/19/04	0613	18.17	24.37
15	G01-MW-12-05	WU1503-5	06/19/04	0723	18.17	24.37
16	RR-MW-06-050	WU1519-1	06/19/04	0833	18.18	24.37
17	A824-MW-01-0	WU1519-2	06/19/04	0943	18.18	24.38
18	CV	FLPRO 50UG/M	06/19/04	1313	18.18	24.37
19	A824-MW-02-0	WU1519-3	06/19/04	1423	18.18	24.37
20	A824-MW-03-0	WU1519-4	06/19/04	1533	18.18	24.38

QC LIMITS

S1 = O-Terphenyl (+/- 0.36 MINUTES)
S2 = n-Triacontane-D62 (+/- 0.49 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Katahdin Analytical Services 3000011

FORM 8
FL-PRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO301,318 NAS KEY WEST SDG No.: CTO301318-1

GC Column: ZB-1 ID: 0.53 (mm) Init. Calib. Date(s): 01/15/04 01/15/04

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.20 S2 : 24.42

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	KW-DUP-03-05	WU1519-5	06/19/04	1643	18.18	24.38
02	FC-MW-05-050	WU1529-1	06/19/04	1754	18.18	24.38
03	FC-MW-06-050	WU1529-2	06/19/04	1904	18.18	24.38
04	FC-MW-22-050	WU1529-3	06/19/04	2014	18.17	24.38
05	KW-DUP-01-05	WU1529-4	06/19/04	2124	18.17	24.38
06	G01-MW02-050	WU1529-5	06/19/04	2234	18.17	24.37
07	RR-MW-06-050	WG7769-3	06/19/04	2345	18.18	24.38
08	RR-MW-06-050	WG7769-4	06/20/04	0055	18.17	24.37
09	CV	FLPRO 50UG/M	06/20/04	0426	18.17	24.37
10	G01-MW04-050	WU1529-6	06/20/04	0536	18.17	24.37
11	G01-MW05-050	WU1529-7	06/20/04	0646	18.17	24.37
12	G01-MW11-050	WU1529-8	06/20/04	0757	18.17	24.38
13	CV	FLPRO 50UG/M	06/20/04	1127	18.18	24.38
14						
15						
16						
17						
18						
19						
20						

QC LIMITS

S1 = O-Terphenyl (+/- 0.36 MINUTES)
S2 = n-Triacontane-D62 (+/- 0.49 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

Katahdin Analytical Services 3000012

FORM 6
FL-PRO INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC12 Calibration Date(s): 01/15/04 01/15/04

Column: ZB-1 ID: 0.53 (mm) Calibration Time(s): 0329 0809

LAB FILE ID: RF5: CUA2058 RF20: CUA2059 RF50: CUA2060
RF100: CUA2061 RF200: CUA2062

							COEFFICENTS		%RSD	MAX %RSD
COMPOUND	RF5	RF20	RF50	RF100	RF200	CURVE	A0	A1	OR R^2	OR R^2
C-24	28608	115080	291160	567020	1159700	LINR	0.21946184	1.729e-004	0.99986	0.99000
C-8	29571	113520	285540	559500	1120700	LINR	-0.3179999	1.787e-004	0.99998	0.99000
C-10	44616	119260	291320	572080	1153100	LINR	-0.9962156	1.747e-004	0.99981	0.99000
C-12	8727	118790	296890	573940	1155400	LINR	0.67416490	1.722e-004	0.99955	0.99000
C-14	30797	116970	289990	572110	1157900	LINR	-5.64e-002	1.731e-004	0.99996	0.99000
C-16	30385	117240	293420	575020	1165800	LINR	-3.37e-002	1.72e-004	0.99994	0.99000
C-18	29940	116910	292420	573010	1166600	LINR	8.384e-002	1.719e-004	0.99991	0.99000
C-28	29723	116310	294110	572040	1164400	LINR	3.314e-002	1.722e-004	0.99990	0.99000
C-20	29610	116560	293280	571720	1164600	LINR	6.577e-002	1.722e-004	0.99990	0.99000
C-22	29259	116660	293340	572810	1169300	LINR	0.16148628	1.715e-004	0.99989	0.99000
FL-PRO peaks C8-C40	491470	1955200	4966100	9706200	2.e+007	LINR	0.84359268	1.732e-004	0.99994	0.99000
C-26	29407	115890	294330	572720	1167500	LINR	0.11742793	1.717e-004	0.99989	0.99000
C-38	28905	107560	279190	558160	1129200	LINR	0.41790430	1.771e-004	0.99995	0.99000
C-40	23709	102680	285040	550470	1136800	LINR	1.00039501	1.758e-004	0.99970	0.99000
C-30	31378	117890	295870	573650	1161900	LINR	-0.2570571	1.727e-004	0.99992	0.99000
C-32	29450	114070	293980	572950	1156100	LINR	-4.48e-002	1.732e-004	0.99995	0.99000
C-34	29113	115760	300230	585980	1178500	LINR	-2.36e-002	1.698e-004	0.99995	0.99000
C-36	28271	114090	296030	583060	1159300	LINR	-0.1381361	1.723e-004	0.99995	0.99000
O-Terphenyl	6399.80	6360.20	6552.40	6396.50	6295.50	AVRG		6400.87200	1.477	40.000
n-Triacontane-D62	5100.80	5099.40	5229.10	5106.60	5062.00	AVRG		5119.58333	1.245	40.000

FORM VI FL-PRO

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC12 Calibration Date: 06/18/04 Time: 1723

Lab File ID: CUF2100 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 0329 0809

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
C-24	44.919000	50.000000	5171.4000	0.01	-10.16	25.00	LINR
C-8	42.133000	50.000000	4750.3000	0.01	-15.73	25.00	LINR
C-10	40.770000	50.000000	4780.6000	0.01	-18.46	25.00	LINR
C-12	44.423000	50.000000	5080.0000	0.01	-11.15	25.00	LINR
C-14	43.534000	50.000000	5035.0000	0.01	-12.93	25.00	LINR
C-16	44.461000	50.000000	5175.0000	0.01	-11.08	25.00	LINR
C-18	44.789000	50.000000	5202.0000	0.01	-10.42	25.00	LINR
C-28	44.899000	50.000000	5210.9000	0.01	-10.20	25.00	LINR
C-20	45.001000	50.000000	5219.9000	0.01	-10.0	25.00	LINR
C-22	45.146000	50.000000	5247.1000	0.01	-9.71	25.00	LINR
FL-PRO peaks C8-C40	739.74000	850.00000	5021.9000	0.01	-12.97	25.00	LINR
C-26	44.837000	50.000000	5208.8000	0.01	-10.33	25.00	LINR
C-38	40.643000	50.000000	4542.1000	0.01	-18.71	25.00	LINR
C-40	38.346000	50.000000	4248.1000	0.01	-23.31	25.00	LINR
C-30	44.961000	50.000000	5237.5000	0.01	-10.08	25.00	LINR
C-32	44.541000	50.000000	5148.1000	0.01	-10.92	25.00	LINR
C-34	43.912000	50.000000	5175.6000	0.01	-12.18	25.00	LINR
C-36	42.428000	50.000000	4939.8000	0.01	-15.14	25.00	LINR
O-Terphenyl	6400.9000	5901.7000	5901.7000	0.01	-7.80	25.00	AVRG
n-Triacontane-D62	5119.6000	4760.0000	4760.0000	0.01	-7.02	25.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC12 Calibration Date: 06/19/04 Time: 1313

Lab File ID: CUF2117 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 0329 0809

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
C-24	41.932000	50.000000	5225.4000	0.01	-16.14	25.00	LINR	
C-8	38.526000	50.000000	4632.9000	0.01	-22.95	25.00	LINR	
C-10	37.562000	50.000000	4793.8000	0.01	-24.88	25.00	LINR	
C-12	41.562000	50.000000	5157.3000	0.01	-16.88	25.00	LINR	
C-14	40.652000	50.000000	5105.4000	0.01	-18.70	25.00	LINR	
C-16	40.922000	50.000000	5165.5000	0.01	-18.16	25.00	LINR	
C-18	41.912000	50.000000	5261.8000	0.01	-16.18	25.00	LINR	
C-28	42.052000	50.000000	5288.2000	0.01	-15.90	25.00	LINR	
C-20	41.658000	50.000000	5275.1000	0.01	-16.68	25.00	LINR	
C-22	42.155000	50.000000	5301.9000	0.01	-15.69	25.00	LINR	
FL-PRO peaks C8-C40	686.41000	850.00000	5035.9000	0.01	-19.25	25.00	LINR	
C-26	41.978000	50.000000	5282.2000	0.01	-16.04	25.00	LINR	
C-38	37.741000	50.000000	4513.8000	0.01	-24.52	25.00	LINR	
C-40	32.382000	50.000000	3692.1000	0.01	-35.24	25.00	LINR	<-
C-30	42.190000	50.000000	5347.3000	0.01	-15.62	25.00	LINR	
C-32	41.892000	50.000000	5275.9000	0.01	-16.22	25.00	LINR	
C-34	41.282000	50.000000	5281.8000	0.01	-17.44	25.00	LINR	
C-36	40.012000	50.000000	5010.5000	0.01	-19.98	25.00	LINR	
O-Terphenyl	6400.9000	5957.3000	5957.3000	0.01	-6.93	25.00	AVRG	
n-Triacontane-D62	5119.6000	4837.8000	4837.8000	0.01	-5.50	25.00	AVRG	

FORM VII PEST

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC12 Calibration Date: 06/20/04 Time: 0426

Lab File ID: CUF2130 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 0329 0809

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
C-24	45.386000	50.000000	5225.4000	0.01	-9.23	25.00	LINR	
C-8	41.084000	50.000000	4632.9000	0.01	-17.83	25.00	LINR	
C-10	40.885000	50.000000	4793.8000	0.01	-18.23	25.00	LINR	
C-12	45.089000	50.000000	5157.3000	0.01	-9.82	25.00	LINR	
C-14	44.143000	50.000000	5105.4000	0.01	-11.71	25.00	LINR	
C-16	44.380000	50.000000	5165.5000	0.01	-11.24	25.00	LINR	
C-18	45.303000	50.000000	5261.8000	0.01	-9.39	25.00	LINR	
C-28	45.564000	50.000000	5288.2000	0.01	-8.87	25.00	LINR	
C-20	45.477000	50.000000	5275.1000	0.01	-9.05	25.00	LINR	
C-22	45.616000	50.000000	5301.9000	0.01	-8.77	25.00	LINR	
FL-PRO peaks C8-C40	741.65000	850.00000	5035.9000	0.01	-12.75	25.00	LINR	
C-26	45.467000	50.000000	5282.2000	0.01	-9.07	25.00	LINR	
C-38	40.393000	50.000000	4513.8000	0.01	-19.21	25.00	LINR	
C-40	33.458000	50.000000	3692.1000	0.01	-33.08	25.00	LINR	<-
C-30	45.910000	50.000000	5347.3000	0.01	-8.18	25.00	LINR	
C-32	45.648000	50.000000	5275.9000	0.01	-8.70	25.00	LINR	
C-34	44.812000	50.000000	5281.8000	0.01	-10.38	25.00	LINR	
C-36	43.037000	50.000000	5010.5000	0.01	-13.93	25.00	LINR	
O-Terphenyl	6400.9000	5957.3000	5957.3000	0.01	-6.93	25.00	AVRG	
n-Triacontane-D62	5119.6000	4837.8000	4837.8000	0.01	-5.50	25.00	AVRG	

FORM VII PEST

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO301,318 NAS KEY WEST SDG No.: CTO301318-1

Instrument ID: GC12 Calibration Date: 06/20/04 Time: 1127

Lab File ID: CUF2136 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 0329 0809

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
C-24	46.130000	50.000000	5311.4000	0.01	-7.74	25.00	LINR	
C-8	41.908000	50.000000	4725.1000	0.01	-16.18	25.00	LINR	
C-10	41.496000	50.000000	4863.7000	0.01	-17.01	25.00	LINR	
C-12	45.910000	50.000000	5252.6000	0.01	-8.18	25.00	LINR	
C-14	46.282000	50.000000	5352.4000	0.01	-7.44	25.00	LINR	
C-16	45.048000	50.000000	5243.3000	0.01	-9.90	25.00	LINR	
C-18	46.075000	50.000000	5351.6000	0.01	-7.85	25.00	LINR	
C-28	46.334000	50.000000	5377.6000	0.01	-7.33	25.00	LINR	
C-20	46.226000	50.000000	5362.2000	0.01	-7.55	25.00	LINR	
C-22	46.381000	50.000000	5391.2000	0.01	-7.24	25.00	LINR	
FL-PRO peaks C8-C40	754.88000	850.00000	5125.9000	0.01	-11.19	25.00	LINR	
C-26	46.195000	50.000000	5366.9000	0.01	-7.61	25.00	LINR	
C-38	40.996000	50.000000	4581.9000	0.01	-18.01	25.00	LINR	
C-40	33.183000	50.000000	3660.8000	0.01	-33.63	25.00	LINR	<-
C-30	46.642000	50.000000	5432.2000	0.01	-6.72	25.00	LINR	
C-32	46.378000	50.000000	5360.2000	0.01	-7.24	25.00	LINR	
C-34	45.652000	50.000000	5380.6000	0.01	-8.70	25.00	LINR	
C-36	44.041000	50.000000	5127.0000	0.01	-11.92	25.00	LINR	
O-Terphenyl	6400.9000	6024.6000	6024.6000	0.01	-5.88	25.00	AVRG	
n-Triacontane-D62	5119.6000	4918.7000	4918.7000	0.01	-3.92	25.00	AVRG	

FORM VII PEST

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **C. BRYAN** **DATE:** **JULY 14, 2004**

FROM: **ERIN M. FAUST** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – LEAD, NITRATE AND SULFATE**
CTOs – 301 & 318 NAS KEY WEST
SAMPLE DELIVERY GROUP (SDG) – 3181

SAMPLES: 16/Aqueous/

A824-MW-01-0504	A824-MW-02-0504	A824-MW-03-0504
G01-MW-02-0504	G01-MW-03-0504	G01-MW-04-0504
G01-MW-05-0504	G01-MW-10-0504	G01-MW-11-0504
G01-MW-12-0504	KW-DUP-03-0504	RR-MW-06-0504
FC-MW-05-0504	FC-MW-06-0504	FC-MW-22-0504
KW-DUP-01-0504		

Overview

The sample set for CTOs 301 & 318, NAS Key West, SDG 3181, consists of sixteen (16) aqueous environmental samples. Two (2) field duplicate pairs (KW-DUP-03-0504 / A824-MW-01-0504 and KW-DUP-01-0504 / FC-MW-22-0504) are included within this SDG.

All samples were analyzed for lead, nitrate and sulfate, with the exception of samples , which were analyzed for lead only. The samples were collected by TetraTech NUS on May 20, 21, 22 and 24, 2004 and analyzed by Katahdin Analytical Services under Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria. Lead analyses were conducted using SW-846 method 6010B. Analyses for nitrate and sulfate were conducted using EPA methods 353.2 and 375.4, respectively.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
* • Laboratory Blank Analyses
• Field Duplicate Results
• Detection Limits

* - All quality control criteria were met for this parameter.

Field Duplicate Results

Field duplicate imprecision (RPD > 30%) was noted for sulfate. Positive results reported for sulfate were qualified as estimated, "J".

Detection Limits

Several results reported for nitrate were qualified by the laboratory as estimated, "J", because the reported result is greater than the laboratory method detection limit (MDL) but less than the reporting limit (RL). This qualifier was retained during data validation.

Notes

The matrix spike percent recovery for sulfate was 0%. No validation action was required because the native concentration of sulfate in the unspiked sample was greater than four times the concentration of sulfate added in the matrix spiking solution.

Executive Summary

Laboratory Performance: No laboratory performance issues affected data quality.

Other Factors Affecting Data Quality: Field duplicate imprecision was noted for sulfate. Several results for nitrate were qualified due to uncertainty near the detection limit.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", July 2002 and the NFESC document entitled "Navy IRCDQM" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Erin M. Faust
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: M

nsample	A824-MW-01-0504
samp_date	5/21/2004
lab_id	WU1519-002
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1.7	U	

nsample	A824-MW-02-0504
samp_date	5/21/2004
lab_id	WU1519-003
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1.7	U	

nsample	A824-MW-03-0504
samp_date	5/21/2004
lab_id	WU1519-004
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1.7	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: M

nsample	G01-MW-02-0504	nsample	G01-MW-03-0504	nsample	G01-MW-04-0504
samp_date	5/24/2004	samp_date	5/20/2004	samp_date	5/24/2004
lab_id	WU1529-005	lab_id	WU1503-003	lab_id	WU1529-006
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1.7	U	

Parameter	Result	Val Qual	Qual Code
LEAD	1.7	U	

Parameter	Result	Val Qual	Qual Code
LEAD	1.7	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: M

nsample	G01-MW-05-0504	nsample	G01-MW-10-0504	nsample	G01-MW-11-0504
samp_date	5/24/2004	samp_date	5/20/2004	samp_date	5/24/2004
lab_id	WU1529-007	lab_id	WU1503-004	lab_id	WU1529-008
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1.7	U	

Parameter	Result	Val Qual	Qual Code
LEAD	1.7	U	

Parameter	Result	Val Qual	Qual Code
LEAD	1.7	U	

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: M

nsample	G01-MW-12-0504	nsample	KW-DUP-03-0504	nsample	RR-MW-06-0504
samp_date	5/20/2004	samp_date	5/21/2004	samp_date	5/21/2004
lab_id	WU1503-005	lab_id	WU1519-005	lab_id	WU1519-001
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	A824-MW-01-0504	DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1.7	U	

Parameter	Result	Val Qual	Qual Code
LEAD	1.7	U	

Parameter	Result	Val Qual	Qual Code
LEAD	1.7	U	

PROJ_NO: 5658

SDG: 3181 MEDIA: WATER DATA FRACTION: M

nsample	FC-MW-05-0504	nsample	FC-MW-06-0504	nsample	FC-MW-22-0504
samp_date	5/22/2004	samp_date	5/22/2004	samp_date	5/22/2004
lab_id	WU1529-001	lab_id	WU1529-002	lab_id	WU1529-003
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1.7	U	

Parameter	Result	Val Qual	Qual Code
LEAD	2.0		

Parameter	Result	Val Qual	Qual Code
LEAD	43.1		

PROJ_NO: 5658

SDG: 3181 MEDIA: WATER DATA FRACTION: M

nsample	KW-DUP-01-0504
samp_date	5/22/2004
lab_id	WU1529-004
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	FC-MW-22-0504

Parameter	Result	Val Qual	Qual Code
LEAD	42.9		

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: MISC

nsample	A824-MW-01-0504
samp_date	5/21/2004
lab_id	WU1519-2
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.05	U	
SULFATE	MG/L	28	J	G

nsample	A824-MW-02-0504
samp_date	5/21/2004
lab_id	WU1519-3
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.05	U	
SULFATE	MG/L	390	J	G

nsample	A824-MW-03-0504
samp_date	5/21/2004
lab_id	WU1519-4
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.05	U	
SULFATE	MG/L	110	J	G

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: MISC

nsample	G01-MW-02-0504	nsample	G01-MW-03-0504	nsample	G01-MW-04-0504
samp_date	5/24/2004	samp_date	5/20/2004	samp_date	5/24/2004
lab_id	WU1529-5	lab_id	WU1503-3	lab_id	WU1529-6
qc_type	NM	qc_type	NM	qc_type	NM
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.034	J	P
SULFATE	MG/L	1200	J	G

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.22		
SULFATE	MG/L	3.4	J	G

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.25	U	
SULFATE	MG/L	1300	J	G

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: MISC

nsample	G01-MW-05-0504	nsample	G01-MW-10-0504	nsample	G01-MW-11-0504
samp_date	5/24/2004	samp_date	5/20/2004	samp_date	5/24/2004
lab_id	WU1529-7	lab_id	WU1503-4	lab_id	WU1529-8
qc_type	NM	qc_type	NM	qc_type	NM
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.019	J	P
SULFATE	MG/L	460	J	G

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.005	J	P
SULFATE	MG/L	24	J	G

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.05	U	
SULFATE	MG/L	140	J	G

PROJ_NO: 4779

SDG: 3181 MEDIA: WATER DATA FRACTION: MISC

nsample	G01-MW-12-0504	nsample	KW-DUP-03-0504	nsample	RR-MW-06-0504
samp_date	5/20/2004	samp_date	5/21/2004	samp_date	5/21/2004
lab_id	WU1503-5	lab_id	WU1519-5	lab_id	WU1519-1
qc_type	NM	qc_type	NM	qc_type	NM
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	A824-MW-01-0504	DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.0094	J	P
SULFATE	MG/L	460	J	G

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.05	U	
SULFATE	MG/L	46	J	G

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.014	J	P
SULFATE	MG/L	230	J	G

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** A824-MW-01-0504

Matrix: WATER **SDG Name:** CTO301318-1

Percent Solids: 0.00 **Lab Sample ID:** WU1519-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1.70	U		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** A824-MW-02-0504

Matrix: WATER **SDG Name:** CTO301318-1

Percent Solids: 0.00 **Lab Sample ID:** WU1519-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1.70	U		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** A824-MW-03-0504

Matrix: WATER **SDG Name:** CTO301318-1

Percent Solids: 0.00 **Lab Sample ID:** WU1519-004

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1.70	U		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW02-0504

Matrix: WATER **SDG Name:** CTO301318-1

Percent Solids: 0.00 **Lab Sample ID:** WU1529-005

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1.70	U		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-03-0504

Matrix: WATER **SDG Name:** CTO301318-1

Percent Solids: 0.00 **Lab Sample ID:** WU1503-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1.70	U		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

I

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW04-0504

Matrix: WATER **SDG Name:** CTO301318-1

Percent Solids: 0.00 **Lab Sample ID:** WU1529-006

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1.70	U		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW05-0504

Matrix: WATER **SDG Name:** CTO301318-1

Percent Solids: 0.00 **Lab Sample ID:** WU1529-007

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1.70	U		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-10-0504

Matrix: WATER **SDG Name:** CTO301318-1

Percent Solids: 0.00 **Lab Sample ID:** WU1503-004

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1.70	U		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW11-0504

Matrix: WATER **SDG Name:** CTO301318-1

Percent Solids: 0.00 **Lab Sample ID:** WU1529-008

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1.70	U		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-12-0504

Matrix: WATER **SDG Name:** CTO301318-1

Percent Solids: 0.00 **Lab Sample ID:** WU1503-005

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1.70	U		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** KW-DUP-03-0504

Matrix: WATER **SDG Name:** CTO301318-1

Percent Solids: 0.00 **Lab Sample ID:** WU1519-005

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1.70	U		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** RR-MW-06-0504

Matrix: WATER **SDG Name:** CTO301318-1

Percent Solids: 0.00 **Lab Sample ID:** WU1519-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1.70	U		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** FC-MW-05-0504

Matrix: WATER **SDG Name:** CTO301318-1

Percent Solids: 0.00 **Lab Sample ID:** WU1529-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1.70	U		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** FC-MW-06-0504

Matrix: WATER **SDG Name:** CTO301318-1

Percent Solids: 0.00 **Lab Sample ID:** WU1529-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	2.0	B		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** FC-MW-22-0504

Matrix: WATER **SDG Name:** CTO301318-1

Percent Solids: 0.00 **Lab Sample ID:** WU1529-003

Concentration Units: ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	43.1			P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** KW-DUP-01-0504

Matrix: WATER **SDG Name:** CTO301318-1

Percent Solids: 0.00 **Lab Sample ID:** WU1529-004

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	42.9			P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU1519-2
Report Date: 21-JUN-04
Client PO: MSA-0402-N4113-05 N4779-
Project: CTO301,318 NAS KEY WEST
SDG: CTO301/318-1

Sample Description	Matrix	Date Sampled	Date Received
A824-MW-01-0504	AQ	21-MAY-04	22-MAY-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG7736	22-MAY-04	KGT	N/A	N/A	N/A	
Sulfate-Turbidimetric	28. mg/L	1	EPA 375.4	WG7981	03-JUN-04	KGT	N/A	N/A	N/A	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU1519-3
Report Date: 21-JUN-04
Client PO: MSA-0402-N4113-05 N4779-
Project: CTO301,318 NAS KEY WEST
SDG: CTO301/318-1

Sample Description	Matrix	Date Sampled	Date Received
A824-MW-02-0504	AQ	21-MAY-04	22-MAY-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG7736	22-MAY-04	KGT	N/A	N/A	N/A	
Sulfate-Turbidimetric	390 mg/L	20	EPA 375.4	WG7981	03-JUN-04	KGT	N/A	N/A	N/A	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU1519-4
Report Date: 21-JUN-04
Client PO: MSA-0402-N4113-05 N4779-
Project: CTO301,318 NAS KEY WEST
SDG: CTO301/318-1

Sample Description	Matrix	Date Sampled	Date Received
A824-MW-03-0504	AQ	21-MAY-04	22-MAY-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG7736	22-MAY-04	KGT	N/A	N/A	N/A	
Sulfate-Turbidimetric	110 mg/L	5	EPA 375.4	WG7981	03-JUN-04	KGT	N/A	N/A	N/A	

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU1529-5
Report Date: 21-JUN-04
Client PO: MSA-0402-N4113-05 N4779-
Project: CTO301,318 NAS KEY WEST
SDG: CTO301/318-1

Sample Description	Matrix	Date Sampled	Date Received
G01-MW02-0504	AQ	24-MAY-04	25-MAY-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	J0.034 mg/L	.05	EPA 353.2	WG7789	26-MAY-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	1200 mg/L	50	EPA 375.4	WG8204	17-JUN-04	KGT	N/A	N/A	N/A	

Katahdin
ANALYTICAL SERVICES

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Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU1503-3
Report Date: 21-JUN-04
Client PO: MSA-0402-N4113-05 N4779-
Project: CTO 301,318 NAS KEY WEST
SDG: CTO301/318-1

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-03-0504	AQ	20-MAY-04	21-MAY-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	0.22 mg/L	.05	EPA 353.2	WG7713	21-MAY-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	3.4 mg/L	1	EPA 375.4	WG7981	03-JUN-04	KGT	N/A	N/A	N/A	

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU1529-6
Report Date: 21-JUN-04
Client PO: MSA-0402-N4113-05 N4779-
Project: CTO301,318 NAS KEY WEST
SDG: CTO301/318-1

Sample Description	Matrix	Date Sampled	Date Received
G01-MW04-0504	AQ	24-MAY-04	25-MAY-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	U0.25 mg/L	.25	EPA 353.2	WG7789	26-MAY-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	1300 mg/L	50	EPA 375.4	WG8204	17-JUN-04	KGT	N/A	N/A	N/A	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU1529-7
Report Date: 21-JUN-04
Client PO: MSA-0402-N4113-05 N4779-
Project: CTO301,318 NAS KEY WEST
SDG: CTO301/318-1

Sample Description	Matrix	Date Sampled	Date Received
G01-MW05-0504	AQ	24-MAY-04	25-MAY-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	J0.019 mg/L	.05	EPA 353.2	WG7789	26-MAY-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	460 mg/L	20	EPA 375.4	WG8204	17-JUN-04	KGT	N/A	N/A	N/A	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU1503-4
Report Date: 21-JUN-04
Client PO: MSA-0402-N4113-05 N4779-
Project: CTO 301,318 NAS KEY WEST
SDG: CTO301/318-1

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-10-0504	AQ	20-MAY-04	21-MAY-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	J0.0050 mg/L	.05	EPA 353.2	WG7713	21-MAY-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	24. mg/L	1	EPA 375.4	WG7981	03-JUN-04	KGT	N/A	N/A	N/A	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU1529-8
Report Date: 21-JUN-04
Client PO: MSA-0402-N4113-05 N4779-
Project: CTO301,318 NAS KEY WEST
SDG: CTO301/318-1

Sample Description	Matrix	Date Sampled	Date Received
G01-MW11-0504	AQ	24-MAY-04	25-MAY-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG7789	26-MAY-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	140 mg/L	10	EPA 375.4	WG8204	17-JUN-04	KGT	N/A	N/A	N/A	

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU1503-5
Report Date: 21-JUN-04
Client PO: MSA-0402-N4113-05 N4779-
Project: CTO 301,318 NAS KEY WEST
SDG: CTO301/318-1

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-12-0504	AQ	20-MAY-04	21-MAY-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	J0.0094 mg/L	.05	EPA 353.2	WG7713	21-MAY-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	460 mg/L	20	EPA 375.4	WG8051	07-JUN-04	KGT	N/A	N/A	N/A	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU1519-5
Report Date: 21-JUN-04
Client PO: MSA-0402-N4113-05 N4779-
Project: CTO301,318 NAS KEY WEST
SDG: CTO301/318-1

Sample Description	Matrix	Date Sampled	Date Received
KW-DUP-03-0504	AQ	21-MAY-04	22-MAY-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG7736	22-MAY-04	KGT	N/A	N/A	N/A	
Sulfate-Turbidimetric	46. mg/L	2	EPA 375.4	WG7981	03-JUN-04	KGT	N/A	N/A	N/A	

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU1519-1
Report Date: 21-JUN-04
Client PO: MSA-0402-N4113-05 N4779-
Project: CTO301,318 NAS KEY WEST
SDG: CTO301/318-1

Sample Description	Matrix	Date Sampled	Date Received
RR-MW-06-0504	AQ	21-MAY-04	22-MAY-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	J0.014 mg/L	.05	EPA 353.2	WG7736	22-MAY-04	KGT	N/A	N/A	N/A	
Sulfate-Turbidimetric	230 mg/L	10	EPA 375.4	WG7981	03-JUN-04	KGT	N/A	N/A	N/A	

APPENDIX C
SUPPORT DOCUMENTATION

WW1503

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 3833 | **PAGE** 1 **OF** 1

PROJECT NO:	**FACILITY:** NAS KEY WEST	**PROJECT MANAGER** EMILY McREE	**PHONE NUMBER** (803)649-7963	**LABORATORY NAME AND CONTACT:** KATHADIN - ANDREA COLBY
SAMPLERS (SIGNATURE) Gary Bragan		**FIELD OPERATIONS LEADER** GARY BRAGANZA	**PHONE NUMBER** (561)302-4437	**ADDRESS** 340 COUNTY ROAD NO.5
		CARRIER/WAYBILL NUMBER FED EX / 8425 8908 8781		**CITY, STATE** WESTBROOK, ME

STANDARD TAT ☑
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2004	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: PAHs	PPL VOH's, BTEX, MTBE	TRPH	EDB	NITRATE + SULFATE	METHANE	LEAD	COMMENTS
5/20	9:20	B01-MW-01-0504	MW-01			GW	G	2			X							
	9:30	B01-MW-03-0504	MW-03	~~9190~~				2			X							
	13:45	G01-MW-03-0504	G01-MW03					13			X	X	X	X	X	X	X	
	15:25	G01-MW-10-0504	G01-MW10					13			X	X	X	X	X	X	X	
	14:40	G01-MW-12-0504	G01-MW12					13			X	X	X	X	X	X	X	

1. RELINQUISHED BY Gary Bragan	DATE 5/20/04	TIME 17:30	1. RECEIVED BY	DATE 5/21/04	TIME 0915
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

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FORM NO. TtNUS-001

910003

WW1514

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 3834 | **PAGE** 1 **OF** 1

PROJECT NO: N4779	**FACILITY:** NAS KEY WEST	**PROJECT MANAGER** EMILY McREE	**PHONE NUMBER** (803) 649-7963	**LABORATORY NAME AND CONTACT:** KATHADIN - ANDREA COLBY
SAMPLERS (SIGNATURE) Gary Braganza		**FIELD OPERATIONS LEADER** GARY BRAGANZA	**PHONE NUMBER** (561) 302-4137	**ADDRESS** 340 COUNTY ROAD No. 5
		CARRIER/WAYBILL NUMBER FEDEX / 8425 8908 8792		**CITY, STATE** WESTBROOK, ME

STANDARD TAT ☑
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2004)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: PPL VOA's, BTEX, MTBE	PAH's	TRPH	EDB	LEAD	NITRATE + SULFATE	METHANE	COMMENTS
5/21	10:35	RR-MW-06-0504	RR-MW-06			GW	G	39			X	X	X	X	X	X	X	MS/MSD
	10:50	A824-MW-01-0504	A824-MW-01					13			X	X	X	X	X	X	X	
	13:20	A824-MW-02-0504	A824-MW-02					13			X	X	X	X	X	X	X	
	13:05	A824-MW-03-0504	A824-MW-03					13			X	X	X	X	X	X	X	
		KW-DUP-03-0504						13			X	X	X	X	X	X	X	
		KWTB-052104						2										TRIP BLANK

1. RELINQUISHED BY Gary Braganza	DATE 5/21/04	TIME	1. RECEIVED BY Fed Ex	DATE	TIME
2. RELINQUISHED BY Fed Ex	DATE	TIME	2. RECEIVED BY G. Brewer	DATE 05/22/04	TIME 10:20
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

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WW1529

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 3706 | **PAGE** 1 **OF** 1

PROJECT NO: N4779	**FACILITY:** NAS KEY WEST	**PROJECT MANAGER** EMILY McKEE	**PHONE NUMBER** (803) 649-7963	**LABORATORY NAME AND CONTACT:** KATHADIN - ANDREA COLBY
SAMPLERS (SIGNATURE) Gary Braganza		**FIELD OPERATIONS LEADER** GARY BRAGANZA	**PHONE NUMBER** (561) 302-4137	**ADDRESS** 340 COUNTY ROAD No. 5
		CARRIER/WAYBILL NUMBER FEDEX / 8425 8908 8807		**CITY, STATE** WESTBROOK, ME

STANDARD TAT ☑
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2004)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: PPL VOH's + MTBE	PAHs	TRPH	EDB	LEAD	NITRATE + SULFATE	METHANE	COMMENTS
									G									
5/22	10:15	FC-MW-05-0504	FC-MW-05			GW	G	10			X	X	X	X	X			
↓	12:15	FC-MW-06-0504	FC-MW-06			↓	↓	10			X	X	X	X	X			
	10:30	FC-MW-22-0504	FC-MW-22					10			X	X	X	X	X			
↓		KW-DUP-01-0504						10			X	X	X	X	X			
5/24	14:00	G01-MW02-0504	G01-MW-02					13			X	X	X	X	X	X	X	
↓	09:40	G01-MW04-0504	G01-MW-04					13			X	X	X	X	X	X	X	
	13:35	G01-MW05-0504	G01-MW-05					13			X	X	X	X	X	X	X	
↓	9:15	G01-MW11-0504	G01-MW-11			↓	↓	13			X	X	X	X	X	X	X	
		KWTB-052404						2										

1. RELINQUISHED BY Gary Braganza	DATE 5/24/04	TIME	1. RECEIVED BY	DATE 5/25/04	TIME 0910
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

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HOLDTIME

SDG CTO301/318-1

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	G01-MW05-0504	WU1529-007	NM	05/24/2004	06/11/2004	06/15/2004	18	4	22
M	UG/L	A824-MW-01-0504	WU1519-002	NM	05/21/2004	06/11/2004	06/15/2004	21	4	25
M	UG/L	RR-MW-06-0504	WU1519-001	NM	05/21/2004	06/11/2004	06/15/2004	21	4	25
M	UG/L	KW-DUP-03-0504	WU1519-005	NM	05/21/2004	06/11/2004	06/15/2004	21	4	25
M	UG/L	KW-DUP-01-0504	WU1529-004	NM	05/22/2004	06/11/2004	06/15/2004	20	4	24
M	UG/L	G01-MW-12-0504	WU1503-005	NM	05/20/2004	06/11/2004	06/15/2004	22	4	26
M	UG/L	G01-MW-10-0504	WU1503-004	NM	05/20/2004	06/11/2004	06/15/2004	22	4	26
M	UG/L	G01-MW04-0504	WU1529-006	NM	05/24/2004	06/11/2004	06/15/2004	18	4	22
M	UG/L	G01-MW-03-0504	WU1503-003	NM	05/20/2004	06/11/2004	06/15/2004	22	4	26
M	UG/L	G01-MW02-0504	WU1529-005	NM	05/24/2004	06/11/2004	06/15/2004	18	4	22
M	UG/L	FC-MW-22-0504	WU1529-003	NM	05/22/2004	06/11/2004	06/15/2004	20	4	24
M	UG/L	FC-MW-06-0504	WU1529-002	NM	05/22/2004	06/11/2004	06/15/2004	20	4	24
M	UG/L	FC-MW-05-0504	WU1529-001	NM	05/22/2004	06/11/2004	06/15/2004	20	4	24
M	UG/L	A824-MW-03-0504	WU1519-004	NM	05/21/2004	06/11/2004	06/15/2004	21	4	25
M	UG/L	A824-MW-02-0504	WU1519-003	NM	05/21/2004	06/11/2004	06/15/2004	21	4	25

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	G01-MW11-0504	WU1529-008	NM	05/24/2004	06/11/2004	06/15/2004	18	4	22
NTA	MG/L	G01-MW-12-0504	WU1503-5	NM	05/20/2004	05/21/2004	05/21/2004	1	0	1
NTA	MG/L	G01-MW05-0504	WU1529-7	NM	05/24/2004	05/26/2004	05/26/2004	2	0	2
NTA	MG/L	KW-DUP-03-0504	WU1519-5	NM	05/21/2004	05/22/2004	05/22/2004	1	0	1
NTA	MG/L	G01-MW11-0504	WU1529-8	NM	05/24/2004	05/26/2004	05/26/2004	2	0	2
NTA	MG/L	G01-MW-10-0504	WU1503-4	NM	05/20/2004	05/21/2004	05/21/2004	1	0	1
NTA	MG/L	G01-MW-03-0504	WU1503-3	NM	05/20/2004	05/21/2004	05/21/2004	1	0	1
NTA	MG/L	G01-MW02-0504	WU1529-5	NM	05/24/2004	05/26/2004	05/26/2004	2	0	2
NTA	MG/L	A824-MW-03-0504	WU1519-4	NM	05/21/2004	05/22/2004	05/22/2004	1	0	1
NTA	MG/L	A824-MW-02-0504	WU1519-3	NM	05/21/2004	05/22/2004	05/22/2004	1	0	1
NTA	MG/L	A824-MW-01-0504	WU1519-2	NM	05/21/2004	05/22/2004	05/22/2004	1	0	1
NTA	MG/L	RR-MW-06-0504	WU1519-1	NM	05/21/2004	05/22/2004	05/22/2004	1	0	1
NTA	MG/L	G01-MW04-0504	WU1529-6	NM	05/24/2004	05/26/2004	05/26/2004	2	0	2
SO4	MG/L	G01-MW11-0504	WU1529-8	NM	05/24/2004	06/17/2004	06/17/2004	24	0	24
SO4	MG/L	A824-MW-01-0504	WU1519-2	NM	05/21/2004	06/03/2004	06/03/2004	13	0	13
SO4	MG/L	A824-MW-02-0504	WU1519-3	NM	05/21/2004	06/03/2004	06/03/2004	13	0	13
SO4	MG/L	A824-MW-03-0504	WU1519-4	NM	05/21/2004	06/03/2004	06/03/2004	13	0	13
SO4	MG/L	G01-MW02-0504	WU1529-5	NM	05/24/2004	06/17/2004	06/17/2004	24	0	24

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SO4	MG/L	G01-MW-03-0504	WU1503-3	NM	05/20/2004	06/03/2004	06/03/2004	14	0	14
SO4	MG/L	G01-MW04-0504	WU1529-6	NM	05/24/2004	06/17/2004	06/17/2004	24	0	24
SO4	MG/L	G01-MW-10-0504	WU1503-4	NM	05/20/2004	06/03/2004	06/03/2004	14	0	14
SO4	MG/L	KW-DUP-03-0504	WU1519-5	NM	05/21/2004	06/03/2004	06/03/2004	13	0	13
SO4	MG/L	RR-MW-06-0504	WU1519-1	NM	05/21/2004	06/03/2004	06/03/2004	13	0	13
SO4	MG/L	G01-MW-12-0504	WU1503-5	NM	05/20/2004	06/07/2004	06/07/2004	18	0	18
SO4	MG/L	G01-MW05-0504	WU1529-7	NM	05/24/2004	06/17/2004	06/17/2004	24	0	24
OS	%	G01-MW-03-0504	WU1503-3	NM	05/20/2004	05/24/2004	06/16/2004	4	23	27
OS	%	G01-MW-10-0504	WU1503-4	NM	05/20/2004	05/24/2004	06/16/2004	4	23	27
OS	%	G01-MW-10-0504DL2	WU1503-4DL2	NM	05/20/2004	05/24/2004	06/18/2004	4	25	29
OS	%	G01-MW11-0504	WU1529-8	NM	05/24/2004	05/26/2004	06/16/2004	2	21	23
OS	%	G01-MW11-0504DL2	WU1529-8DL2	NM	05/24/2004	05/26/2004	06/18/2004	2	23	25
OS	%	G01-MW-12-0504	WU1503-5	NM	05/20/2004	05/24/2004	06/16/2004	4	23	27
OS	%	KW-DUP-01-0504	WU1529-4	NM	05/22/2004	05/26/2004	06/16/2004	4	21	25
OS	%	G01-MW05-0504DL2	WU1529-7DL2	NM	05/24/2004	05/26/2004	06/18/2004	2	23	25
OS	%	RR-MW-06-0504RA	WU1519-1RA	NM	05/21/2004	05/25/2004	06/16/2004	4	22	26
OS	%	KW-DUP-03-0504	WU1519-5	NM	05/21/2004	05/25/2004	06/16/2004	4	22	26
OS	%	KW-DUP-01-0504DL2	WU1529-4DL2	NM	05/22/2004	05/26/2004	06/18/2004	4	23	27

Katahdin
ANALYTICAL SERVICES

Cert. No. E87604

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NAS KEY WEST; SDG: CTO301/318-1
WU1503, WU1519, WU1529
TASK ORDER MANAGER: EMILY MCREE

Sample Receipt

The following samples were received on May 21, 22 and 25, 2004 and were logged in under Katahdin Analytical Services work order numbers WU1503, WU1519 and WU1529 for a hardcopy due date of June 18, 2004.

KATAHDIN Sample No.	TTNUS Sample Identification
WU1503-1	B01-MW-01-0504
WU1503-2	B01-MW-03-0504
WU1503-3	G01-MW-03-0504
WU1503-4	G01-MW-10-0504
WU1503-5	G01-MW-12-0504
WU1519-1	RR-MW-06-0504
WU1519-2	A824-MW-01-0504
WU1519-3	A824-MW-02-0504
WU1519-4	A824-MW-03-0504
WU1519-5	KW-DUP-03-0504
WU1519-6	KWTB-052104
WU1529-1	FC-MW-05-0504
WU1529-2	FC-MW-06-0504
WU1529-3	FC-MW-22-0504
WU1529-4	KW-DUP-01-0504
WU1529-5	G01-MW02-0504
WU1529-6	G01-MW04-0504
WU1529-7	G01-MW05-0504
WU1529-8	G01-MW11-0504
WU1529-9	KWTB-052404

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Metals Analysis

The samples of Katahdin SDG CTO301/318-1 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Aqueous Waste", SW-846, November 1986, Third Edition.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix Katahdin Sample Nos. WU1503-(3-5), WU1519-(1-5), and WU1529-(1-8) were digested for ICP analysis on 06/11/04 (QC Batch UF11ICW1) in accordance with USEPA Method 3010A. Katahdin Sample No. WU1519-1 was prepared with duplicate matrix-spiked aliquots.

ICP analyses of SDG CTO301/318-1 sample digestates were performed using a Thermo Jarrell Ash (TJA) Trace ICP spectrometer. All samples were analyzed within holding times and all analytical run QC criteria were met, with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question with the following exception:

Matrix QC Summary

One or both of the matrix-spiked aliquots of Katahdin Sample No. WU1519-1 was within the laboratory's acceptance criteria (75% - 125% recovery of the added element, if the native concentration is less than four times the amount added) for lead.

The matrix spike duplicate analysis of Katahdin Sample No. WU1519-1 was within the laboratory's acceptance limit (<20% relative difference between duplicate matrix spiked aliquots) for lead.

The serial dilution analyses of Katahdin Sample No. WU1519-1 was within the laboratory's ICP serial dilution acceptance limit (<10% difference between the original sample result and the result for a 5-fold dilution of the sample, if the result for the dilution is at least ten times the instrument detection limit) for lead.

Wet Chemistry Analysis

The samples of SDG CTO301/318-1 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for nitrate and sulfate were performed according "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, 1979 Revised 1983, U.S. EPA.

All Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limits (MDL). Measured concentrations that fall between the MDL and Katahdin's Practical Quantitation Limit (PQL) are flagged "J". Measured concentrations that are below the MDL are flagged "U" and reported as "U PQL", where "PQL" is the numerical value of the Practical Quantitation Limit.

All analyses were performed within analytical hold time. All quality control criteria were met with the following exceptions:

For Katahdin Sample Numbers WU1503-5 and WU1519-1, the matrix spike recovery (0%) for sulfate is outside the laboratory's acceptance criteria. In each of these cases, the sample concentration is more than ten times the amount of spike added.

No other deviations were noted by the Wet Chemistry group.

Subcontracted Analysis

Analyses for Methane/Ethane/Ethene were performed by a subcontract laboratory. Please refer to the section of the data package titled Subcontracted Data.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Deborah J. Nadeau 6.25.04

Deborah Nadeau
Operations Manager

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Katahdin Analytical Services

SDG Name: CTO301/318-1 **SOW No.** SW846

Client Field ID	Lab Sample ID
A824-MW-01-0504	WU1519-002
A824-MW-02-0504	WU1519-003
A824-MW-03-0504	WU1519-004
FC-MW-05-0504	WU1529-001
FC-MW-06-0504	WU1529-002
FC-MW-22-0504	WU1529-003
G01-MW-03-0504	WU1503-003
G01-MW-10-0504	WU1503-004
G01-MW-12-0504	WU1503-005
G01-MW02-0504	WU1529-005
G01-MW04-0504	WU1529-006
G01-MW05-0504	WU1529-007
G01-MW11-0504	WU1529-008
KW-DUP-01-0504	WU1529-004
KW-DUP-03-0504	WU1519-005
RR-MW-06-0504	WU1519-001
RR-MW-06-0504	WU1519-001P
RR-MW-06-0504	WU1519-001S

Were ICP interelement corrections applied ?	Yes
Were ICP background corrections applied ?	Yes
If yes - were raw data generated before application of background corrections ?	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Molly Fabbricante Name: Molly Fabbricante

Date: 10-Nov-04 Title: Chemist

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** CTO301318-1

Concentration Units: ug/L

SAMPLE: ICV

File: AUF15B Jun 15, 2004 10:41

Analyte	True	Found	%R (1)
ALUMINUM	20000.0	18810.68	94.1
CALCIUM	20000.0	20220.37	101.1
IRON	20000.0	19790.57	99.0
LEAD	550.0	524.17	95.3
MAGNESIUM	20000.0	21458.76	107.3

SAMPLE: CCV

File: AUF15B Jun 15, 2004 11:21

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48672.85	97.3
CALCIUM	50000.0	50156.66	100.3
IRON	20000.0	19733.90	98.7
LEAD	1000.0	974.69	97.5
MAGNESIUM	50000.0	50312.59	100.6

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** CTO301318-1

Concentration Units: ug/L

SAMPLE: CCV

File: AUF15B Jun 15, 2004 12:42

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48121.77	96.2
CALCIUM	50000.0	50715.56	101.4
IRON	20000.0	19933.94	99.7
LEAD	1000.0	1011.51	101.2
MAGNESIUM	50000.0	50560.96	101.1

SAMPLE: CCV

File: AUF15B Jun 15, 2004 14:03

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48753.47	97.5
CALCIUM	50000.0	50891.66	101.8
IRON	20000.0	19973.92	99.9
LEAD	1000.0	999.32	99.9
MAGNESIUM	50000.0	50992.88	102.0

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** CTO301318-1

Concentration Units: ug/L

SAMPLE: CCV

File: AUF15B Jun 15, 2004 15:23

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48256.58	96.5
CALCIUM	50000.0	51430.64	102.9
IRON	20000.0	20246.37	101.2
LEAD	1000.0	1030.03	103.0
MAGNESIUM	50000.0	51191.78	102.4

SAMPLE: CCV

File: AUF15B Jun 15, 2004 16:44

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48370.27	96.7
CALCIUM	50000.0	51387.57	102.8
IRON	20000.0	20132.32	100.7
LEAD	1000.0	1018.08	101.8
MAGNESIUM	50000.0	51108.97	102.2

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** CTO301318-1

Concentration Units: ug/L

SAMPLE: CCV

File: AUF15B Jun 15, 2004 18:04

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48121.13	96.2
CALCIUM	50000.0	51148.10	102.3
IRON	20000.0	19854.29	99.3
LEAD	1000.0	999.40	99.9
MAGNESIUM	50000.0	50652.19	101.3

SAMPLE: CCV

File: AUF15B Jun 15, 2004 19:25

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	47466.20	94.9
CALCIUM	50000.0	50924.40	101.8
IRON	20000.0	19747.13	98.7
LEAD	1000.0	1010.65	101.1
MAGNESIUM	50000.0	50215.40	100.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO301318-1

Concentration Units: ug/L

SAMPLE: ICB

File: AUF15B Jun 15, 2004 10:48

Analyte	Result	C
ALUMINUM	25.97	B
CALCIUM	-3.73	B
IRON	10.70	U
LEAD	1.70	U
MAGNESIUM	7.52	U

SAMPLE: CCB

File: AUF15B Jun 15, 2004 11:28

Analyte	Result	C
ALUMINUM	-77.45	B
CALCIUM	10.79	B
IRON	10.70	U
LEAD	1.70	U
MAGNESIUM	-10.17	B

SAMPLE: CCB

File: AUF15B Jun 15, 2004 12:49

Analyte	Result	C
ALUMINUM	34.06	B
CALCIUM	3.13	U
IRON	10.70	U
LEAD	1.70	U
MAGNESIUM	7.52	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO301318-1

Concentration Units: ug/L

SAMPLE: CCB

File: AUF15B Jun 15, 2004 14:09

Analyte	Result	C
ALUMINUM	98.42	B
CALCIUM	-8.23	B
IRON	10.70	U
LEAD	1.70	U
MAGNESIUM	7.52	U

SAMPLE: CCB

File: AUF15B Jun 15, 2004 15:30

Analyte	Result	C
ALUMINUM	88.53	B
CALCIUM	-10.51	B
IRON	11.09	B
LEAD	1.70	U
MAGNESIUM	7.52	U

SAMPLE: CCB

File: AUF15B Jun 15, 2004 16:50

Analyte	Result	C
ALUMINUM	50.83	B
CALCIUM	-3.81	B
IRON	10.70	U
LEAD	1.70	U
MAGNESIUM	7.52	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO301318-1

Concentration Units: ug/L

SAMPLE: CCB

File: AUF15B Jun 15, 2004 18:11

Analyte	Result	C
ALUMINUM	45.56	B
CALCIUM	3.13	U
IRON	10.70	U
LEAD	1.70	U
MAGNESIUM	7.52	U

SAMPLE: CCB

File: AUF15B Jun 15, 2004 19:31

Analyte	Result	C
ALUMINUM	70.05	B
CALCIUM	-4.74	B
IRON	10.70	U
LEAD	1.70	U
MAGNESIUM	7.52	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWUF11ICW1

Matrix: WATER **SDG Name:** CTO301318-1

QC Batch ID: UF11ICW1

Concentration Units : ug/L

Analyte	RESULT	C
LEAD	1.700	U

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services | **Client Field ID:** RR-MW-06-0504S

Matrix: WATER | **SDG Name:** CTO301318-1

Percent Solids: 0.00 | **Lab Sample ID:** WU1519-001P

Concentration Units : ug/L

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
LEAD, TOTAL	510.6000		-0.1300	U	500	102.1		75	125	P

Comments:

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services | **Client Field ID:** RR-MW-06-0504S

Matrix: WATER | **SDG Name:** CTO301318-1

Percent Solids: 0.00 | **Lab Sample ID:** WU1519-001S

Concentration Units : ug/L

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
LEAD, TOTAL	511.4500		-0.1300	U	500	102.3		75	125	P

Comments:

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWUF11ICW1

Matrix: WATER **SDG Name:** CTO301318-1

QC Batch ID: UF11ICW1

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
LEAD	500.0	531.85	106.4	80	120

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** A

Instrument Name: TJA TRACE ICP **Date:** 4/28/04

Concentration Units: ug/L

Analyte	CRDL	IDL	M
LEAD	5.0	1.70	P

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** UF11ICW1

Matrix: WATER **SDG Name:** CTO301318-1

Method: P **Prep Date:** 06/11/2004

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWUF11ICW1	LCSWUF11ICW1	0.05	0.05
PBWUF11ICW1	PBWUF11ICW1	0.05	0.05
G01-MW-03-0504	WU1503-003	0.05	0.05
G01-MW-10-0504	WU1503-004	0.05	0.05
G01-MW-12-0504	WU1503-005	0.05	0.05
RR-MW-06-0504	WU1519-001	0.05	0.05
RR-MW-06-0504P	WU1519-001P	0.05	0.05
RR-MW-06-0504S	WU1519-001S	0.05	0.05
A824-MW-01-0504	WU1519-002	0.05	0.05
A824-MW-02-0504	WU1519-003	0.05	0.05
A824-MW-03-0504	WU1519-004	0.05	0.05
KW-DUP-03-0504	WU1519-005	0.05	0.05
FC-MW-05-0504	WU1529-001	0.05	0.05
FC-MW-06-0504	WU1529-002	0.05	0.05
FC-MW-22-0504	WU1529-003	0.05	0.05
KW-DUP-01-0504	WU1529-004	0.05	0.05
G01-MW02-0504	WU1529-005	0.05	0.05
G01-MW04-0504	WU1529-006	0.05	0.05
G01-MW05-0504	WU1529-007	0.05	0.05
G01-MW11-0504	WU1529-008	0.05	0.05

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO301318-1

Instrument ID: TJA TRACE ICP **File Name:** AUF15B

Date: 6/15/04 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements	
S0		1	9:58 Al	Ca	Fe Pb Mg
S1		1	10:04 Al	Ca	Fe Pb Mg
AL_IEC		1	10:14 Al	Ca	Fe Pb Mg
FE_IEC		1	10:21 Al	Ca	Fe Pb Mg
MN_IEC		1	10:28 Al	Ca	Fe Pb Mg
IEC		1	10:34 Al	Ca	Fe Pb Mg
ICV		1	10:41 Al	Ca	Fe Pb Mg
ICB		1	10:48 Al	Ca	Fe Pb Mg
PQL		1	10:55 Al	Ca	Fe Pb Mg
CRI		1	11:01 Al	Ca	Fe Pb Mg
ICSA		1	11:08 Al	Ca	Fe Pb Mg
ICSAB		1	11:15 Al	Ca	Fe Pb Mg
CCV		1	11:21 Al	Ca	Fe Pb Mg
CCB		1	11:28 Al	Ca	Fe Pb Mg
ZZZZZZ		1	11:35		
ZZZZZZ		1	11:42		
ZZZZZZ		1	11:48		
ZZZZZZ		1	11:55		
ZZZZZZ		1	12:02		
ZZZZZZ		5	12:08		
ZZZZZZ		1	12:15		
ZZZZZZ		1	12:22		
ZZZZZZ		20	12:29		
ZZZZZZ		1	12:35		
CCV		1	12:42 Al	Ca	Fe Pb Mg
CCB		1	12:49 Al	Ca	Fe Pb Mg
ZZZZZZ		1	12:55		
ZZZZZZ		1	13:02		
ZZZZZZ		1	13:09		
ZZZZZZ		5	13:16		
ZZZZZZ		1	13:22		
ZZZZZZ		1	13:29		
ZZZZZZ		1	13:36		
ZZZZZZ		1	13:43		
ZZZZZZ		1	13:49		
ZZZZZZ		1	13:56		
CCV		1	14:03 Al	Ca	Fe Pb Mg
CCB		1	14:09 Al	Ca	Fe Pb Mg
ZZZZZZ		1	14:16		
ZZZZZZ		1	14:23		
ZZZZZZ		5	14:29		
ZZZZZZ		1	14:36		
ZZZZZZ		1	14:43		
ZZZZZZ		1	14:50		
ZZZZZZ		1	14:56		
CRI		1	15:03 Al	Ca	Fe Pb Mg
ICSA		1	15:10 Al	Ca	Fe Pb Mg
ICSAB		1	15:16 Al	Ca	Fe Pb Mg
CCV		1	15:23 Al	Ca	Fe Pb Mg
CCB		1	15:30 Al	Ca	Fe Pb Mg

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO301318-1

Instrument ID: TJA TRACE ICP **File Name:** AUF15B

Date: 6/15/04 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements
ZZZZZZ		1	15:37	
ZZZZZZ		1	15:43	
ZZZZZZ		1	15:50	
ZZZZZZ		5	15:57	
ZZZZZZ		1	16:03	
ZZZZZZ		1	16:10	
PBWUF11ICW1		1	16:17	Pb
LCSWUF11ICW1		1	16:23	Pb
WU1503-003	G01-MW-03-0504	1	16:30	Pb
WU1503-004	G01-MW-10-0504	1	16:37	Pb
CCV		1	16:44	Al Ca Fe Pb Mg
CCB		1	16:50	Al Ca Fe Pb Mg
WU1503-005	G01-MW-12-0504	1	16:57	Pb
WU1519-001	RR-MW-06-0504	1	17:04	Pb
WU1519-001L	RR-MW-06-0504L	5	17:11	Pb
WU1519-001P	RR-MW-06-0504P	1	17:17	Pb
WU1519-001S	RR-MW-06-0504S	1	17:24	Pb
WU1519-002	A824-MW-01-0504	1	17:31	Pb
WU1519-003	A824-MW-02-0504	1	17:37	Pb
WU1519-004	A824-MW-03-0504	1	17:44	Pb
WU1519-005	KW-DUP-03-0504	1	17:51	Pb
WU1529-001	FC-MW-05-0504	1	17:58	Pb
CCV		1	18:04	Al Ca Fe Pb Mg
CCB		1	18:11	Al Ca Fe Pb Mg
WU1529-002	FC-MW-06-0504	1	18:18	Pb
WU1529-003	FC-MW-22-0504	1	18:24	Pb
WU1529-004	KW-DUP-01-0504	1	18:31	Pb
WU1529-005	G01-MW02-0504	1	18:38	Pb
WU1529-006	G01-MW04-0504	1	18:45	Pb
WU1529-007	G01-MW05-0504	1	18:51	Pb
WU1529-008	G01-MW11-0504	1	18:58	Pb
CRI		1	19:05	Al Ca Fe Pb Mg
ICSA		1	19:11	Al Ca Fe Pb Mg
ICSAB		1	19:18	Al Ca Fe Pb Mg
CCV		1	19:25	Al Ca Fe Pb Mg
CCB		1	19:31	Al Ca Fe Pb Mg

Quality Control Report

Blank Sample Summary Report

Nitrate As N

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG7713	EPA 353.2	21-MAY-04	N/A	U 0.050 mg/L	.05 mg/L

Sulfate-Turbidimetric

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG7981	EPA 375.4	03-JUN-04	N/A	U 1.0 mg/L	1 mg/L
MBLANK	WG8051	EPA 375.4	07-JUN-04	N/A	U 1.0 mg/L	1 mg/L

Quality Control Report

Blank Sample Summary Report

Nitrate As N

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG7736	EPA 353.2	22-MAY-04	N/A	U 0.050 mg/L	.05 mg/L

Sulfate-Turbidimetric

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG7981	EPA 375.4	03-JUN-04	N/A	U 1.0 mg/L	1 mg/L

Quality Control Report

Blank Sample Summary Report

Nitrate As N

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG7789	EPA 353.2	26-MAY-04	N/A	U 0.050 mg/L	.05 mg/L

Sulfate-Turbidimetric

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG8204	EPA 375.4	17-JUN-04	N/A	U 1.0 mg/L	1 mg/L

Quality Control Report

Laboratory Control Sample Summary Report

Nitrate As N

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG7713-2	LCS	WG7713	21-MAY-04	N/A	mg/L	1	0.94	94	80-120	

Sulfate-Turbidimetric

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG7981-2	LCS	WG7981	03-JUN-04	N/A	mg/L	15	15.	102	80-120	
WG8051-2	LCS	WG8051	07-JUN-04	N/A	mg/L	15	16.	106	80-120	

Quality Control Report

Laboratory Control Sample Summary Report

Nitrate As N

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG7736-2	LCS	WG7736	22-MAY-04	N/A	mg/L	1	0.90	90	80-120	

Sulfate-Turbidimetric

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG7981-2	LCS	WG7981	03-JUN-04	N/A	mg/L	15	15.	102	80-120	

Quality Control Report

Laboratory Control Sample Summary Report

Nitrate As N

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG7789-2	LCS	WG7789	26-MAY-04	N/A	mg/L	1	0.93	93	80-120	

Sulfate-Turbidimetric

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG8204-2	LCS	WG8204	17-JUN-04	N/A	mg/L	15	14.	94	80-120	

Quality Control Report

Matrix Spike Sample Summary Report

Sulfate-Turbidimetric

Matrix Spike Sample ID	Sample Type	Original Sample ID	QC Batch	Analysis Date	Result Units	Spike Amount	Sample Result	MS Result	Recovery (%)	Recovery Limit
WG8051-6	MS	WU1503-5	WG8051	07-JUN-04	mg/L	10	460	400	0*	75 - 125

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Matrix Spike Sample Summary Report

Nitrate As N

Matrix Spike Sample ID	Sample Type	Original Sample ID	QC Batch	Analysis Date	Result Units	Spike Amount	Sample Result	MS Result	Recovery (%)	Recovery Limit
WG7736-3	MS	WU1519-1	WG7736	22-MAY-04	mg/L	.5	J 0.014	0.59	115	75 - 125
WG7736-4	MSD	WU1519-1	WG7736	22-MAY-04	mg/L	.5	J 0.014	0.56	109	75 - 125

Sulfate-Turbidimetric

Matrix Spike Sample ID	Sample Type	Original Sample ID	QC Batch	Analysis Date	Result Units	Spike Amount	Sample Result	MS Result	Recovery (%)	Recovery Limit
WG7981-6	MS	WU1519-1	WG7981	03-JUN-04	mg/L	10	230	220	0*	75 - 125

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sales@katahdinlab.com

Quality Control Report

Matrix Spike Sample Summary Report

Nitrate As N

Matrix Spike Sample ID	Sample Type	Original Sample ID	QC Batch	Analysis Date	Result Units	Spike Amount	Sample Result	MS Result	Recovery (%)	Recovery Limit
WG7789-4	MS	WU1529-5	WG7789	26-MAY-04	mg/L	.5	J 0.034	0.57	106	75 - 125

FIELD DUPLICATE PRECISION

ANALYTE	KW-DUP-01-0504	FC-MW-22-0504	RPD	DIFFERENCE
Lead	42.9	43.1	0.47	0.2

ANALYTE	KW-DUP-03-0504	A824-MW-01-0504	RPD	DIFFERENCE
Lead	1.7U	1.7U	#VALUE!	#VALUE!
Nitrate	0.05U	0.05U	#VALUE!	#VALUE!
Sulfate	46	28	48.65	18

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **C. BRYAN** **DATE:** **JULY 20, 2004**

FROM: **EDWARD SEDLMYER** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOA/PAH/TPH**
CTO 318, NAS KEY WEST
SDG 3182

SAMPLES: 9/Aqueous

G01-MW-01-0504	G01-MW-01A-0504	G01-MW-07-0504
G01-MW-08-0504	G01-MW-09-0504	KW-DUP-02-0504
KW-RINS-01-0504	KWTB-052504	KWTB-052604

OVERVIEW

The sample set for CTO 318 NAS Key West, SDG 3182 consists of one (1) rinse blank, two (2) trip blanks, and six (6) aqueous environmental samples. All samples were analyzed for volatile organic compounds (VOA) including 1,2-dibromoethane (EDB), semivolatile organic compounds (SVOAs), methane, and total petroleum hydrocarbons. The trip blanks were analyzed for VOAs only. One field duplicate was associated with this SDG: KW-DUP-02-0504 / G01-MW-07-0504.

The samples were collected by TetraTech NUS on May 25 and 26, 2004 and analyzed by Katahdin Analytical Services and Air Toxics LTD. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Method 8260B, 8270C, 8270C selective ion monitoring (SIM), Florida PRO, Modified RSK-175, and EPA Method 504 analysis and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
• Initial/continuing calibrations
* • Laboratory method blank results
• Surrogate Recoveries
* • Field Duplicates
• Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

Volatiles

Acetone was detected in trip blank KWTB-052504 at a concentration of 2 ug/L. All positive acetone results have been qualified as estimated (J), except the field quality control samples. Positive results less than 10X the maximum contaminant concentration were qualified (U) due to blank contamination.

Initial calibration and continuing calibration response factor (RF) were less than the 0.05 quality control criterion for acetone on instrument "GCMS-Z" on 5/26/04 and 6/01/04. All positive results for acetone were qualified as estimated (J).

1,2-Dibromoethane (EDB)

No qualification of the data was necessary.

Semivolatiles/PAH

Samples G01-MW-08-0504 (20X) and G01-MW-09-0504 (5X) analyzed for PAHs required dilutions due to high concentrations of target compounds. The diluted results for these compounds have been transposed to the initial analysis and were used for validation. The initial analysis provides the lowest valid detection limit for the non-detected PAHs.

The PAH compounds were reported in the 8270C and 8270 SIM analyses for samples G01-MW-07-0504, G01-MW-08-0504, G01-MW-09-0504, and KW-DUP-02-0504. No action was taken on this basis.

The laboratory incorrectly identified N-nitroso-di-n-propylamine as a detection in sample G01-MW-09-0504. The result has been changed to a non-detect in the database.

Total Petroleum Hydrocarbon

The surrogate recovery for samples G01-MW-01A-0504, G01-MW-09-0504, and G01-MW-01-0504 were less than the quality control criterion for surrogate O-terphenyl. No action was taken on this basis because the other surrogate had acceptable recoveries.

Additional Comments:

Positive results less than the reporting limit (RL) were qualified as estimated "J", due to uncertainty near the detection limit.

The detection limits for bromodichloromethane, dibromochloromethane, cis-1,3-dichloropropene, trans-1,3-dichloropropene, 1,1,2,2-tetrachloroethane, vinyl chloride, and methane were greater than the detection limits stated in the laboratory specification. No action was taken on this basis.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Detection limits for bromodichloromethane, dibromochloromethane, cis-1,3-dichloropropene, trans-1,3-dichloropropene, 1,1,2,2-tetrachloroethane, vinyl chloride, and methane were greater than defined in the laboratory specification. Acetone had a response factor less than the quality control criterion.

Other Factors Affecting Data Quality: The TPH fraction had surrogate recoveries outside of the criteria limits. Acetone was detected in a trip blank.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99), and the NFESC guidelines IRCDQM (Sept., 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS

Edward Sedlmyer
Chemist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: OV

nsample	G01-MW-01-0504
samp_date	5/26/2004
lab_id	WU1571-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

nsample	G01-MW-01-0504
samp_date	5/26/2004
lab_id	WU1571-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

nsample	G01-MW-01A-0504
samp_date	5/25/2004
lab_id	WU1552-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	0.1	J	P
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: OV

nsample	G01-MW-01A-0504
samp_date	5/25/2004
lab_id	WU1552-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

nsample	G01-MW-07-0504
samp_date	5/25/2004
lab_id	WU1564-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1		
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,3-TRIMETHYLBENZENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRICHLOROBENZENE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	1	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	B

nsample	G01-MW-07-0504
samp_date	5/25/2004
lab_id	WU1564-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	0.1	J	P
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	2		
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	2		
CIS-1,3-DICHLOROPROPENE	1	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	2	U	
DIETHYL ETHER	1	U	
ETHYLBENZENE	1	U	
HEXACHLOROBUTADIENE	1	U	
ISOPROPYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
NAPHTHALENE	0.5	J	P
N-BUTYLBENZENE	1	U	
N-PROPYLBENZENE	1	U	
O-XYLENE	1	U	
SEC-BUTYLBENZENE	1	U	
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	
TETRACHLOROETHENE	1	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: OV

nsample	G01-MW-07-0504
samp_date	5/25/2004
lab_id	WU1564-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TETRAHYDROFURAN	5	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2.3		
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	0.3	J	P
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	0.3	J	P
TRICHLOROFLUOROMETHANE	2	U	
VINYL ACETATE	1	U	
VINYL CHLORIDE	2	U	

nsample	G01-MW-08-0504
samp_date	5/25/2004
lab_id	WU1564-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	3		
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,3-TRIMETHYLBENZENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRICHLOROBENZENE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	1	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	0.6	J	P
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	B

nsample	G01-MW-08-0504
samp_date	5/25/2004
lab_id	WU1564-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	6		
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	0.2	J	P
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	0.9	J	P
CIS-1,3-DICHLOROPROPENE	1	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	2	U	
DIETHYL ETHER	1	U	
ETHYLBENZENE	4		
HEXACHLOROBUTADIENE	1	U	
ISOPROPYLBENZENE	2		
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
NAPHTHALENE	31		
N-BUTYLBENZENE	0.9	J	P
N-PROPYLBENZENE	2		
O-XYLENE	1	U	
SEC-BUTYLBENZENE	2		
STYRENE	1	U	
TERT-BUTYLBENZENE	0.7	J	P
TETRACHLOROETHENE	1	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: OV

nsample	G01-MW-08-0504
samp_date	5/25/2004
lab_id	WU1564-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TETRAHYDROFURAN	5	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	0.9	J	P
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	2	U	
VINYL ACETATE	1	U	
VINYL CHLORIDE	2	U	

nsample	G01-MW-09-0504
samp_date	5/25/2004
lab_id	WU1564-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	0.5	J	P
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,3-TRIMETHYLBENZENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRICHLOROBENZENE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	1	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	4		
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	B

nsample	G01-MW-09-0504
samp_date	5/25/2004
lab_id	WU1564-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	0.2	J	P
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	0.2	J	P
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	0.8	J	P
CIS-1,3-DICHLOROPROPENE	1	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	2	U	
DIETHYL ETHER	1	U	
ETHYLBENZENE	0.3	J	P
HEXACHLOROBUTADIENE	1	U	
ISOPROPYLBENZENE	0.7	J	P
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
NAPHTHALENE	4		
N-BUTYLBENZENE	0.4	J	P
N-PROPYLBENZENE	0.9	J	P
O-XYLENE	1	U	
SEC-BUTYLBENZENE	0.5	J	P
STYRENE	1	U	
TERT-BUTYLBENZENE	0.5	J	P
TETRACHLOROETHENE	1	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: OV

nsample	G01-MW-09-0504
samp_date	5/25/2004
lab_id	WU1564-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TETRAHYDROFURAN	5	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	0.8	J	P
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	2	U	
VINYL ACETATE	1	U	
VINYL CHLORIDE	2	U	

nsample	KW-DUP-02-0504
samp_date	5/25/2004
lab_id	WU1564-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	G01-MW-07-0504

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	0.6	J	P
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,3-TRIMETHYLBENZENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRICHLOROBENZENE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	1	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	5	U	B

nsample	KW-DUP-02-0504
samp_date	5/25/2004
lab_id	WU1564-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	G01-MW-07-0504

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	0.8	J	P
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	0.8	J	P
CIS-1,3-DICHLOROPROPENE	1	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	2	U	
DIETHYL ETHER	1	U	
ETHYLBENZENE	1	U	
HEXACHLOROBUTADIENE	1	U	
ISOPROPYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
NAPHTHALENE	0.4	J	P
N-BUTYLBENZENE	1	U	
N-PROPYLBENZENE	1	U	
O-XYLENE	1	U	
SEC-BUTYLBENZENE	1	U	
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	
TETRACHLOROETHENE	1	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: OV

nsample	KW-DUP-02-0504
samp_date	5/25/2004
lab_id	WU1564-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	G01-MW-07-0504

Parameter	Result	Val Qual	Qual Code
TETRAHYDROFURAN	5	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	0.8	J	P
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	2	U	
VINYL ACETATE	1	U	
VINYL CHLORIDE	2	U	

nsample	KW-RINS-01-0504
samp_date	5/26/2004
lab_id	WU1571-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	0.2	J	P
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	

nsample	KW-RINS-01-0504
samp_date	5/26/2004
lab_id	WU1571-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: OV

nsample	KWTB-052504
samp_date	5/25/2004
lab_id	WU1564-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1,2-TETRACHLOROETHANE	1	U	
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,1-DICHLOROPROPENE	1	U	
1,2,3-TRICHLOROBENZENE	1	U	
1,2,3-TRICHLOROPROPANE	1	U	
1,2,3-TRIMETHYLBENZENE	1	U	
1,2,4-TRICHLOROBENZENE	1	U	
1,2,4-TRIMETHYLBENZENE	1	U	
1,2-DIBROMO-3-CHLOROPROPANE	1	U	
1,2-DIBROMOETHANE	1	U	
1,2-DICHLOROBENZENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
1,3,5-TRICHLOROBENZENE	1	U	
1,3,5-TRIMETHYLBENZENE	1	U	
1,3-DICHLOROBENZENE	1	U	
1,3-DICHLOROPROPANE	1	U	
1,4-DICHLOROBENZENE	1	U	
2,2-DICHLOROPROPANE	1	U	
2-BUTANONE	5	U	
2-CHLOROETHYL VINYL ETHER	1	U	
2-CHLOROTOLUENE	1	U	
2-HEXANONE	5	U	
4-CHLOROTOLUENE	1	U	
4-ISOPROPYLTOLUENE	1	U	
4-METHYL-2-PENTANONE	5	U	
ACETONE	2	J	CP

nsample	KWTB-052504
samp_date	5/25/2004
lab_id	WU1564-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZENE	1	U	
BROMOBENZENE	1	U	
BROMOCHLOROMETHANE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON DISULFIDE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
DIBROMOMETHANE	1	U	
DICHLORODIFLUOROMETHANE	2	U	
DIETHYL ETHER	1	U	
ETHYLBENZENE	1	U	
HEXACHLOROBUTADIENE	1	U	
ISOPROPYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
NAPHTHALENE	1	U	
N-BUTYLBENZENE	1	U	
N-PROPYLBENZENE	1	U	
O-XYLENE	1	U	
SEC-BUTYLBENZENE	1	U	
STYRENE	1	U	
TERT-BUTYLBENZENE	1	U	
TETRACHLOROETHENE	1	U	

nsample	KWTB-052504
samp_date	5/25/2004
lab_id	WU1564-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TETRAHYDROFURAN	5	U	
TOLUENE	1	U	
TOTAL 1,2-DICHLOROETHENE	2	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
TRICHLOROFLUOROMETHANE	2	U	
VINYL ACETATE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: OV

nsample	KWTB-052604
samp_date	5/26/2004
lab_id	WU1571-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	1	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	U	
BENZENE	1	U	
BROMODICHLOROMETHANE	1	U	
BROMOFORM	1	U	
BROMOMETHANE	2	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	1	U	
CHLOROETHANE	2	U	
CHLOROFORM	1	U	
CHLOROMETHANE	2	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	1	U	
ETHYLBENZENE	1	U	
M+P-XYLENES	2	U	
METHYL TERT-BUTYL ETHER	2	U	
METHYLENE CHLORIDE	2	U	
O-XYLENE	1	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	3	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	1	U	
TRICHLOROETHENE	1	U	
VINYL CHLORIDE	2	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: OS

nsample	G01-MW-07-0504
samp_date	5/25/2004
lab_id	WU1552-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	10	U	
1,2-DICHLOROBENZENE	10	U	
1,3-DICHLOROBENZENE	10	U	
1,4-DICHLOROBENZENE	10	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U	
2,4,5-TRICHLOROPHENOL	25	U	
2,4,6-TRICHLOROPHENOL	10	U	
2,4-DICHLOROPHENOL	10	U	
2,4-DIMETHYLPHENOL	10	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	10	U	
2,6-DINITROTOLUENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	U	
2-METHYLNAPHTHALENE	10	U	
2-METHYLPHENOL	10	U	
2-NITROANILINE	25	U	
2-NITROPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	25	U	
4,6-DINITRO-2-METHYLPHENOL	25	U	
4-BROMOPHENYL PHENYL ETHER	10	U	
4-CHLORO-3-METHYLPHENOL	10	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ETHER	10	U	
4-METHYLPHENOL	10	U	
4-NITROANILINE	25	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	10	U	
ACENAPHTHYLENE	10	U	
ANTHRACENE	10	U	
BENZO(A)ANTHRACENE	10	U	

nsample	G01-MW-07-0504
samp_date	5/25/2004
lab_id	WU1552-3
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)PYRENE	10	U	
BENZO(B)FLUORANTHENE	10	U	
BENZO(G,H,I)PERYLENE	10	U	
BENZO(K)FLUORANTHENE	10	U	
BIS(2-CHLOROETHOXY)METHANE	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	
BUTYL BENZYL PHTHALATE	10	U	
CARBAZOLE	10	U	
CHRYSENE	10	U	
DIBENZO(A,H)ANTHRACENE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	10	U	
DIMETHYL PHTHALATE	10	U	
DI-N-BUTYL PHTHALATE	10	U	
DI-N-OCTYL PHTHALATE	10	U	
FLUORANTHENE	10	U	
FLUORENE	10	U	
HEXACHLOROBENZENE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADIENE	10	U	
HEXACHLOROETHANE	10	U	
INDENO(1,2,3-CD)PYRENE	10	U	
ISOPHORONE	10	U	
NAPHTHALENE	10	U	
NITROBENZENE	10	U	
N-NITROSO-DI-N-PROPYLAMINE	10	U	
N-NITROSODIPHENYLAMINE	10	U	
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	10	U	
PHENOL	10	U	
PYRENE	10	U	

nsample	G01-MW-08-0504
samp_date	5/25/2004
lab_id	WU1552-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	10	U	
1,2-DICHLOROBENZENE	10	U	
1,3-DICHLOROBENZENE	10	U	
1,4-DICHLOROBENZENE	10	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U	
2,4,5-TRICHLOROPHENOL	25	U	
2,4,6-TRICHLOROPHENOL	10	U	
2,4-DICHLOROPHENOL	10	U	
2,4-DIMETHYLPHENOL	10	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	10	U	
2,6-DINITROTOLUENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	U	
2-METHYLNAPHTHALENE	42		
2-METHYLPHENOL	10	U	
2-NITROANILINE	25	U	
2-NITROPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	25	U	
4,6-DINITRO-2-METHYLPHENOL	25	U	
4-BROMOPHENYL PHENYL ETHER	10	U	
4-CHLORO-3-METHYLPHENOL	10	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ETHER	10	U	
4-METHYLPHENOL	10	U	
4-NITROANILINE	25	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	2	J	P
ACENAPHTHYLENE	10	U	
ANTHRACENE	10	U	
BENZO(A)ANTHRACENE	10	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: OS

nsample	G01-MW-08-0504
samp_date	5/25/2004
lab_id	WU1552-5
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)PYRENE	10	U	
BENZO(B)FLUORANTHENE	10	U	
BENZO(G,H,I)PERYLENE	10	U	
BENZO(K)FLUORANTHENE	10	U	
BIS(2-CHLOROETHOXY)METHANE	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	
BUTYL BENZYL PHTHALATE	10	U	
CARBAZOLE	10	U	
CHRYSENE	10	U	
DIBENZO(A,H)ANTHRACENE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	10	U	
DIMETHYL PHTHALATE	10	U	
DI-N-BUTYL PHTHALATE	10	U	
DI-N-OCTYL PHTHALATE	10	U	
FLUORANTHENE	10	U	
FLUORENE	3	J	P
HEXACHLOROBENZENE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADIENE	10	U	
HEXACHLOROETHANE	10	U	
INDENO(1,2,3-CD)PYRENE	10	U	
ISOPHORONE	10	U	
NAPHTHALENE	26		
NITROBENZENE	10	U	
N-NITROSO-DI-N-PROPYLAMINE	10	U	
N-NITROSODIPHENYLAMINE	10	U	
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	4	J	P
PHENOL	10	U	
PYRENE	10	U	

nsample	G01-MW-09-0504
samp_date	5/25/2004
lab_id	WU1552-7
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	10	U	
1,2-DICHLOROBENZENE	10	U	
1,3-DICHLOROBENZENE	10	U	
1,4-DICHLOROBENZENE	10	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U	
2,4,5-TRICHLOROPHENOL	25	U	
2,4,6-TRICHLOROPHENOL	10	U	
2,4-DICHLOROPHENOL	10	U	
2,4-DIMETHYLPHENOL	10	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	10	U	
2,6-DINITROTOLUENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	U	
2-METHYLNAPHTHALENE	36		
2-METHYLPHENOL	10	U	
2-NITROANILINE	25	U	
2-NITROPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	25	U	
4,6-DINITRO-2-METHYLPHENOL	25	U	
4-BROMOPHENYL PHENYL ETHER	10	U	
4-CHLORO-3-METHYLPHENOL	10	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ETHER	10	U	
4-METHYLPHENOL	10	U	
4-NITROANILINE	25	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	10	U	
ACENAPHTHYLENE	10	U	
ANTHRACENE	10	U	
BENZO(A)ANTHRACENE	10	U	

nsample	G01-MW-09-0504
samp_date	5/25/2004
lab_id	WU1552-7
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)PYRENE	10	U	
BENZO(B)FLUORANTHENE	10	U	
BENZO(G,H,I)PERYLENE	10	U	
BENZO(K)FLUORANTHENE	10	U	
BIS(2-CHLOROETHOXY)METHANE	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	
BUTYL BENZYL PHTHALATE	10	U	
CARBAZOLE	10	U	
CHRYSENE	10	U	
DIBENZO(A,H)ANTHRACENE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	10	U	
DIMETHYL PHTHALATE	10	U	
DI-N-BUTYL PHTHALATE	10	U	
DI-N-OCTYL PHTHALATE	10	U	
FLUORANTHENE	10	U	
FLUORENE	3	J	P
HEXACHLOROBENZENE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADIENE	10	U	
HEXACHLOROETHANE	10	U	
INDENO(1,2,3-CD)PYRENE	10	U	
ISOPHORONE	10	U	
NAPHTHALENE	23		
NITROBENZENE	10	U	
N-NITROSO-DI-N-PROPYLAMINE	10	U	P
N-NITROSODIPHENYLAMINE	10	U	
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	3	J	P
PHENOL	10	U	
PYRENE	10	U	

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PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: OS

nsample	KW-DUP-02-0504
samp_date	5/25/2004
lab_id	WU1552-9
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	G01-MW-07-0504

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	10	U	
1,2-DICHLOROBENZENE	10	U	
1,3-DICHLOROBENZENE	10	U	
1,4-DICHLOROBENZENE	10	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	10	U	
2,4,5-TRICHLOROPHENOL	25	U	
2,4,6-TRICHLOROPHENOL	10	U	
2,4-DICHLOROPHENOL	10	U	
2,4-DIMETHYLPHENOL	10	U	
2,4-DINITROPHENOL	25	U	
2,4-DINITROTOLUENE	10	U	
2,6-DINITROTOLUENE	10	U	
2-CHLORONAPHTHALENE	10	U	
2-CHLOROPHENOL	10	U	
2-METHYLNAPHTHALENE	10		
2-METHYLPHENOL	10	U	
2-NITROANILINE	25	U	
2-NITROPHENOL	10	U	
3,3'-DICHLOROBENZIDINE	10	U	
3-NITROANILINE	25	U	
4,6-DINITRO-2-METHYLPHENOL	25	U	
4-BROMOPHENYL PHENYL ETHER	10	U	
4-CHLORO-3-METHYLPHENOL	10	U	
4-CHLOROANILINE	10	U	
4-CHLOROPHENYL PHENYL ETHER	10	U	
4-METHYLPHENOL	10	U	
4-NITROANILINE	25	U	
4-NITROPHENOL	25	U	
ACENAPHTHENE	10	U	
ACENAPHTHYLENE	10	U	
ANTHRACENE	10	U	
BENZO(A)ANTHRACENE	10	U	

nsample	KW-DUP-02-0504
samp_date	5/25/2004
lab_id	WU1552-9
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	G01-MW-07-0504

Parameter	Result	Val Qual	Qual Code
BENZO(A)PYRENE	10	U	
BENZO(B)FLUORANTHENE	6	J	P
BENZO(G,H,I)PERYLENE	10	U	
BENZO(K)FLUORANTHENE	10	U	
BIS(2-CHLOROETHOXY)METHANE	10	U	
BIS(2-CHLOROETHYL)ETHER	10	U	
BIS(2-ETHYLHEXYL)PHTHALATE	10	U	
BUTYL BENZYL PHTHALATE	10	U	
CARBAZOLE	10	U	
CHRYSENE	10	U	
DIBENZO(A,H)ANTHRACENE	10	U	
DIBENZOFURAN	10	U	
DIETHYL PHTHALATE	10	U	
DIMETHYL PHTHALATE	10	U	
DI-N-BUTYL PHTHALATE	10	U	
DI-N-OCTYL PHTHALATE	10	U	
FLUORANTHENE	10	U	
FLUORENE	10	U	
HEXACHLOROBENZENE	10	U	
HEXACHLOROBUTADIENE	10	U	
HEXACHLOROCYCLOPENTADIENE	10	U	
HEXACHLOROETHANE	10	U	
INDENO(1,2,3-CD)PYRENE	10	U	
ISOPHORONE	10	U	
NAPHTHALENE	15		
NITROBENZENE	10	U	
N-NITROSO-DI-N-PROPYLAMINE	10	U	
N-NITROSODIPHENYLAMINE	10	U	
PENTACHLOROPHENOL	25	U	
PHENANTHRENE	10	U	
PHENOL	10	U	
PYRENE	10	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: OVG

nsample	G01-MW-01-0504
samp_date	5/26/2004
lab_id	0405498-06A
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHANE	0.4		

nsample	G01-MW-01A-0504
samp_date	5/25/2004
lab_id	0405498-01A
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHANE	0.19		

nsample	G01-MW-07-0504
samp_date	5/25/2004
lab_id	0405498-02A
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHANE	1		

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: OVG

nsample	G01-MW-08-0504
samp_date	5/25/2004
lab_id	0405498-03A
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHANE	6.1		

nsample	G01-MW-09-0504
samp_date	5/25/2004
lab_id	0405498-04A
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
METHANE	2.6		

nsample	KW-DUP-02-0504
samp_date	5/25/2004
lab_id	0405498-05A
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	G01-MW-07-0504

Parameter	Result	Val Qual	Qual Code
METHANE	0.84		

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: PAH

nsample	G01-MW-01-0504
samp_date	5/26/2004
lab_id	WU1571-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

nsample	G01-MW-01A-0504
samp_date	5/25/2004
lab_id	WU1552-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.2	U	
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

nsample	G01-MW-07-0504
samp_date	5/25/2004
lab_id	WU1552-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	1.6		
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.16	J	P
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.29		
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.14	J	P
PHENANTHRENE	0.62		
PYRENE	0.2	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: PAH

nsample	G01-MW-08-0504	nsample	G01-MW-09-0504	nsample	KW-DUP-02-0504
samp_date	5/25/2004	samp_date	5/25/2004	samp_date	5/25/2004
lab_id	WU1552-4	lab_id	WU1552-6	lab_id	WU1552-8
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	G01-MW-07-0504

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	34		
2-METHYLNAPHTHALENE	47		
ACENAPHTHENE	1.9		
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	2.6		
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	21		
PHENANTHRENE	3.3	J	P
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	14		
2-METHYLNAPHTHALENE	13		
ACENAPHTHENE	1.3		
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	1.1		
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	13		
PHENANTHRENE	1.2		
PYRENE	0.2	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	1.7		
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.17	J	P
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.29		
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.14	J	P
PHENANTHRENE	0.52		
PYRENE	0.2	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: PAH

nsample	KW-RINS-01-0504
samp_date	5/26/2004
lab_id	WU1571-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	0.2	U	
2-METHYLNAPHTHALENE	0.2	U	
ACENAPHTHENE	0.2	U	
ACENAPHTHYLENE	0.2	U	
ANTHRACENE	0.2	U	
BENZO(A)ANTHRACENE	0.2	U	
BENZO(A)PYRENE	0.2	U	
BENZO(B)FLUORANTHENE	0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U	
BENZO(K)FLUORANTHENE	0.2	U	
CHRYSENE	0.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U	
FLUORANTHENE	0.2	U	
FLUORENE	0.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U	
NAPHTHALENE	0.12	J	P
PHENANTHRENE	0.2	U	
PYRENE	0.2	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: PET

nsample	G01-MW-01-0504
samp_date	5/26/2004
lab_id	WU1571-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

nsample	G01-MW-01A-0504
samp_date	5/25/2004
lab_id	WU1552-1
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

nsample	G01-MW-07-0504
samp_date	5/25/2004
lab_id	WU1552-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	450	J	P

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: PET

nsample	G01-MW-08-0504
samp_date	5/25/2004
lab_id	WU1552-4
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	1300		

nsample	G01-MW-09-0504
samp_date	5/25/2004
lab_id	WU1552-6
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	2700		

nsample	KW-DUP-02-0504
samp_date	5/25/2004
lab_id	WU1552-8
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	G01-MW-07-0504

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	530		

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: PET

nsample	KW-RINS-01-0504
samp_date	5/26/2004
lab_id	WU1571-2
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/26/04
Received Date: 05/27/04
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/11/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1571-1
Client ID: G01-MW-01-0504
SDG: CTO301318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		106%				
17060-07-0	1,2-Dichloroethane-D4		108%				
2037-26-5	Toluene-D8		103%				
460-00-4	P-Bromofluorobenzene		98%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/11/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-1
Client ID: G01-MW-01A-0504
SDG: CTO301318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	J	0.1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		106%				
17060-07-0	1,2-Dichloroethane-D4		108%				
2037-26-5	Toluene-D8		104%				
460-00-4	P-Bromofluorobenzene		97%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/11/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1564-1
Client ID: G01-MW-07-0504
SDG: CTO301318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
60-29-7	Diethyl Ether	U	1	1.0	1	1	0.1
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-15-0	Carbon Disulfide		2	1.0	1	1	0.2
76-13-1	Freon-113	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
67-64-1	Acetone	J	3	1.0	5	5	1
156-60-5	trans-1,2-Dichloroethene	J	0.3	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane		1	1.0	1	1	0.1
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.8
156-59-2	cis-1,2-Dichloroethene		2	1.0	1	1	0.09
540-59-0	1,2-Dichloroethylene (total)	J	2	1.0	2	2	0.2
594-20-7	2,2-Dichloropropane	U	1	1.0	1	1	0.2
74-97-5	Bromochloromethane	U	1	1.0	1	1	0.1
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
563-58-6	1,1-Dichloropropene	U	1	1.0	1	1	0.9
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	J	0.1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	J	0.3	1.0	1	1	0.08
74-95-3	Dibromomethane	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	0.8
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
142-28-9	1,3-Dichloropropane	U	1	1.0	1	1	0.2
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.09
591-78-6	2-Hexanone	U	5	1.0	5	5	1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/11/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1564-1
Client ID: G01-MW-07-0504
SDG: CTO301318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
630-20-6	1,1,1,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.1
98-82-8	Isopropylbenzene	U	1	1.0	1	1	0.3
108-86-1	Bromobenzene	U	1	1.0	1	1	0.2
103-65-1	N-Propylbenzene	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-49-8	2-Chlorotoluene	U	1	1.0	1	1	0.2
96-18-4	1,2,3-Trichloropropane	U	1	1.0	1	1	0.1
106-43-4	4-Chlorotoluene	U	1	1.0	1	1	0.2
98-06-6	tert-Butylbenzene	U	1	1.0	1	1	0.3
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.3
99-87-6	P-Isopropyltoluene	U	1	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.2
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
104-51-8	N-Butylbenzene	U	1	1.0	1	1	0.3
135-98-8	sec-Butylbenzene	U	1	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	1	1.0	1	1	0.4
108-70-3	1,3,5-Trichlorobenzene	U	1	1.0	1	1	0.3
87-68-3	Hexachlorobutadiene	U	1	1.0	1	1	0.4
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.2
526-73-8	1,2,3-Trimethylbenzene	U	1	1.0	1	1	0.2
91-20-3	Naphthalene	J	0.5	1.0	1	1	0.4
87-61-6	1,2,3-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		102%				
17060-07-0	1,2-Dichloroethane-D4		104%				
2037-26-5	Toluene-D8		103%				
460-00-4	P-Bromofluorobenzene		96%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

G01-MW-07-0504

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Matrix: (soil/water) WATER Lab Sample ID: WU1564-1

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: Z1737

Level: (low/med) LOW Date Received: 05/26/04

% Moisture: not dec. _____ Date Analyzed: 06/01/04

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	2.08	1	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/11/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1564-2
Client ID: G01-MW-08-0504
SDG: CTO301318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
60-29-7	Diethyl Ether	U	1	1.0	1	1	0.1
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-15-0	Carbon Disulfide	J	0.2	1.0	1	1	0.2
76-13-1	Freon-113	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
67-64-1	Acetone	J	1	1.0	5	5	1
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane		3	1.0	1	1	0.1
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.8
156-59-2	cis-1,2-Dichloroethene	J	0.9	1.0	1	1	0.09
540-59-0	1,2-Dichloroethylene (total)	J	0.9	1.0	2	2	0.2
594-20-7	2,2-Dichloropropane	U	1	1.0	1	1	0.2
74-97-5	Bromochloromethane	U	1	1.0	1	1	0.1
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
563-58-6	1,1-Dichloropropene	U	1	1.0	1	1	0.9
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene		6	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
74-95-3	Dibromomethane	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	0.8
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
142-28-9	1,3-Dichloropropane	U	1	1.0	1	1	0.2
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.09
591-78-6	2-Hexanone	U	5	1.0	5	5	1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/11/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1564-2
Client ID: G01-MW-08-0504
SDG: CTO301318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene		4	1.0	1	1	0.2
630-20-6	1,1,1,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.1
98-82-8	Isopropylbenzene		2	1.0	1	1	0.3
108-86-1	Bromobenzene	U	1	1.0	1	1	0.2
103-65-1	N-Propylbenzene		2	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-49-8	2-Chlorotoluene	U	1	1.0	1	1	0.2
96-18-4	1,2,3-Trichloropropane	U	1	1.0	1	1	0.1
106-43-4	4-Chlorotoluene	U	1	1.0	1	1	0.2
98-06-6	tert-Butylbenzene	J	0.7	1.0	1	1	0.3
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.3
99-87-6	P-Isopropyltoluene	J	0.6	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.2
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
104-51-8	N-Butylbenzene	J	0.9	1.0	1	1	0.3
135-98-8	sec-Butylbenzene		2	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	1	1.0	1	1	0.4
108-70-3	1,3,5-Trichlorobenzene	U	1	1.0	1	1	0.3
87-68-3	Hexachlorobutadiene	U	1	1.0	1	1	0.4
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.2
526-73-8	1,2,3-Trimethylbenzene	U	1	1.0	1	1	0.2
91-20-3	Naphthalene		31	1.0	1	1	0.4
87-61-6	1,2,3-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		109%				
17060-07-0	1,2-Dichloroethane-D4		106%				
2037-26-5	Toluene-D8		105%				
460-00-4	P-Bromofluorobenzene		96%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

G01-MW-08-0504

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Matrix: (soil/water) WATER Lab Sample ID: WU1564-2

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: Z1738

Level: (low/med) LOW Date Received: 05/26/04

% Moisture: not dec. _____ Date Analyzed: 06/01/04

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		C9H10 ISOMER	14.97	1	J
2.	874-41-9	BENZENE, 1-ETHYL-2,4-DIMETHY	15.22	1	NJ
3.	767-58-8	INDAN, 1-METHYL-	15.31	2	NJ
4.	95-93-2	BENZENE, 1,2,4,5-TETRAMETHYL	15.46	1	NJ
5.		C10H12 ISOMER	15.77	4	J
6.	91-57-6	NAPHTHALENE, 2-METHYL-	17.19	7	NJ
7.	91-57-6	NAPHTHALENE, 2-METHYL-	17.35	6	NJ
8.	575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	18.21	2	NJ
9.	575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	18.37	2	NJ
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/11/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1564-3
Client ID: G01-MW-09-0504
SDG: CTO301318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
60-29-7	Diethyl Ether	U	1	1.0	1	1	0.1
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-15-0	Carbon Disulfide	J	0.2	1.0	1	1	0.2
76-13-1	Freon-113	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
67-64-1	Acetone	J	3	1.0	5	5	1
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	J	0.5	1.0	1	1	0.1
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.8
156-59-2	cis-1,2-Dichloroethene	J	0.8	1.0	1	1	0.09
540-59-0	1,2-Dichloroethylene (total)	J	0.8	1.0	2	2	0.2
594-20-7	2,2-Dichloropropane	U	1	1.0	1	1	0.2
74-97-5	Bromochloromethane	U	1	1.0	1	1	0.1
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
563-58-6	1,1-Dichloropropene	U	1	1.0	1	1	0.9
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	J	0.2	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
74-95-3	Dibromomethane	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	0.8
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
142-28-9	1,3-Dichloropropane	U	1	1.0	1	1	0.2
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.09
591-78-6	2-Hexanone	U	5	1.0	5	5	1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/11/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1564-3
Client ID: G01-MW-09-0504
SDG: CTO301318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	J	0.3	1.0	1	1	0.2
630-20-6	1,1,1,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.1
98-82-8	Isopropylbenzene	J	0.7	1.0	1	1	0.3
108-86-1	Bromobenzene	U	1	1.0	1	1	0.2
103-65-1	N-Propylbenzene	J	0.9	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-49-8	2-Chlorotoluene	U	1	1.0	1	1	0.2
96-18-4	1,2,3-Trichloropropane	U	1	1.0	1	1	0.1
106-43-4	4-Chlorotoluene	U	1	1.0	1	1	0.2
98-06-6	tert-Butylbenzene	J	0.5	1.0	1	1	0.3
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.3
99-87-6	P-Isopropyltoluene		4	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.2
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
104-51-8	N-Butylbenzene	J	0.4	1.0	1	1	0.3
135-98-8	sec-Butylbenzene	J	0.5	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	1	1.0	1	1	0.4
108-70-3	1,3,5-Trichlorobenzene	U	1	1.0	1	1	0.3
87-68-3	Hexachlorobutadiene	U	1	1.0	1	1	0.4
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.2
526-73-8	1,2,3-Trimethylbenzene	U	1	1.0	1	1	0.2
91-20-3	Naphthalene		4	1.0	1	1	0.4
87-61-6	1,2,3-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		104%				
17060-07-0	1,2-Dichloroethane-D4		106%				
2037-26-5	Toluene-D8		105%				
460-00-4	P-Bromofluorobenzene		96%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

G01-MW-09-0504

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Matrix: (soil/water) WATER Lab Sample ID: WU1564-3

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: Z1739

Level: (low/med) LOW Date Received: 05/26/04

% Moisture: not dec. _____ Date Analyzed: 06/01/04

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	2.08	1	J
2.		UNKNOWN ALKANE	2.72	2	J
3.	90-12-0	NAPHTHALENE, 1-METHYL-	17.19	1	NJ
4.	91-57-6	NAPHTHALENE, 2-METHYL-	17.35	1	NJ
5.	571-58-4	NAPHTHALENE, 1,4-DIMETHYL-	18.37	1	NJ
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/11/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1564-4
Client ID: KW-DUP-02-0504
SDG: CTO301318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
60-29-7	Diethyl Ether	U	1	1.0	1	1	0.1
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-15-0	Carbon Disulfide	J	0.8	1.0	1	1	0.2
76-13-1	Freon-113	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
67-64-1	Acetone	J	2	1.0	5	5	1
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	J	0.6	1.0	1	1	0.1
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.8
156-59-2	cis-1,2-Dichloroethene	J	0.8	1.0	1	1	0.09
540-59-0	1,2-Dichloroethylene (total)	J	0.8	1.0	2	2	0.2
594-20-7	2,2-Dichloropropane	U	1	1.0	1	1	0.2
74-97-5	Bromochloromethane	U	1	1.0	1	1	0.1
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
563-58-6	1,1-Dichloropropene	U	1	1.0	1	1	0.9
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
74-95-3	Dibromomethane	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	0.8
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
142-28-9	1,3-Dichloropropane	U	1	1.0	1	1	0.2
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.09
591-78-6	2-Hexanone	U	5	1.0	5	5	1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/11/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1564-4
Client ID: KW-DUP-02-0504
SDG: CTO301318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
630-20-6	1,1,1,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.1
98-82-8	Isopropylbenzene	U	1	1.0	1	1	0.3
108-86-1	Bromobenzene	U	1	1.0	1	1	0.2
103-65-1	N-Propylbenzene	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-49-8	2-Chlorotoluene	U	1	1.0	1	1	0.2
96-18-4	1,2,3-Trichloropropane	U	1	1.0	1	1	0.1
106-43-4	4-Chlorotoluene	U	1	1.0	1	1	0.2
98-06-6	tert-Butylbenzene	U	1	1.0	1	1	0.3
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.3
99-87-6	P-Isopropyltoluene	U	1	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.2
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
104-51-8	N-Butylbenzene	U	1	1.0	1	1	0.3
135-98-8	sec-Butylbenzene	U	1	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	1	1.0	1	1	0.4
108-70-3	1,3,5-Trichlorobenzene	U	1	1.0	1	1	0.3
87-68-3	Hexachlorobutadiene	U	1	1.0	1	1	0.4
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.2
526-73-8	1,2,3-Trimethylbenzene	U	1	1.0	1	1	0.2
91-20-3	Naphthalene	J	0.4	1.0	1	1	0.4
87-61-6	1,2,3-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		103%				
17060-07-0	1,2-Dichloroethane-D4		106%				
2037-26-5	Toluene-D8		103%				
460-00-4	P-Bromofluorobenzene		97%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

KW-DUP-02-0504

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Matrix: (soil/water) WATER Lab Sample ID: WU1564-4

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: Z1740

Level: (low/med) LOW Date Received: 05/26/04

% Moisture: not dec. _____ Date Analyzed: 06/01/04

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/26/04
Received Date: 05/27/04
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/11/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1571-2
Client ID: KW-RINS-01-0504
SDG: CTO301318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	J	0.2	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		107%				
17060-07-0	1,2-Dichloroethane-D4		105%				
2037-26-5	Toluene-D8		104%				
460-00-4	P-Bromofluorobenzene		98%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/11/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1564-5
Client ID: KWTB-052504
SDG: CTO301318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	2	1.0	2	2	0.2
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-69-4	Trichlorofluoromethane	U	2	1.0	2	2	0.2
60-29-7	Diethyl Ether	U	1	1.0	1	1	0.1
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
76-13-1	Freon-113	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
67-64-1	Acetone	J	2	1.0	5	5	1
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.8
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.2
594-20-7	2,2-Dichloropropane	U	1	1.0	1	1	0.2
74-97-5	Bromochloromethane	U	1	1.0	1	1	0.1
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
563-58-6	1,1-Dichloropropene	U	1	1.0	1	1	0.9
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
74-95-3	Dibromomethane	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	0.8
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
142-28-9	1,3-Dichloropropane	U	1	1.0	1	1	0.2
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.09
591-78-6	2-Hexanone	U	5	1.0	5	5	1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/11/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1564-5
Client ID: KWTB-052504
SDG: CTO301318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
630-20-6	1,1,1,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.1
98-82-8	Isopropylbenzene	U	1	1.0	1	1	0.3
108-86-1	Bromobenzene	U	1	1.0	1	1	0.2
103-65-1	N-Propylbenzene	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-49-8	2-Chlorotoluene	U	1	1.0	1	1	0.2
96-18-4	1,2,3-Trichloropropane	U	1	1.0	1	1	0.1
106-43-4	4-Chlorotoluene	U	1	1.0	1	1	0.2
98-06-6	tert-Butylbenzene	U	1	1.0	1	1	0.3
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.3
99-87-6	P-Isopropyltoluene	U	1	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.2
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
104-51-8	N-Butylbenzene	U	1	1.0	1	1	0.3
135-98-8	sec-Butylbenzene	U	1	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	1	1.0	1	1	0.4
108-70-3	1,3,5-Trichlorobenzene	U	1	1.0	1	1	0.3
87-68-3	Hexachlorobutadiene	U	1	1.0	1	1	0.4
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.2
526-73-8	1,2,3-Trimethylbenzene	U	1	1.0	1	1	0.2
91-20-3	Naphthalene	U	1	1.0	1	1	0.4
87-61-6	1,2,3-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		101%				
17060-07-0	1,2-Dichloroethane-D4		100%				
2037-26-5	Toluene-D8		105%				
460-00-4	P-Bromofluorobenzene		98%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

KWTB-052504

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Matrix: (soil/water) WATER Lab Sample ID: WU1564-5

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: Z1732

Level: (low/med) LOW Date Received: 05/26/04

% Moisture: not dec. _____ Date Analyzed: 06/01/04

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/26/04
Received Date: 05/27/04
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/11/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1571-3
Client ID: KWTB-052604
SDG: CTO301318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
74-87-3	Chloromethane	U	2	1.0	2	2	0.6
75-01-4	Vinyl chloride	U	2	1.0	2	2	0.2
74-83-9	Bromomethane	U	2	1.0	2	2	0.6
75-00-3	Chloroethane	U	2	1.0	2	2	0.2
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
75-25-2	Bromoform	U	1	1.0	1	1	0.1
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
1868-53-7	Dibromofluoromethane		104%				
17060-07-0	1,2-Dichloroethane-D4		104%				
2037-26-5	Toluene-D8		103%				
460-00-4	P-Bromofluorobenzene		99%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/02/04
Analysis Date: 06/19/04
Report Date: 06/24/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-3
Client ID: G01-MW-07-0504
SDG: CTO301318-2
Extracted by: JFC
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG7874
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	10	1.0	10	10	6
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	3
95-57-8	2-Chlorophenol	U	10	1.0	10	10	5
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	3
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	3
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	3
95-48-7	2-Methylphenol	U	10	1.0	10	10	5
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	10	1.0	10	10	2
106-44-5	4-Methylphenol	U	10	1.0	10	10	5
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	2
67-72-1	Hexachloroethane	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	2
78-59-1	Isophorone	U	10	1.0	10	10	2
88-75-5	2-Nitrophenol	U	10	1.0	10	10	5
105-67-9	2,4-Dimethylphenol	U	10	1.0	10	10	8
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	2
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	6
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	3
91-20-3	Naphthalene	U	10	1.0	10	10	2
106-47-8	4-Chloroaniline	U	10	1.0	10	10	4
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	4
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	6
91-57-6	2-Methylnaphthalene	U	10	1.0	10	10	4
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	2
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	7
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	7
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	3
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	3
208-96-8	Acenaphthylene	U	10	1.0	10	10	3
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	3
99-09-2	3-Nitroaniline	U	25	1.0	25	25	3
83-32-9	Acenaphthene	U	10	1.0	10	10	2
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
100-02-7	4-Nitrophenol	U	25	1.0	25	25	5
132-64-9	Dibenzofuran	U	10	1.0	10	10	3
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	4
84-66-2	Diethylphthalate	U	10	1.0	10	10	2
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	3
86-73-7	Fluorene	U	10	1.0	10	10	2
100-01-6	4-Nitroaniline	U	25	1.0	25	25	5
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	10
86-30-6	N-Nitrosodiphenylamine	U	10	1.0	10	10	8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/02/04
Analysis Date: 06/19/04
Report Date: 06/24/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-3
Client ID: G01-MW-07-0504
SDG: CTO301318-2
Extracted by: JFC
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG7874
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	4
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	4
87-86-5	Pentachlorophenol	U	25	1.0	25	25	9
85-01-8	Phenanthrene	U	10	1.0	10	10	3
120-12-7	Anthracene	U	10	1.0	10	10	3
86-74-8	Carbazole	U	10	1.0	10	10	4
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	3
129-00-0	Pyrene	U	10	1.0	10	10	4
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	3
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	4
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	3
218-01-9	Chrysene	U	10	1.0	10	10	3
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	7
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	3
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	2
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	3
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	2
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	2
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	2
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	2
367-12-4	2-Fluorophenol		45%				
13127-88-3	Phenol-D6		36%				
4165-60-0	Nitrobenzene-D5		57%				
321-60-8	2-Fluorobiphenyl		44%				
118-79-6	2,4,6-Tribromophenol		68%				
1718-51-0	Terphenyl-D14		85%				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

G01-MW-07-0504

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Matrix: (soil/water) WATER Lab Sample ID: WU1552-3

Sample wt/vol: 1.040 (g/L) L Lab File ID: U7805

Level: (low/med) LOW Date Received: 05/26/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/02/04

Concentrated Extract Volume: 0.0010 (L) Date Analyzed: 06/19/04

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	6.09	10	J
2.	17233-71-5	HEXATHIEPANE	19.17	4	NJ
3.	10544-50-0	SULFUR, MOL. (S8)	22.58	400	NJ
4.		UNKNOWN PHTHALATE	26.56	4	J
5.		UNKNOWN	32.15	6	J
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
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23.					
24.					
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26.					
27.					
28.					
29.					
30.					

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/02/04
Analysis Date: 06/22/04
Report Date: 06/24/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-5
Client ID: G01-MW-08-0504
SDG: CTO301318-2
Extracted by: JFC
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG7874
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	10	1.0	10	10	6
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	3
95-57-8	2-Chlorophenol	U	10	1.0	10	10	5
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	3
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	3
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	3
95-48-7	2-Methylphenol	U	10	1.0	10	10	5
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	10	1.0	10	10	2
106-44-5	4-Methylphenol	U	10	1.0	10	10	5
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	2
67-72-1	Hexachloroethane	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	2
78-59-1	Isophorone	U	10	1.0	10	10	2
88-75-5	2-Nitrophenol	U	10	1.0	10	10	5
105-67-9	2,4-Dimethylphenol	U	10	1.0	10	10	7
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	2
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	6
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	3
91-20-3	Naphthalene		26	1.0	10	10	2
106-47-8	4-Chloroaniline	U	10	1.0	10	10	4
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	4
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	6
91-57-6	2-Methylnaphthalene		42	1.0	10	10	4
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	2
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	7
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	7
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	3
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	3
208-96-8	Acenaphthylene	U	10	1.0	10	10	3
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	3
99-09-2	3-Nitroaniline	U	25	1.0	25	25	3
83-32-9	Acenaphthene	J	2	1.0	10	10	2
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
100-02-7	4-Nitrophenol	U	25	1.0	25	25	5
132-64-9	Dibenzofuran	U	10	1.0	10	10	3
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	4
84-66-2	Diethylphthalate	U	10	1.0	10	10	2
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	3
86-73-7	Fluorene	J	3	1.0	10	10	2
100-01-6	4-Nitroaniline	U	25	1.0	25	25	5
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	10
86-30-6	N-Nitrosodiphenylamine	U	10	1.0	10	10	8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/02/04
Analysis Date: 06/22/04
Report Date: 06/24/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-5
Client ID: G01-MW-08-0504
SDG: CTO301318-2
Extracted by: JFC
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG7874
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	4
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	4
87-86-5	Pentachlorophenol	U	25	1.0	25	25	9
85-01-8	Phenanthrene	J	4	1.0	10	10	3
120-12-7	Anthracene	U	10	1.0	10	10	3
86-74-8	Carbazole	U	10	1.0	10	10	4
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	3
129-00-0	Pyrene	U	10	1.0	10	10	4
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	3
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	4
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	3
218-01-9	Chrysene	U	10	1.0	10	10	3
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	7
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	3
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	2
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	3
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	2
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	2
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	2
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	2
367-12-4	2-Fluorophenol		48%				
13127-88-3	Phenol-D6		34%				
4165-60-0	Nitrobenzene-D5		82%				
321-60-8	2-Fluorobiphenyl		63%				
118-79-6	2,4,6-Tribromophenol		68%				
1718-51-0	Terphenyl-D14		88%				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

GO1-MW-08-0504

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Matrix: (soil/water) WATER Lab Sample ID: WU1552-5

Sample wt/vol: 1.060 (g/L) L Lab File ID: U7814

Level: (low/med) LOW Date Received: 05/26/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/02/04

Concentrated Extract Volume: 0.0010 (L) Date Analyzed: 06/22/04

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 23

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKANE	5.72	5	J
2.		UNKNOWN	6.11	20	J
3.		UNKNOWN ALKANE	6.53	6	J
4.		UNKNOWN ALKANE	9.21	5	J
5.		UNKNOWN ALKANE	10.04	9	J
6.		UNKNOWN ALKANE	10.13	4	J
7.		UNKNOWN	10.40	6	J
8.		UNKNOWN	10.47	7	J
9.		C10H14 ISOMER	10.65	4	J
10.		UNKNOWN ALKANE	10.76	4	J
11.		C10H12 ISOMER	11.60	7	J
12.		METHYLNAPTHALENE ISOMER	14.03	20	J
13.	92-52-4	BIPHENYL	14.93	4	NJ
14.		ETHYLNAPTHALENE ISOMER	15.14	5	J
15.		DIMETHYLNAPTHALENE ISOMER	15.28	20	J
16.		DIMETHYLNAPTHALENE ISOMER	15.49	30	J
17.		DIMETHYLNAPTHALENE ISOMER	15.75	10	J
18.		DIMETHYLNAPTHALENE ISOMER	15.96	6	J
19.		C14H220 ISOMER	16.55	20	JB
20.		TRIMETHYLNAPTHALENE ISOMER	16.89	4	J
21.		TRIMETHYLNAPTHALENE ISOMER	17.08	7	J
22.		TRIMETHYLNAPTHALENE ISOMER	17.29	6	J
23.	10544-50-0	SULFUR, MOL. (S8)	22.60	40	NJ
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/02/04
Analysis Date: 06/19/04
Report Date: 07/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-7
Client ID: G01-MW-09-0504
SDG: CTO301318-2
Extracted by: JFC
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG7874
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	10	1.0	10	10	6
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	3
95-57-8	2-Chlorophenol	U	10	1.0	10	10	5
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	3
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	3
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	3
95-48-7	2-Methylphenol	U	10	1.0	10	10	5
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	10	1.0	10	10	2
106-44-5	4-Methylphenol	U	10	1.0	10	10	5
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	2
67-72-1	Hexachloroethane	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	2
78-59-1	Isophorone	U	10	1.0	10	10	2
88-75-5	2-Nitrophenol	U	10	1.0	10	10	5
105-67-9	2,4-Dimethylphenol	U	10	1.0	10	10	7
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	2
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	6
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	3
91-20-3	Naphthalene		23	1.0	10	10	2
106-47-8	4-Chloroaniline	U	10	1.0	10	10	4
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	4
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	6
91-57-6	2-Methylnaphthalene		36	1.0	10	10	4
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	2
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	7
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	7
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	3
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	3
208-96-8	Acenaphthylene	U	10	1.0	10	10	3
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	3
99-09-2	3-Nitroaniline	U	25	1.0	25	25	3
83-32-9	Acenaphthene	U	10	1.0	10	10	2
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
100-02-7	4-Nitrophenol	U	25	1.0	25	25	5
132-64-9	Dibenzofuran	U	10	1.0	10	10	3
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	4
84-66-2	Diethylphthalate	U	10	1.0	10	10	2
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	3
86-73-7	Fluorene	J	3	1.0	10	10	2
100-01-6	4-Nitroaniline	U	25	1.0	25	25	5
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	10
86-30-6	N-Nitrosodiphenylamine	U	10	1.0	10	10	8

Revised 7.20.04 JAJ

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/02/04
Analysis Date: 06/19/04
Report Date: 07/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-7
Client ID: G01-MW-09-0504
SDG: CTO301318-2
Extracted by: JFC
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG7874
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	4
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	4
87-86-5	Pentachlorophenol	U	25	1.0	25	25	9
85-01-8	Phenanthrene	J	3	1.0	10	10	3
120-12-7	Anthracene	U	10	1.0	10	10	3
86-74-8	Carbazole	U	10	1.0	10	10	4
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	3
129-00-0	Pyrene	U	10	1.0	10	10	4
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	3
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	4
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	3
218-01-9	Chrysene	U	10	1.0	10	10	3
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	7
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	3
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	2
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	3
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	2
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	2
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	2
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	2
367-12-4	2-Fluorophenol		42%				
13127-88-3	Phenol-D6		29%				
4165-60-0	Nitrobenzene-D5		69%				
321-60-8	2-Fluorobiphenyl		58%				
118-79-6	2,4,6-Tribromophenol		64%				
1718-51-0	Terphenyl-D14		84%				

REVISED 7-20-04 JAI

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

G01-MW-09-0504

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Matrix: (soil/water) WATER Lab Sample ID: WU1552-7

Sample wt/vol: 1.060 (g/L) L Lab File ID: U7806

Level: (low/med) LOW Date Received: 05/26/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/02/04

Concentrated Extract Volume: 0.0010 (L) Date Analyzed: 06/19/04

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 18

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.71	5	J
2.		UNKNOWN	6.09	20	J
3.		UNKNOWN	6.52	5	J
4.		UNKNOWN ALKANE	9.21	6	J
5.		UNKNOWN ALKANE	10.04	9	J
6.		UNKNOWN ALKANE	10.13	4	J
7.		UNKNOWN	10.41	6	J
8.		UNKNOWN	10.47	7	J
9.		C10H14 ISOMER	11.63	6	J
10.		METHYLNAPTHALENE ISOMER	14.03	20	J
11.		DIMETHYLNAPTHALENE ISOMER	15.29	10	J
12.		DIMETHYLNAPTHALENE ISOMER	15.49	20	J
13.		DIMETHYLNAPTHALENE ISOMER	15.75	10	J
14.		DIMETHYLNAPTHALENE ISOMER	15.96	5	J
15.		C14H22O ISOMER	16.56	20	JB
16.		TRIMETHYLNAPTHALENE ISOMER	17.09	7	J
17.		TRIMETHYLNAPTHALENE ISOMER	17.30	6	J
18.	10544-50-0	SULFUR, MOL. (S8)	22.60	40	NJ
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/02/04
Analysis Date: 06/19/04
Report Date: 06/24/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-7
Client ID: G01-MW-09-0504
SDG: CTO301318-2
Extracted by: JFC
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG7874
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	10	1.0	10	10	6
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	3
95-57-8	2-Chlorophenol	U	10	1.0	10	10	5
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	3
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	3
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	3
95-48-7	2-Methylphenol	U	10	1.0	10	10	5
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	10	1.0	10	10	2
106-44-5	4-Methylphenol	U	10	1.0	10	10	5
621-64-7	N-Nitroso-di-n-propylamine	J	4	1.0	10	10	2
67-72-1	Hexachloroethane	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	2
78-59-1	Isophorone	U	10	1.0	10	10	2
88-75-5	2-Nitrophenol	U	10	1.0	10	10	5
105-67-9	2,4-Dimethylphenol	U	10	1.0	10	10	7
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	2
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	6
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	3
91-20-3	Naphthalene		23	1.0	10	10	2
106-47-8	4-Chloroaniline	U	10	1.0	10	10	4
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	4
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	6
91-57-6	2-Methylnaphthalene		36	1.0	10	10	4
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	2
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	7
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	7
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	3
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	3
208-96-8	Acenaphthylene	U	10	1.0	10	10	3
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	3
99-09-2	3-Nitroaniline	U	25	1.0	25	25	3
83-32-9	Acenaphthene	U	10	1.0	10	10	2
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
100-02-7	4-Nitrophenol	U	25	1.0	25	25	5
132-64-9	Dibenzofuran	U	10	1.0	10	10	3
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	4
84-66-2	Diethylphthalate	U	10	1.0	10	10	2
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	3
86-73-7	Fluorene	J	3	1.0	10	10	2
100-01-6	4-Nitroaniline	U	25	1.0	25	25	5
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	10
86-30-6	N-Nitrosodiphenylamine	U	10	1.0	10	10	8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/02/04
Analysis Date: 06/19/04
Report Date: 06/24/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-7
Client ID: G01-MW-09-0504
SDG: CTO301318-2
Extracted by: JFC
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG7874
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	4
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	4
87-86-5	Pentachlorophenol	U	25	1.0	25	25	9
85-01-8	Phenanthrene	J	3	1.0	10	10	3
120-12-7	Anthracene	U	10	1.0	10	10	3
86-74-8	Carbazole	U	10	1.0	10	10	4
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	3
129-00-0	Pyrene	U	10	1.0	10	10	4
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	3
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	4
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	3
218-01-9	Chrysene	U	10	1.0	10	10	3
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	7
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	3
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	2
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	3
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	2
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	2
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	2
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	2
367-12-4	2-Fluorophenol		42%				
13127-88-3	Phenol-D6		29%				
4165-60-0	Nitrobenzene-D5		69%				
321-60-8	2-Fluorobiphenyl		58%				
118-79-6	2,4,6-Tribromophenol		64%				
1718-51-0	Terphenyl-D14		84%				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

G01-MW-09-0504

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Matrix: (soil/water) WATER Lab Sample ID: WU1552-7

Sample wt/vol: 1.060 (g/L) L Lab File ID: U7806

Level: (low/med) LOW Date Received: 05/26/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/02/04

Concentrated Extract Volume: 0.0010 (L) Date Analyzed: 06/19/04

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 17

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.71	5	J
2.		UNKNOWN	6.09	20	J
3.		UNKNOWN	6.52	5	J
4.		UNKNOWN ALKANE	9.21	6	J
5.		UNKNOWN ALKANE	10.04	9	J
6.		UNKNOWN ALKANE	10.13	4	J
7.		UNKNOWN	10.47	7	J
8.		C10H14 ISOMER	11.63	6	J
9.		METHYLNAPTHALENE ISOMER	14.03	20	J
10.		DIMETHYLNAPTHALENE ISOMER	15.29	10	J
11.		DIMETHYLNAPTHALENE ISOMER	15.49	20	J
12.		DIMETHYLNAPTHALENE ISOMER	15.75	10	J
13.		DIMETHYLNAPTHALENE ISOMER	15.96	5	J
14.		C14H22O ISOMER	16.56	20	JB
15.		TRIMETHYLNAPTHALENE ISOMER	17.09	7	J
16.		TRIMETHYLNAPTHALENE ISOMER	17.30	6	J
17.	10544-50-0	SULFUR, MOL. (S8)	22.60	40	NJ
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/02/04
Analysis Date: 06/19/04
Report Date: 06/24/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-9
Client ID: KW-DUP-02-0504
SDG: CTO301318-2
Extracted by: JFC
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG7874
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	10	1.0	10	10	6
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	3
95-57-8	2-Chlorophenol	U	10	1.0	10	10	5
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	3
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	3
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	3
95-48-7	2-Methylphenol	U	10	1.0	10	10	5
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	10	1.0	10	10	2
106-44-5	4-Methylphenol	U	10	1.0	10	10	5
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	2
67-72-1	Hexachloroethane	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	2
78-59-1	Isophorone	U	10	1.0	10	10	2
88-75-5	2-Nitrophenol	U	10	1.0	10	10	5
105-67-9	2,4-Dimethylphenol	U	10	1.0	10	10	7
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	2
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	6
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	3
91-20-3	Naphthalene		15	1.0	10	10	2
106-47-8	4-Chloroaniline	U	10	1.0	10	10	4
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	4
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	6
91-57-6	2-Methylnaphthalene		10	1.0	10	10	4
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	2
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	7
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	7
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	3
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	3
208-96-8	Acenaphthylene	U	10	1.0	10	10	3
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	3
99-09-2	3-Nitroaniline	U	25	1.0	25	25	3
83-32-9	Acenaphthene	U	10	1.0	10	10	2
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
100-02-7	4-Nitrophenol	U	25	1.0	25	25	5
132-64-9	Dibenzofuran	U	10	1.0	10	10	3
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	4
84-66-2	Diethylphthalate	U	10	1.0	10	10	2
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	3
86-73-7	Fluorene	U	10	1.0	10	10	2
100-01-6	4-Nitroaniline	U	25	1.0	25	25	5
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	10
86-30-6	N-Nitrosodiphenylamine	U	10	1.0	10	10	8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/02/04
Analysis Date: 06/19/04
Report Date: 06/24/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-9
Client ID: KW-DUP-02-0504
SDG: CTO301318-2
Extracted by: JFC
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG7874
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	4
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	4
87-86-5	Pentachlorophenol	U	25	1.0	25	25	9
85-01-8	Phenanthrene	U	10	1.0	10	10	3
120-12-7	Anthracene	U	10	1.0	10	10	3
86-74-8	Carbazole	U	10	1.0	10	10	4
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	3
129-00-0	Pyrene	U	10	1.0	10	10	4
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	3
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	4
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	3
218-01-9	Chrysene	U	10	1.0	10	10	3
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	7
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	3
205-99-2	Benzo(b)fluoranthene	J	6	1.0	10	10	2
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	3
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	2
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	2
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	2
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	2
367-12-4	2-Fluorophenol		63%				
13127-88-3	Phenol-D6		48%				
4165-60-0	Nitrobenzene-D5		84%				
321-60-8	2-Fluorobiphenyl		73%				
118-79-6	2,4,6-Tribromophenol		82%				
1718-51-0	Terphenyl-D14		105%				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

KW-DUP-02-0504

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Matrix: (soil/water) WATER Lab Sample ID: WU1552-9

Sample wt/vol: 1.060 (g/L) L Lab File ID: U7807

Level: (low/med) LOW Date Received: 05/26/04

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/02/04

Concentrated Extract Volume: 0.0010 (L) Date Analyzed: 06/19/04

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	6.09	20	J
2.		UNKNOWN ALKANE	10.04	4	J
3.		UNKNOWN	10.69	5	J
4.		C10H14 ISOMER	11.63	4	J
5.		C11H14 ISOMER	12.76	4	J
6.		UNKNOWN CYCLOALKANE	12.92	4	J
7.		UNKNOWN	13.24	5	J
8.		UNKNOWN	13.32	5	J
9.		UNKNOWN ALKANE	13.45	4	J
10.		UNKNOWN	13.94	5	J
11.		METHYLNAPTHALENE ISOMER	14.03	20	J
12.		UNKNOWN	14.56	7	J
13.		UNKNOWN	15.30	9	J
14.		DIMETHYLNAPTHALENE ISOMER	15.54	10	J
15.		UNKNOWN	15.84	10	J
16.		C14H22O ISOMER	16.57	6	JB
17.		UNKNOWN	16.84	10	J
18.		UNKNOWN	16.92	10	J
19.		UNKNOWN	17.54	10	J
20.	10544-50-0	SULFUR, MOL. (S8)	22.64	40	NJ
21.		UNKNOWN ALKANE	25.32	10	J
22.		UNKNOWN ALKANE	26.88	5	J
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/26/04
Received Date: 05/27/04
Extraction Date: 06/03/04
Analysis Date: 06/04/04
Report Date: 06/22/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1571-1
Client ID: G01-MW-01-0504
SDG: CTO301318-2
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7969
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		83%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/03/04
Analysis Date: 06/03/04
Report Date: 06/22/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-1RE
Client ID: G01-MW-01A-0504
SDG: CTO301318-2
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7969
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		66%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/02/04
Analysis Date: 06/03/04
Report Date: 06/22/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-2
Client ID: G01-MW-07-0504
SDG: CTO301318-2
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7920
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		71%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/02/04
Analysis Date: 06/03/04
Report Date: 06/22/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-4
Client ID: G01-MW-08-0504
SDG: CTO301318-2
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7920
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/02/04
Analysis Date: 06/03/04
Report Date: 06/22/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-6
Client ID: G01-MW-09-0504
SDG: CTO301318-2
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7920
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		75%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/03/04
Analysis Date: 06/04/04
Report Date: 06/22/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-8
Client ID: KW-DUP-02-0504
SDG: CTO301318-2
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7969
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		75%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/26/04
Received Date: 05/27/04
Extraction Date: 06/03/04
Analysis Date: 06/04/04
Report Date: 06/22/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1571-2
Client ID: KW-RINS-01-0504
SDG: CTO301318-2
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7969
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		92%				

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-01-0504

ID#: 0405498-06A

MODIFIED METHOD RSK-175 GC/FID

File Name:	7060119	Date of Collection:	5/26/04
Dil. Factor:	1.00	Date of Analysis:	6/1/04 01:42 PM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	0.40

Container Type: VOA Vial-40 mL

0024

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-01A-0504

ID#: 0405498-01A

MODIFIED METHOD RSK-175 GC/FID

File Name:	7060113	Date of Collection:	5/25/04
Dil. Factor:	1.00	Date of Analysis:	6/1/04 11:34 AM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	0.19

Container Type: VOA Vial-40 mL

0006

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-07-0504

ID#: 0405498-02A

MODIFIED METHOD RSK-175 GC/FID

File Name:	7060114	Date of Collection:	5/25/04
Dil. Factor:	1.00	Date of Analysis:	6/4/04 11:55 AM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	1.0

Container Type: VOA Vial-40 mL

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-08-0504

ID#: 0405498-03A

MODIFIED METHOD RSK-175 GC/FID

File Name:	7060115	Date of Collection:	5/25/04
Dil. Factor:	1.00	Date of Analysis:	6/1/04 12:16 PM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	6.1

Container Type: VOA Vial-40 mL

0012

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-08-0504 Duplicate

ID#: 0405498-03AA

MODIFIED METHOD RSK-175 GC/FID

File Name:	7060116	Date of Collection:	5/25/04
Dil. Factor:	1.00	Date of Analysis:	6/1/04 12:38 PM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	6.2

Container Type: VOA Vial-40 mL

0015

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-09-0504

ID#: 0405498-04A

MODIFIED METHOD RSK-175 GC/FID

File Name:	7060117	Date of Collection:	5/25/04
Dil. Factor:	1.00	Date of Analysis:	6/1/04 12:59 PM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	2.6

Container Type: VOA Vial-40 mL

0018

AIR TOXICS LTD.

SAMPLE NAME: KW-DUP-02-0504

ID#: 0405498-05A

MODIFIED METHOD RSK-175 GC/FID

File Name: 7060r18	Date of Collection: 5/25/04
Dil. Factor: 1.00	Date of Analysis: 6/1/04 01:20 PM

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	0.84

Container Type: VOA Vial-40 mL

0021

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/26/04
Received Date: 05/27/04
Extraction Date: 06/02/04
Analysis Date: 06/22/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1571-1
Client ID: G01-MW-01-0504
SDG: CTO301318-2
Extracted by: NB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7938
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.047
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.047
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.075
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.075
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.075
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.085
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.066
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.085
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.075
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.085
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.094
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.075
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
7297-45-2	2-Methylnaphthalene-d10		57%				
81103-79-9	Fluorene-d10		72%				
1718-52-1	Pyrene-d10		99%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/02/04
Analysis Date: 06/22/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-1
Client ID: G01-MW-01A-0504
SDG: CTO301318-2
Extracted by: NB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7938
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.047
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.047
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.075
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.075
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.075
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.085
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.066
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.085
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.075
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.085
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.094
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.075
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
7297-45-2	2-Methylnaphthalene-d10		38%				
81103-79-9	Fluorene-d10		54%				
1718-52-1	Pyrene-d10		92%				

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/02/04
Analysis Date: 06/23/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-2
Client ID: G01-MW-07-0504
SDG: CTO301318-2
Extracted by: NB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7938
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	J	0.14	1.0	0.20	0.20	0.048
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.077
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.048
83-32-9	Acenaphthene	J	0.16	1.0	0.20	0.20	0.077
86-73-7	Fluorene		0.29	1.0	0.20	0.20	0.058
85-01-8	Phenanthrene		0.62	1.0	0.20	0.20	0.077
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.077
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.086
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.067
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.086
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.077
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.086
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.096
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.077
90-12-0	1-Methylnaphthalene		1.6	1.0	0.20	0.20	0.077
7297-45-2	2-Methylnaphthalene-d10		51%				
81103-79-9	Fluorene-d10		61%				
1718-52-1	Pyrene-d10		114%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/02/04
Analysis Date: 06/23/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-4
Client ID: G01-MW-08-0504
SDG: CTO301318-2
Extracted by: NB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7938
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	E	16	1.0	0.20	0.20	0.047
91-57-6	2-Methylnaphthalene	E	34	1.0	0.20	0.20	0.075
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.047
83-32-9	Acenaphthene		1.9	1.0	0.20	0.20	0.075
86-73-7	Fluorene		2.6	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	E	2.9	1.0	0.20	0.20	0.075
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.075
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.085
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.066
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.085
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.075
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.085
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.094
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.075
90-12-0	1-Methylnaphthalene	E	25	1.0	0.20	0.20	0.075
7297-45-2	2-Methylnaphthalene-d10		62%				
81103-79-9	Fluorene-d10		61%				
1718-52-1	Pyrene-d10		82%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/02/04
Analysis Date: 06/25/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-4DL
Client ID: G01-MW-08-0504
SDG: CTO301318-2
Extracted by: NB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7938
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		21	20	0.20	3.8	0.94
91-57-6	2-Methylnaphthalene		47	20	0.20	3.8	1.5
208-96-8	Acenaphthylene	U	3.8	20	0.20	3.8	0.94
83-32-9	Acenaphthene	J	2.1	20	0.20	3.8	1.5
86-73-7	Fluorene	J	3.3	20	0.20	3.8	1.1
85-01-8	Phenanthrene	J	3.3	20	0.20	3.8	1.5
120-12-7	Anthracene	U	3.8	20	0.20	3.8	1.5
206-44-0	Fluoranthene	U	3.8	20	0.20	3.8	2.1
129-00-0	Pyrene	U	3.8	20	0.20	3.8	1.7
56-55-3	Benzo(a)anthracene	U	3.8	20	0.20	3.8	2.3
218-01-9	Chrysene	U	3.8	20	0.20	3.8	1.3
205-99-2	Benzo(b)fluoranthene	U	3.8	20	0.20	3.8	1.7
207-08-9	Benzo(k)fluoranthene	U	3.8	20	0.20	3.8	1.5
50-32-8	Benzo(a)pyrene	U	3.8	20	0.20	3.8	1.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	3.8	20	0.20	3.8	1.9
53-70-3	Dibenzo(a,h)anthracene	U	3.8	20	0.20	3.8	2.8
191-24-2	Benzo(g,h,i)perylene	U	3.8	20	0.20	3.8	1.5
90-12-0	1-Methylnaphthalene		34	20	0.20	3.8	1.5
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/02/04
Analysis Date: 06/23/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-6
Client ID: G01-MW-09-0504
SDG: CTO301318-2
Extracted by: NB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7938
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	E	10	1.0	0.20	0.20	0.047
91-57-6	2-Methylnaphthalene	E	11	1.0	0.20	0.20	0.075
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.047
83-32-9	Acenaphthene		1.3	1.0	0.20	0.20	0.075
86-73-7	Fluorene		1.1	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene		1.2	1.0	0.20	0.20	0.075
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.075
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.085
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.066
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.085
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.075
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.085
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.094
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.075
90-12-0	1-Methylnaphthalene	E	11	1.0	0.20	0.20	0.075
7297-45-2	2-Methylnaphthalene-d10		87%				
81103-79-9	Fluorene-d10		80%				
1718-52-1	Pyrene-d10		125%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: 2003(MATERIAL 3)
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/02/04
Analysis Date: 06/25/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-6DL
Client ID: G01-MW-09-0504
SDG: CTO301318-2
Extracted by: NB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7938
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene		13	5.0	0.20	0.94	0.24
91-57-6	2-Methylnaphthalene		13	5.0	0.20	0.94	0.38
208-96-8	Acenaphthylene	U	0.94	5.0	0.20	0.94	0.24
83-32-9	Acenaphthene		1.4	5.0	0.20	0.94	0.38
86-73-7	Fluorene		1.3	5.0	0.20	0.94	0.28
85-01-8	Phenanthrene		1.3	5.0	0.20	0.94	0.38
120-12-7	Anthracene	U	0.94	5.0	0.20	0.94	0.38
206-44-0	Fluoranthene	U	0.94	5.0	0.20	0.94	0.52
129-00-0	Pyrene	U	0.94	5.0	0.20	0.94	0.42
56-55-3	Benzo(a)anthracene	U	0.94	5.0	0.20	0.94	0.57
218-01-9	Chrysene	U	0.94	5.0	0.20	0.94	0.33
205-99-2	Benzo(b)fluoranthene	U	0.94	5.0	0.20	0.94	0.42
207-08-9	Benzo(k)fluoranthene	U	0.94	5.0	0.20	0.94	0.38
50-32-8	Benzo(a)pyrene	U	0.94	5.0	0.20	0.94	0.42
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.94	5.0	0.20	0.94	0.47
53-70-3	Dibenzo(a,h)anthracene	U	0.94	5.0	0.20	0.94	0.71
191-24-2	Benzo(g,h,i)perylene	U	0.94	5.0	0.20	0.94	0.38
90-12-0	1-Methylnaphthalene		14	5.0	0.20	0.94	0.38
7297-45-2	2-Methylnaphthalene-d10		106%				
81103-79-9	Fluorene-d10		124%				
1718-52-1	Pyrene-d10		110%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 06/02/04
Analysis Date: 06/23/04
Report Date: 06/28/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-8
Client ID: KW-DUP-02-0504
SDG: CTO301318-2
Extracted by: NB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7938
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	J	0.14	1.0	0.20	0.20	0.047
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.047
83-32-9	Acenaphthene	J	0.17	1.0	0.20	0.20	0.075
86-73-7	Fluorene		0.29	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene		0.52	1.0	0.20	0.20	0.075
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.075
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.085
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.066
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.085
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.075
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.085
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.094
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.075
90-12-0	1-Methylnaphthalene		1.7	1.0	0.20	0.20	0.075
7297-45-2	2-Methylnaphthalene-d10		59%				
81103-79-9	Fluorene-d10		64%				
1718-52-1	Pyrene-d10		90%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/26/04
Received Date: 05/27/04
Extraction Date: 06/02/04
Analysis Date: 06/22/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1571-2
Client ID: KW-RINS-01-0504
SDG: CTO301318-2
Extracted by: NB
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7938
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	J	0.12	1.0	0.20	0.20	0.047
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.047
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.075
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.057
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.075
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.075
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.10
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.085
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.11
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.066
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.085
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.075
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.085
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.094
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.14
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.075
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.075
7297-45-2	2-Methylnaphthalene-d10		59%				
81103-79-9	Fluorene-d10		71%				
1718-52-1	Pyrene-d10		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 05/28/04
Analysis Date: 06/22/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-1
Client ID: G01-MW-01A-0504
SDG: CTO301318-2
Extracted by: JP
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7859
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		60%				
	O-Terphenyl		* 75%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/26/04
Received Date: 05/27/04
Extraction Date: 05/28/04
Analysis Date: 06/23/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1571-1
Client ID: G01-MW-01-0504
SDG: CTO301318-2
Extracted by: JP
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7859
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	270
	n-Triacontane-D62		46%				
	O-Terphenyl		* 75%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 05/28/04
Analysis Date: 06/22/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-2
Client ID: G01-MW-07-0504
SDG: CTO301318-2
Extracted by: JP
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7859
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	J	450	1.0	500	500	270
	n-Triacontane-D62		60%				
	O-Terphenyl		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 05/28/04
Analysis Date: 06/22/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-4
Client ID: G01-MW-08-0504
SDG: CTO301318-2
Extracted by: JP
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7859
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		1300	1.0	500	500	270
	n-Triacontane-D62		60%				
	O-Terphenyl		82%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 05/28/04
Analysis Date: 06/22/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-6
Client ID: G01-MW-09-0504
SDG: CTO301318-2
Extracted by: JP
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7859
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		2700	1.0	500	500	270
	n-Triacontane-D62		61%				
	O-Terphenyl		* 81%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/25/04
Received Date: 05/26/04
Extraction Date: 05/28/04
Analysis Date: 06/23/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1552-8
Client ID: KW-DUP-02-0504
SDG: CTO301318-2
Extracted by: JP
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7859
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics		530	1.0	500	500	270
	n-Triacontane-D62		58%				
	O-Terphenyl		82%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date: 05/26/04
Received Date: 05/27/04
Extraction Date: 05/28/04
Analysis Date: 06/23/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WU1571-2
Client ID: KW-RINS-01-0504
SDG: CTO301318-2
Extracted by: JP
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7859
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	280
	n-Triacontane-D62		66%				
	O-Terphenyl		88%				

APPENDIX C

SUPPORT DOCUMENTATION

HOLDTIME

SDG 3182

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	%	KW-RINS-01-0504	WU1571-2	NM	05/26/2004	06/01/2004	06/01/2004	6	0	6
OV	%	G01-MW-01-0504	WU1571-1	NM	05/26/2004	06/01/2004	06/01/2004	6	0	6
OV	%	G01-MW-01A-0504	WU1552-1	NM	05/25/2004	06/01/2004	06/01/2004	7	0	7
OV	%	G01-MW-07-0504	WU1564-1	NM	05/25/2004	06/01/2004	06/01/2004	7	0	7
OV	%	G01-MW-08-0504	WU1564-2	NM	05/25/2004	06/01/2004	06/01/2004	7	0	7
OV	%	KW-DUP-02-0504	WU1564-4	NM	05/25/2004	06/01/2004	06/01/2004	7	0	7
OV	%	KWTB-052504	WU1564-5	NM	05/25/2004	06/01/2004	06/01/2004	7	0	7
OV	%	KWTB-052604	WU1571-3	NM	05/26/2004	06/01/2004	06/01/2004	6	0	6
OV	%	G01-MW-09-0504	WU1564-3	NM	05/25/2004	06/01/2004	06/01/2004	7	0	7
OV	UG/L	KW-DUP-02-0504	WU1564-4	NM	05/25/2004	06/01/2004	06/01/2004	7	0	7
OV	UG/L	KW-RINS-01-0504	WU1571-2	NM	05/26/2004	06/01/2004	06/01/2004	6	0	6
OV	UG/L	G01-MW-01-0504	WU1571-1	NM	05/26/2004	06/01/2004	06/01/2004	6	0	6
OV	UG/L	G01-MW-09-0504	WU1564-3	NM	05/25/2004	06/01/2004	06/01/2004	7	0	7
OV	UG/L	G01-MW-08-0504	WU1564-2	NM	05/25/2004	06/01/2004	06/01/2004	7	0	7
OV	UG/L	KWTB-052604	WU1571-3	NM	05/26/2004	06/01/2004	06/01/2004	6	0	6

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	UG/L	G01-MW-07-0504	WU1564-1	NM	05/25/2004	06/01/2004	06/01/2004	7	0	7
OV	UG/L	G01-MW-01A-0504	WU1552-1	NM	05/25/2004	06/01/2004	06/01/2004	7	0	7
OV	UG/L	KWTB-052504	WU1564-5	NM	05/25/2004	06/01/2004	06/01/2004	7	0	7
METH	UG/ML	G01-MW-01-0504	0405498-06A	NM	05/26/2004	06/01/2004	06/01/2004	6	0	6
METH	UG/ML	KW-DUP-02-0504	0405498-05A	NM	05/25/2004	06/01/2004	06/01/2004	7	0	7
METH	UG/ML	G01-MW-09-0504	0405498-04A	NM	05/25/2004	06/01/2004	06/01/2004	7	0	7
METH	UG/ML	G01-MW-08-0504	0405498-03A	NM	05/25/2004	06/01/2004	06/01/2004	7	0	7
METH	UG/ML	G01-MW-07-0504	0405498-02A	NM	05/25/2004	06/01/2004	06/01/2004	7	0	7
METH	UG/ML	G01-MW-01A-0504	0405498-01A	NM	05/25/2004	06/01/2004	06/01/2004	7	0	7

HOLDTIME

SDG 3182

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	G01-MW-01A-0504	WU1552-001	NM	05/25/2004	06/14/2004	06/16/2004	20	2	22
M	UG/L	G01-MW-07-0504	WU1552-002	NM	05/25/2004	06/14/2004	06/16/2004	20	2	22
M	UG/L	G01-MW-08-0504	WU1552-004	NM	05/25/2004	06/14/2004	06/16/2004	20	2	22
M	UG/L	G01-MW-09-0504	WU1552-006	NM	05/25/2004	06/14/2004	06/16/2004	20	2	22
M	UG/L	KW-DUP-02-0504	WU1552-008	NM	05/25/2004	06/14/2004	06/16/2004	20	2	22
M	UG/L	KW-RINS-01-0504	WU1571-002	NM	05/26/2004	06/14/2004	06/16/2004	19	2	21
M	UG/L	G01-MW-01-0504	WU1571-001	NM	05/26/2004	06/14/2004	06/16/2004	19	2	21
NTA	MG/L	G01-MW-01-0504	WU1571-1	NM	05/26/2004	05/27/2004	05/27/2004	1	0	1
NTA	MG/L	KW-DUP-02-0504	WU1552-8	NM	05/25/2004	05/26/2004	05/26/2004	1	0	1
NTA	MG/L	G01-MW-09-0504	WU1552-6	NM	05/25/2004	05/26/2004	05/26/2004	1	0	1
NTA	MG/L	G01-MW-08-0504	WU1552-4	NM	05/25/2004	05/26/2004	05/26/2004	1	0	1
NTA	MG/L	G01-MW-01A-0504	WU1552-1	NM	05/25/2004	05/26/2004	05/26/2004	1	0	1
NTA	MG/L	G01-MW-07-0504	WU1552-2	NM	05/25/2004	05/26/2004	05/26/2004	1	0	1
SO4	MG/L	G01-MW-07-0504	WU1552-2	NM	05/25/2004	06/17/2004	06/17/2004	23	0	23
SO4	MG/L	G01-MW-01A-0504	WU1552-1	NM	05/25/2004	06/17/2004	06/17/2004	23	0	23

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SO4	MG/L	G01-MW-01-0504	WU1571-1	NM	05/26/2004	06/17/2004	06/17/2004	22	0	22
SO4	MG/L	G01-MW-09-0504	WU1552-6	NM	05/25/2004	06/17/2004	06/17/2004	23	0	23
SO4	MG/L	KW-DUP-02-0504	WU1552-8	NM	05/25/2004	06/17/2004	06/17/2004	23	0	23
SO4	MG/L	G01-MW-08-0504	WU1552-4	NM	05/25/2004	06/17/2004	06/17/2004	23	0	23
OS	%	G01-MW-09-0504	WU1552-7	NM	05/25/2004	06/02/2004	06/19/2004	8	17	25
OS	%	G01-MW-01-0504	WU1571-1	NM	05/26/2004	06/02/2004	06/22/2004	7	20	27
OS	%	KW-RINS-01-0504	WU1571-2	NM	05/26/2004	06/02/2004	06/22/2004	7	20	27
OS	%	G01-MW-01A-0504	WU1552-1	NM	05/25/2004	06/02/2004	06/22/2004	8	20	28
OS	%	KW-DUP-02-0504	WU1552-8	NM	05/25/2004	06/02/2004	06/23/2004	8	21	29
OS	%	G01-MW-09-0504	WU1552-6	NM	05/25/2004	06/02/2004	06/23/2004	8	21	29
OS	%	G01-MW-08-0504	WU1552-5	NM	05/25/2004	06/02/2004	06/22/2004	8	20	28
OS	%	G01-MW-08-0504	WU1552-4	NM	05/25/2004	06/02/2004	06/23/2004	8	21	29
OS	%	G01-MW-07-0504	WU1552-3	NM	05/25/2004	06/02/2004	06/19/2004	8	17	25
OS	%	G01-MW-07-0504	WU1552-2	NM	05/25/2004	06/02/2004	06/23/2004	8	21	29
OS	%	KW-DUP-02-0504	WU1552-9	NM	05/25/2004	06/02/2004	06/19/2004	8	17	25
OS	UG/L	G01-MW-09-0504	WU1552-6	NM	05/25/2004	06/02/2004	06/23/2004	8	21	29
OS	UG/L	G01-MW-01-0504	WU1571-1	NM	05/26/2004	06/02/2004	06/22/2004	7	20	27
OS	UG/L	G01-MW-01A-0504	WU1552-1	NM	05/25/2004	06/02/2004	06/22/2004	8	20	28

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	UG/L	G01-MW-07-0504	WU1552-2	NM	05/25/2004	06/02/2004	06/23/2004	8	21	29
OS	UG/L	G01-MW-07-0504	WU1552-3	NM	05/25/2004	06/02/2004	06/19/2004	8	17	25
OS	UG/L	G01-MW-08-0504	WU1552-4	NM	05/25/2004	06/02/2004	06/23/2004	8	21	29
OS	UG/L	KW-RINS-01-0504	WU1571-2	NM	05/26/2004	06/02/2004	06/22/2004	7	20	27
OS	UG/L	G01-MW-08-0504	WU1552-5	NM	05/25/2004	06/02/2004	06/22/2004	8	20	28
OS	UG/L	KW-DUP-02-0504	WU1552-8	NM	05/25/2004	06/02/2004	06/23/2004	8	21	29
OS	UG/L	KW-DUP-02-0504	WU1552-9	NM	05/25/2004	06/02/2004	06/19/2004	8	17	25
OS	UG/L	G01-MW-09-0504	WU1552-7	NM	05/25/2004	06/02/2004	06/19/2004	8	17	25
OV	%	G01-MW-01-0504	WU1571-1	NM	05/26/2004	06/03/2004	06/04/2004	8	1	9
OV	%	G01-MW-01A-0504	WU1552-1RE	NM	05/25/2004	06/03/2004	06/03/2004	9	0	9
OV	%	G01-MW-07-0504	WU1552-2	NM	05/25/2004	06/02/2004	06/03/2004	8	1	9
OV	%	G01-MW-08-0504	WU1552-4	NM	05/25/2004	06/02/2004	06/03/2004	8	1	9
OV	%	G01-MW-09-0504	WU1552-6	NM	05/25/2004	06/02/2004	06/03/2004	8	1	9
OV	%	KW-DUP-02-0504	WU1552-8	NM	05/25/2004	06/03/2004	06/04/2004	9	1	10
OV	%	KW-RINS-01-0504	WU1571-2	NM	05/26/2004	06/03/2004	06/04/2004	8	1	9
OV	UG/L	G01-MW-09-0504	WU1552-6	NM	05/25/2004	06/02/2004	06/03/2004	8	1	9
OV	UG/L	KW-DUP-02-0504	WU1552-8	NM	05/25/2004	06/03/2004	06/04/2004	9	1	10
OV	UG/L	G01-MW-08-0504	WU1552-4	NM	05/25/2004	06/02/2004	06/03/2004	8	1	9

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	UG/L	G01-MW-01A-0504	WU1552-1RE	NM	05/25/2004	06/03/2004	06/03/2004	9	0	9
OV	UG/L	G01-MW-01-0504	WU1571-1	NM	05/26/2004	06/03/2004	06/04/2004	8	1	9
OV	UG/L	KW-RINS-01-0504	WU1571-2	NM	05/26/2004	06/03/2004	06/04/2004	8	1	9
OV	UG/L	G01-MW-07-0504	WU1552-2	NM	05/25/2004	06/02/2004	06/03/2004	8	1	9
TPH	%	G01-MW-09-0504	WU1552-6	NM	05/25/2004	05/28/2004	06/22/2004	3	25	28
TPH	%	KW-DUP-02-0504	WU1552-8	NM	05/25/2004	05/28/2004	06/23/2004	3	26	29
TPH	%	G01-MW-08-0504	WU1552-4	NM	05/25/2004	05/28/2004	06/22/2004	3	25	28
TPH	%	G01-MW-07-0504	WU1552-2	NM	05/25/2004	05/28/2004	06/22/2004	3	25	28
TPH	%	G01-MW-01A-0504	WU1552-1	NM	05/25/2004	05/28/2004	06/22/2004	3	25	28
TPH	%	G01-MW-01-0504	WU1571-1	NM	05/26/2004	05/28/2004	06/23/2004	2	26	28
TPH	%	KW-RINS-01-0504	WU1571-2	NM	05/26/2004	05/28/2004	06/23/2004	2	26	28
TPH	UG/L	KW-RINS-01-0504	WU1571-2	NM	05/26/2004	05/28/2004	06/23/2004	2	26	28
TPH	UG/L	G01-MW-01-0504	WU1571-1	NM	05/26/2004	05/28/2004	06/23/2004	2	26	28
TPH	UG/L	G01-MW-01A-0504	WU1552-1	NM	05/25/2004	05/28/2004	06/22/2004	3	25	28
TPH	UG/L	G01-MW-07-0504	WU1552-2	NM	05/25/2004	05/28/2004	06/22/2004	3	25	28
TPH	UG/L	G01-MW-08-0504	WU1552-4	NM	05/25/2004	05/28/2004	06/22/2004	3	25	28
TPH	UG/L	G01-MW-09-0504	WU1552-6	NM	05/25/2004	05/28/2004	06/22/2004	3	25	28
TPH	UG/L	KW-DUP-02-0504	WU1552-8	NM	05/25/2004	05/28/2004	06/23/2004	3	26	29

FIELD DUPLICATE PRECISION

ANALYTE	G01-MW-07-0504	QUAL	KW-DUP-02-0504	QUAL	RPD	DIFFERENCE
Carbon Disulfide	2		0.8	J	85.71	1.2
Acetone	3	J	2	J	40.00	1
trans-1,2-Dichloroethene	0.3	J	1	U	107.69	0.7
1,1-Dichloroethane	1		0.6	J	50.00	0.4
cis-1,2-Dichloroethene	2		0.8	J	85.71	1.2
1,2-Dichloroethene (total)	2	J	0.8	J	85.71	1.2
Benzene	0.1	J	1	U	163.64	0.9
Trichloroethene	0.3	J	1	U	107.69	0.7
Naphthalene	10	U	15		40.00	5
2-Methylnaphthalene	10	U	10		0.00	0
Acenaphthene	0.16	J	0.17	J	6.06	0.01
Fluorene	0.29		0.29		0.00	0
Phenanthrene	0.62		0.52		17.54	0.1
1-Methylnaphthalene	1.6		1.7		6.06	0.1

Katahdin
ANALYTICAL SERVICES

Cert. No. E87604

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NAS KEY WEST; SDG: CTO301/318-2
WU1552, WU1564, WU1571
TASK ORDER MANAGER: EMILY MCREE

Sample Receipt

The following samples were received on May 26 and 27, 2004 and were logged in under Katahdin Analytical Services work order number WU1552, WU1564, and WU1571 for a hardcopy due date of June 22, 2004.

KATAHDIN Sample No.	TTNUS Sample Identification
WU1552-1	G01-MW-01A-0504
WU1552-2	G01-MW-07-0504
WU1552-3	G01-MW-07-0504
WU1552-4	G01-MW-08-0504
WU1552-5	G01-MW-08-0504
WU1552-6	G01-MW-09-0504
WU1552-7	G01-MW-09-0504
WU1552-8	KW-DUP-02-0504
WU1552-9	KW-DUP-02-0504
WU1564-1	G01-MW-07-0504
WU1564-2	G01-MW-08-0504
WU1564-3	G01-MW-09-0504
WU1564-4	KW-DUP-02-0504
WU1564-5	KWTB-052504
WU1571-1	G01-MW-01-0504
WU1571-2	KW-RINS-01-0504
WU1571-3	KWTB-052604

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Organics Laboratory

The samples of SDG CTO301/318-2 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, Office of Solid Waste and Emergency Response, U.S. EPA, and/or Method for Determination of Petroleum Range Organics (Method #FL-PRO), Florida Department of Environmental Protection, November 1, 1995, for the specific methods listed below or on the Report of Analysis. Sample WU1571-1 was used for a matrix spike (MS) and matrix spike duplicate (MSD) sample, as per client's request. Some manual integrations may have been performed due to split peaks and/or corrected baselines. All have been flagged with a "M" (software-generated) on the pertinent quantitation report.

8260B Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The acceptance limits for the MS/MSD are for a short list of the spiked compounds. Katahdin standard operating procedure is not to take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory contaminants acetone and methylene chloride) in the LCS are outside of the QC limits.

The MSD (WG7892-4) was analyzed 19 minutes out of the 12 hour analytical clock. The client was notified and informed the laboratory to report the analysis.

504 Analysis

There were no protocol deviations or observations noted by the organic laboratory staff for this analysis.

8100M-FLPRO Analysis

The method blank WG7859-1, the LCS WG7859-2, the MS WG7859-3, the MSD WG7859-4 and samples WU1552-1, 6 and WU1571-1 had low recoveries for the surrogate o-terphenyl, which were outside of the method acceptance limits. Since the recoveries for the second surrogate n-triacontane-D_{62} were within the method acceptance limits, the samples were not reanalyzed.

The calibration verification standards (CV) (files CUF2140 and CUF2154) had low responses for one or more hydrocarbons, which resulted in %D's that were greater than 20%. Since the method requirement applies to only the PRO range responses, which were acceptable, the associated samples were not reanalyzed.

8270C Scan Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The acceptance limits for the MS/MSD are for a short list of the spiked compounds. Katahdin standard operating procedure is not to take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory phthalate ester contaminants) in the LCS are outside of the QC limits.

The laboratory control sample duplicate (LCSD) WG7874-3RA had a high recovery for one surrogate, which was outside the laboratory established acceptance limits. Since the LCSD had acceptable spiked target analyte recoveries, the sample was not reanalyzed.

The calibration verification standard (CV) (file U7809) had a high response for the calibration check compound (CCC) pentachlorophenol, which resulted in a %D that was outside the method acceptance limit of 20%D. Since a high response would indicate a high bias and pentachlorophenol was not detected above the PQL in the associated sample, the sample was not reanalyzed.

8270C SIM Analysis

There were three initial calibrations performed for this SDG. The initial calibration analyzed on the K instrument on 06/08/04 had %RSD values for five analytes that exceeded the method acceptance limit of 15%. For these analytes, a linear model was used for quantitation instead of an average response factor. The analytes benzo(a)anthracene and benzo(b)fluoranthene also failed the linear model in the initial calibration curve due to the correlation coefficient being less than the method acceptance criteria of 0.990. These compounds were calibrated using the average model.

The initial calibration analyzed on the K instrument on 06/14/04 had %RSD values for three analytes that exceeded the method acceptance limit of 15%. The analytes acenaphthene, chrysene and benzo(b)fluoranthene also failed the linear model in the initial calibration curve due to the correlation coefficient being less than the method acceptance criteria of 0.990. These compounds were calibrated using the average model.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) and MS/MSD are nominal limits for the full list of spiked target compounds. Katahdin standard operating procedure is not to take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory phthalate ester contaminants) in the LCS are outside of the QC limits.

The MS/MSD (WG7938-3 and 4) had recoveries for three analytes that were low and outside of the laboratory acceptance limits. Since the associated LCS was acceptable, the samples were not reanalyzed.

There were no other protocol deviations or observations noted by the organic laboratory staff.

Metals Analysis

The samples of Katahdin SDG CTO301/318-2 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Aqueous Waste", SW-846, November 1986, Third Edition.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix Katahdin Sample Nos. WU1552-(1,2,4,6, and 8) and WU1571-(1-2) were digested for ICP analysis on 06/14/04 (QC Batch UF14ICW1) in accordance with USEPA Method 3010A. Katahdin Sample No. WU1571-1 was prepared with duplicate matrix-spiked aliquots.

ICP analyses of SDG CTO301/318-2 sample digestates were performed using a Thermo Jarrell Ash (TJA) Trace ICP spectrometer. All samples were analyzed within holding times and all analytical run QC criteria were met, with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question with the following exception:

Matrix QC Summary

One or both of the matrix-spiked aliquots of Katahdin Sample No. WU1571-1 was within the laboratory's acceptance criteria (75% - 125% recovery of the added element, if the native concentration is less than four times the amount added) for lead.

The matrix spike duplicate analysis of Katahdin Sample No. WU1571-1 was within the laboratory's acceptance limit (<20% relative difference between duplicate matrix spiked aliquots) for lead.

The serial dilution analyses of Katahdin Sample No. WU1571-1 was within the laboratory's ICP serial dilution acceptance limit (<10% difference between the original sample result and the result for a 5-fold dilution of the sample, if the result for the dilution is at least ten times the instrument detection limit) for lead.

Wet Chemistry Analysis

The samples of SDG CTO301/318-2 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for nitrate and sulfate were performed according "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, 1979 Revised 1983, U.S. EPA.

All Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limits (MDL). Measured concentrations that fall between the MDL and Katahdin's Practical Quantitation Limit (PQL) are flagged "J". Measured concentrations that are below the MDL are flagged "U" and reported as "U PQL", where "PQL" is the numerical value of the Practical Quantitation Limit.

All analyses were performed within analytical hold time. All quality control criteria were met with the following exceptions:

For Katahdin Sample No. WU1571-1, the matrix spike recovery (37%) and matrix spike duplicate recovery (43%) for sulfate is outside the laboratory's acceptance criteria

No other deviations were noted by the Wet Chemistry group.

Katahdin
ANALYTICAL SERVICES

Cert. No. E87604

Subcontracted Analysis

Analyses for Methane/Ethane/Ethene were performed by a subcontract laboratory. Please refer to the section of the data package titled Subcontracted Data.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

María Crouch
06.28.04
María Crouch
Quality Assurance Officer

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # W4 1571

PAGE: 1 OF 2

COOLER: 1 OF 2

CLIENT: TTNUS

PROJECT: NAS Key West

COC#
SDG#
DATE / TIME RECEIVED: 5/27/04 0905
DELIVERED BY: FEDEX
RECEIVED BY: ASMB
LIMS ENTRY BY: ADC
LIMS REVIEW BY / PM: ADC

	YES	NO	EXCEPTIONS
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☐	☑	☐
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐
6. SAMPLES RECEIVED AT 4°C +/- 2? (ICE) ICE PACKS PRESENT (Y) or N?	☑	☐	☐
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐
8. TRIP BLANK PRESENT IN THIS COOLER	☑	☐	☐
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A

COMMENTS	RESOLUTION
*	
TEMP BLANK TEMP (°C)= 2.1	
COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

* Received VOA Trip Blank not on COC. Will add to workorder.

(1) **Use this space** (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

110000

WW552

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 3835 | **PAGE** 1 **OF** 1

PROJECT NO:	FACILITY: NAS KEY WEST	PROJECT MANAGER: EMILY McREE	PHONE NUMBER: (803)649-7963	LABORATORY NAME AND CONTACT: KATAHDIN - ANDREA COLBY
SAMPLERS (SIGNATURE): Gary Braganza		FIELD OPERATIONS LEADER: GARY BRAGANZA	PHONE NUMBER: (561)302-4137	ADDRESS: 340 COUNTY RD No. 5
		CARRIER/WAYBILL NUMBER: FEDEX / 8425 8908 8818		CITY, STATE: WESTBROOK, ME

STANDARD TAT ☑
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2004)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: PPL VOHs + BTEX MTBE	PAH	TRPH	EDB	Lead, Ar, Cd, Cr	Non-PPL Organics	Nitrate + Sulfate	Methane	COMMENTS
5/25	15:35	G01-MW-01A-0504	G01-MW-01A			GW	G	13	G		X	X	X	X	X		X	X	Lead only
	10:55	G01-MW-07-0504	G01-MW-07					20			X	X	X	X	X	X	X	X	TIC
	15:10	G01-MW-08-0504	G01-MW-08					20			X	X	X	X	X	X	X	X	TIC
	9:40	G01-MW-09-0504	G01-MW-09					20			X	X	X	X	X	X	X	X	TIC
		KW-DUP-02-0504				↓	↓	20			X	X	X	X	X	X	X	X	
		KWTB-052504																	

1. RELINQUISHED BY: Gary Braganza	DATE: 5/25/04	TIME	1. RECEIVED BY	DATE: 5/26/04	TIME: 0825
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

000013

CLW571

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 3836 | **PAGE** 1 **OF** 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
N4779	NAS KEY WEST	EMILY McREE	(803)649-7963	KATAHDIN LAB - ANDREA COLBY
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS**
Gary Braganza		GARY BRAGANZA	(561)302-4137	340 COUNTY RD NO. 5
		CARRIER/WAYBILL NUMBER		**CITY, STATE**
		FEDEX / 8425 8908 8932		WESTBROOK, ME

STANDARD TAT ☑
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2004	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: PPL VOHs, BTEX + MTBE	PAH	TRPH	EDB	Lead	Nitrate + Sulfate	Methane		COMMENTS
5/26	10:15	G01-MW-01-0504	G01-MW-01			GW	G				X	X	X	X	X	X	X		MS/MSD
	9:30	KW-RINS-01-0504				QC					X	X	X	X	X				

1. RELINQUISHED BY Gary Braganza	DATE 5/26/04	TIME	1. RECEIVED BY	DATE 5/27/04	TIME 0900
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

hlc0000

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/11/2004
Matrix: WATER
% Solids: NA

Lab ID: WG7892-2
Client ID: WG7892-Blank
SDG: CTO301318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-71-8	Dichlorodifluoromethane	U	1	1.0	1	1	0.2
74-87-3	Chloromethane	U	1	1.0	1	1	0.6
75-01-4	Vinyl chloride	U	1	1.0	1	1	0.2
74-83-9	Bromomethane	U	1	1.0	1	1	0.6
75-00-3	Chloroethane	U	1	1.0	1	1	0.2
75-69-4	Trichlorofluoromethane	U	1	1.0	1	1	0.2
60-29-7	Diethyl Ether	U	1	1.0	1	1	0.1
75-35-4	1,1-Dichloroethene	U	1	1.0	1	1	0.1
75-15-0	Carbon Disulfide	U	1	1.0	1	1	0.2
76-13-1	Freon-113	U	1	1.0	1	1	0.3
75-09-2	Methylene Chloride	U	2	1.0	2	2	0.4
67-64-1	Acetone	U	5	1.0	5	5	1
156-60-5	trans-1,2-Dichloroethene	U	1	1.0	1	1	0.1
1634-04-4	Methyl tert-butyl ether	U	2	1.0	2	2	0.2
75-34-3	1,1-Dichloroethane	U	1	1.0	1	1	0.1
108-05-4	Vinyl Acetate	U	1	1.0	1	1	0.8
156-59-2	cis-1,2-Dichloroethene	U	1	1.0	1	1	0.09
540-59-0	1,2-Dichloroethylene (total)	U	2	1.0	2	2	0.2
594-20-7	2,2-Dichloropropane	U	1	1.0	1	1	0.2
74-97-5	Bromochloromethane	U	1	1.0	1	1	0.1
67-66-3	Chloroform	U	1	1.0	1	1	0.1
56-23-5	Carbon Tetrachloride	U	1	1.0	1	1	0.1
109-99-9	Tetrahydrofuran	U	5	1.0	5	5	1
71-55-6	1,1,1-Trichloroethane	U	1	1.0	1	1	0.2
563-58-6	1,1-Dichloropropene	U	1	1.0	1	1	0.9
78-93-3	2-Butanone	U	5	1.0	5	5	1
71-43-2	Benzene	U	1	1.0	1	1	0.09
107-06-2	1,2-Dichloroethane	U	1	1.0	1	1	0.2
79-01-6	Trichloroethene	U	1	1.0	1	1	0.08
74-95-3	Dibromomethane	U	1	1.0	1	1	0.08
78-87-5	1,2-Dichloropropane	U	1	1.0	1	1	0.1
75-27-4	Bromodichloromethane	U	1	1.0	1	1	0.09
10061-01-5	cis-1,3-dichloropropene	U	1	1.0	1	1	0.1
110-75-8	2-Chloroethylvinylether	U	1	1.0	1	1	0.2
108-88-3	Toluene	U	1	1.0	1	1	0.2
108-10-1	4-methyl-2-pentanone	U	5	1.0	5	5	0.8
127-18-4	Tetrachloroethene	U	1	1.0	1	1	0.4
10061-02-6	trans-1,3-Dichloropropene	U	1	1.0	1	1	0.2
79-00-5	1,1,2-Trichloroethane	U	1	1.0	1	1	0.1
124-48-1	Dibromochloromethane	U	1	1.0	1	1	0.08
142-28-9	1,3-Dichloropropane	U	1	1.0	1	1	0.2
106-93-4	1,2-Dibromoethane	U	1	1.0	1	1	0.09
591-78-6	2-Hexanone	U	5	1.0	5	5	1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 06/01/04
Report Date: 06/11/2004
Matrix: WATER
% Solids: NA

Lab ID: WG7892-2
Client ID: WG7892-Blank
SDG: CTO301318-2
Extracted by:
Extraction Method: SW846 5030
Analyst: AZ
Analysis Method: SW846 8260B
Lab Prep Batch: WG7892
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-90-7	Chlorobenzene	U	1	1.0	1	1	0.09
100-41-4	Ethylbenzene	U	1	1.0	1	1	0.2
630-20-6	1,1,1,2-Tetrachloroethane	U	1	1.0	1	1	0.2
1330-20-7	Xylenes (total)	U	3	1.0	3	3	0.5
	m+p-Xylenes	U	2	1.0	2	2	0.3
95-47-6	o-Xylene	U	1	1.0	1	1	0.2
100-42-5	Styrene	U	1	1.0	1	1	0.1
75-25-2	Bromoform	U	1	1.0	1	1	0.1
98-82-8	Isopropylbenzene	U	1	1.0	1	1	0.3
108-86-1	Bromobenzene	U	1	1.0	1	1	0.2
103-65-1	N-Propylbenzene	U	1	1.0	1	1	0.3
79-34-5	1,1,2,2-Tetrachloroethane	U	1	1.0	1	1	0.2
108-67-8	1,3,5-Trimethylbenzene	U	1	1.0	1	1	0.2
95-49-8	2-Chlorotoluene	U	1	1.0	1	1	0.2
96-18-4	1,2,3-Trichloropropane	U	1	1.0	1	1	0.1
106-43-4	4-Chlorotoluene	U	1	1.0	1	1	0.2
98-06-6	tert-Butylbenzene	U	1	1.0	1	1	0.3
95-63-6	1,2,4-Trimethylbenzene	U	1	1.0	1	1	0.3
99-87-6	P-Isopropyltoluene	U	1	1.0	1	1	0.3
541-73-1	1,3-Dichlorobenzene	U	1	1.0	1	1	0.2
106-46-7	1,4-Dichlorobenzene	U	1	1.0	1	1	0.2
104-51-8	N-Butylbenzene	U	1	1.0	1	1	0.3
135-98-8	sec-Butylbenzene	U	1	1.0	1	1	0.3
95-50-1	1,2-Dichlorobenzene	U	1	1.0	1	1	0.2
96-12-8	1,2-Dibromo-3-Chloropropane	U	1	1.0	1	1	0.4
108-70-3	1,3,5-Trichlorobenzene	U	1	1.0	1	1	0.3
87-68-3	Hexachlorobutadiene	U	1	1.0	1	1	0.4
120-82-1	1,2,4-Trichlorobenzene	U	1	1.0	1	1	0.2
526-73-8	1,2,3-Trimethylbenzene	U	1	1.0	1	1	0.2
91-20-3	Naphthalene	U	1	1.0	1	1	0.4
87-61-6	1,2,3-Trichlorobenzene	U	1	1.0	1	1	0.3
1868-53-7	Dibromofluoromethane		102%				
17060-07-0	1,2-Dichloroethane-D4		99%				
2037-26-5	Toluene-D8		101%				
460-00-4	P-Bromofluorobenzene		94%				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

WG7892-Blank

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Matrix: (soil/water) WATER Lab Sample ID: WG7892-2

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: Z1730

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 06/01/04

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
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FORM I VOA-TIC

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES, Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 DBF#	SMC2 DCA#	SMC3 TOL#	SMC4 BFB#	TOT OUT
01	WG7892-LCS	WG7892-1	99	95	101	96	0
02	WG7892-BLANK	WG7892-2	102	99	101	94	0
03	KWTB-052504	WU1564-5	101	100	105	98	0
04	KWTB-052604	WU1571-3	104	104	103	99	0
05	G01-MW-07-0504	WU1564-1	102	104	103	96	0
06	G01-MW-08-0504	WU1564-2	109	106	105	96	0
07	G01-MW-09-0504	WU1564-3	104	106	105	96	0
08	KW-DUP-02-0504	WU1564-4	103	106	103	97	0
09	G01-MW-01-0504	WU1571-1	106	108	103	98	0
10	KW-RINS-01-0504	WU1571-2	107	105	104	98	0
11	G01-MW-01A-0504	WU1552-1	106	108	104	97	0
12	G01-MW-01-0504MS	WG7892-3	104	104	106	102	0
13	G01-MW-01-0504MSD	WG7892-4	106	104	106	102	0
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	QC LIMITS
SMC1 (DBF) = Dibromofluoromethane	(76-118)
SMC2 (DCA) = 1,2-Dichloroethane-D4	(76-119)
SMC3 (TOL) = Toluene-D8	(68-122)
SMC4 (BFB) = P-Bromofluorobenzene	(56-119)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG7892-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Lab File ID: Z1730 Lab Sample ID: WG7892-2

Date Analyzed: 06/01/04 Time Analyzed: 1024

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-Z

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG7892-LCS	WG7892-1	Z1728	06/01/04	0909
02	KWTB-052504	WU1564-5	Z1732	06/01/04	1141
03	KWTB-052604	WU1571-3	Z1733	06/01/04	1219
04	G01-MW-07-0504	WU1564-1	Z1737	06/01/04	1523
05	G01-MW-08-0504	WU1564-2	Z1738	06/01/04	1601
06	G01-MW-09-0504	WU1564-3	Z1739	06/01/04	1638
07	KW-DUP-02-0504	WU1564-4	Z1740	06/01/04	1716
08	G01-MW-01-0504	WU1571-1	Z1741	06/01/04	1753
09	KW-RINS-01-0504	WU1571-2	Z1742	06/01/04	1830
10	G01-MW-01A-0504	WU1552-1	Z1743	06/01/04	1908
11	G01-MW-01-0504MS	WG7892-3	Z1744	06/01/04	1945
12	G01-MW-01-0504MSD	WG7892-4	Z1745	06/01/04	2023
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Lab File ID: ZB820 BFB Injection Date: 05/26/04

Instrument ID: GCMS-Z BFB Injection Time: 0814

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.7
75	30.0 - 60.0% of mass 95	40.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	74.5
175	5.0 - 9.0% of mass 174	5.7 (7.7)1
176	95.0 - 101.0% of mass 174	71.4 (95.9)1
177	5.0 - 9.0% of mass 176	4.6 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD200Z26A	Z1677	05/26/04	1242
02		VSTD050Z26A	Z1679	05/26/04	1358
03		VSTD020Z26A	Z1680	05/26/04	1435
04		VSTD005Z26A	Z1681	05/26/04	1512
05		VSTD001Z26A	Z1682	05/26/04	1550
06		VSTD100Z26A	Z1685	05/26/04	1742
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FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-Z Calibration Date(s): 05/26/04 05/26/04

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 0937 1742

LAB FILE ID: RF1: Z1682 RF5: Z1681 RF20: Z1680
RF50: Z1679 RF100: Z1685 RF200: Z1677

								COEFFICENTS			%RSD	MAX %RSD
COMPOUND	RF1	RF5	RF20	RF50	RF100	RF200	CURVE	A0	A1	A2	OR R^2	OR R^2
Dichlorodifluoromethane	0.280	0.208	0.260	0.293	0.314	0.310	AVRG		0.27730909		14.266	15.000
Chloromethane	0.477	0.418	0.457	0.460	0.482	0.485	AVRG		0.46311278		5.394	15.000
Vinyl chloride	0.439	0.398	0.447	0.484	0.475	0.486	AVRG		0.45488987		7.505	15.000
Bromomethane	0.210	0.212	0.257	0.272	0.297	0.269	AVRG		0.25299352		13.836	15.000
Chloroethane	2744	11974	50442	115500	213580	345280	2ORDR	3.079e-002	2.44789556	4.31158491	0.99848	0.99000
Trichlorofluoromethane	0.449	0.371	0.451	0.493	0.519	0.502	AVRG		0.46428343		11.550	15.000
Diethyl Ether	0.325	0.256	0.298	0.290	0.312	0.289	AVRG		0.29514948		7.895	15.000
1,1-Dichloroethene	0.368	0.321	0.358	0.384	0.392	0.384	AVRG		0.36787155		7.026	15.000
Carbon Disulfide	1.200	1.102	1.290	1.348	1.364	1.333	AVRG		1.27295709		8.040	15.000
Freon-113	0.296	0.221	0.283	0.257	0.290	0.285	AVRG		0.27215966		10.411	15.000
Methylene Chloride	32429	41288	107890	231860	451840	910160	LINR	-8.9e-002	2.16168840		0.99903	0.99000
Acetone	0.049	0.042	0.050	0.050	0.051	0.042	AVRG		4.755e-002		8.589	15.000
trans-1,2-Dichloroethene	0.403	0.378	0.438	0.466	0.457	0.442	AVRG		0.43071507		7.763	15.000
Methyl tert-butyl ether	1.097	0.976	1.172	1.220	1.198	1.119	AVRG		1.13035738		7.860	15.000
1,1-Dichloroethane	0.627	0.624	0.742	0.752	0.742	0.746	AVRG		0.70531902		8.800	15.000
Vinyl Acetate	10859	37358	205690	523330	1116600	2448200	2ORDR	8.952e-003	1.37289184	-5.14e-002	0.99995	0.99000
cis-1,2-Dichloroethene	0.484	0.421	0.488	0.492	0.525	0.524	AVRG		0.48883790		7.739	15.000
1,2-Dichloroethylene (tot							AVRG					0.000
2,2-Dichloropropane	0.516	0.422	0.514	0.540	0.540	0.562	AVRG		0.51597450		9.562	15.000
Bromochloromethane	0.258	0.222	0.281	0.278	0.286	0.272	AVRG		0.26606717		8.974	15.000
Chloroform	0.686	0.622	0.733	0.757	0.783	0.746	AVRG		0.72129946		8.038	15.000
Carbon Tetrachloride	0.233	0.229	0.271	0.301	0.308	0.313	AVRG		0.27586335		13.626	15.000
Tetrahydrofuran	13125	39252	187900	460590	937670	1609800	2ORDR	0.16287180	3.67539408	0.67704342	0.99837	0.99000
1,1,1-Trichloroethane	0.477	0.444	0.534	0.568	0.583	0.561	AVRG		0.52789688		10.554	15.000
1,1-Dichloropropene	0.316	0.296	0.344	0.371	0.370	0.375	AVRG		0.34520603		9.550	15.000
2-Butanone	0.065	0.057	0.074	0.075	0.076	0.065	AVRG		6.875e-002		11.001	15.000
Benzene	1.085	1.001	1.148	1.215	1.199	1.192	AVRG		1.13992317		7.243	15.000
1,2-Dichloroethane	0.335	0.300	0.350	0.352	0.362	0.363	AVRG		0.34377280		6.827	15.000
Trichloroethene	0.257	0.237	0.269	0.286	0.280	0.280	AVRG		0.26816078		6.882	15.000
Dibromomethane	0.204	0.168	0.213	0.209	0.208	0.201	AVRG		0.20039928		8.164	15.000
1,2-Dichloropropane	2847	18705	87990	216360	434660	902810	LINR	6.857e-003	3.27226982		0.99988	0.99000
Bromodichloromethane	0.301	0.280	0.346	0.358	0.370	0.362	AVRG		0.33620153		10.968	15.000
cis-1,3-dichloropropene	0.385	0.357	0.454	0.465	0.491	0.485	AVRG		0.43931393		12.606	15.000
2-Chloroethylvinylether	0.152	0.148	0.198	0.203	0.208	0.201	AVRG		0.18496729		14.925	15.000
Toluene	0.644	0.596	0.695	0.718	0.693	0.711	AVRG		0.67604963		6.977	15.000
4-methyl-2-pentanone	0.348	0.299	0.399	0.397	0.377	0.297	AVRG		0.35301125		13.093	15.000
Tetrachloroethene	0.264	0.239	0.252	0.276	0.275	0.292	AVRG		0.26633261		7.071	15.000
trans-1,3-Dichloropropene	0.306	0.295	0.382	0.399	0.409	0.403	AVRG		0.36567128		14.021	15.000
1,1,2-Trichloroethane	0.222	0.196	0.243	0.247	0.245	0.232	AVRG		0.23102947		8.417	15.000
Dibromochloromethane	3327	16831	88684	230360	476290	979990	LINR	2.905e-002	2.41730802		0.99963	0.99000
1,3-Dichloropropane	0.521	0.482	0.590	0.615	0.576	0.592	AVRG		0.56284178		8.990	15.000
1,2-Dibromoethane	0.297	0.258	0.328	0.325	0.327	0.321	AVRG		0.30946138		8.935	15.000
2-Hexanone	0.290	0.263	0.333	0.344	0.334	0.282	AVRG		0.30789044		10.945	15.000
Chlorobenzene	0.908	0.798	0.925	0.930	0.931	0.924	AVRG		0.90277880		5.753	15.000

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-Z Calibration Date(s): 05/26/04 05/26/04

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 0937 1742

LAB FILE ID: RF1: Z1682 RF5: Z1681 RF20: Z1680
RF50: Z1679 RF100: Z1685 RF200: Z1677

COMPOUND	RF1	RF5	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	COEFFICENTS A2	%RSD OR R^2	MAX %RSD OR R^2
Ethylbenzene	1.401	1.248	1.445	1.490	1.467	1.443	AVRG		1.41558272		6.171	15.000
1,1,1,2-Tetrachloroethane	0.267	0.264	0.310	0.328	0.339	0.350	AVRG		0.30982527		11.830	15.000
Xylenes (total)							AVRG					0.000
m+p-Xylenes	0.623	0.498	0.545	0.570	0.562	0.513	AVRG		0.55160504		8.083	15.000
o-Xylene	0.552	0.472	0.542	0.569	0.553	0.572	AVRG		0.54344391		6.744	15.000
Styrene	0.820	0.804	0.903	0.979	0.968	0.985	AVRG		0.90978936		8.970	15.000
Bromoform	2444	11262	62471	169120	356740	738890	LINR	4.033e-002	3.20184981		0.99937	0.99000
Isopropylbenzene	2.266	1.919	2.188	2.351	2.222	2.326	AVRG		2.21211904		7.061	15.000
Bromobenzene	0.788	0.705	0.807	0.838	0.815	0.831	AVRG		0.79741304		6.116	15.000
N-Propylbenzene	3.239	2.659	2.936	3.003	2.812	2.800	AVRG		2.90824525		6.914	15.000
1,1,2,2-Tetrachloroethane	1.026	0.808	0.994	1.018	0.986	0.946	AVRG		0.96320889		8.427	15.000
1,3,5 Trimethylbenzene	2.083	1.758	1.952	2.001	1.927	1.920	AVRG		1.94029747		5.557	15.000
2-Chlorotoluene	2.230	1.839	2.059	2.054	1.935	1.959	AVRG		2.01264612		6.668	15.000
1,2,3-Trichloropropane	1.129	0.908	1.164	1.188	1.183	1.114	AVRG		1.11450983		9.441	15.000
4-Chlorotoluene	2.147	1.767	1.955	1.997	1.867	1.909	AVRG		1.94022773		6.621	15.000
tert-Butylbenzene	1.680	1.569	1.591	1.822	1.596	1.756	AVRG		1.66920382		6.142	15.000
1,2,4-Trimethylbenzene	13984	55913	249690	623670	1247500	2408800	LINR	-9.35e-003	0.50061139		0.99985	0.99000
P-Isopropyltoluene	1.948	1.707	1.866	1.966	1.931	1.973	AVRG		1.89845339		5.324	15.000
1,3-Dichlorobenzene	1.462	1.158	1.322	1.335	1.351	1.426	AVRG		1.34226094		7.876	15.000
1,4-Dichlorobenzene	1.689	1.276	1.413	1.448	1.361	1.338	AVRG		1.42070995		10.148	15.000
N-Butylbenzene	1.937	1.536	1.624	1.724	1.636	1.720	AVRG		1.69616237		8.075	15.000
sec-Butylbenzene	2.472	2.044	2.259	2.362	2.282	2.348	AVRG		2.29457772		6.252	15.000
1,2-Dichlorobenzene	1.431	1.106	1.263	1.340	1.329	1.329	AVRG		1.29969191		8.400	15.000
1,2-Dibromo-3-Chloropropa	0.302	0.227	0.269	0.272	0.262	0.251	AVRG		0.26386212		9.365	15.000
1,3,5-Trichlorobenzene	0.566	0.427	0.483	0.498	0.517	0.511	AVRG		0.50043338		9.130	15.000
Hexachlorobutadiene	2059	7162	26732	64992	136000	281090	LINR	2.073e-002	4.32015990		0.99874	0.99000
1,2,4-Trichlorobenzene	0.796	0.655	0.761	0.757	0.749	0.815	AVRG		0.75557890		7.339	15.000
1,2,3-Trimethylbenzene	1.486	1.170	1.306	1.298	1.301	1.148	AVRG		1.28473155		9.429	15.000
Naphthalene	2.520	2.050	2.595	2.630	2.585	2.531	AVRG		2.48525035		8.740	15.000
1,2,3-Trichlorobenzene	0.773	0.636	0.720	0.738	0.730	0.774	AVRG		0.72859746		6.944	15.000
Dibromofluoromethane	0.458	0.447	0.514	0.487	0.491	0.482	AVRG		0.47976998		5.027	15.000
1,2-Dichloroethane-D4	0.498	0.457	0.482	0.456	0.472	0.449	AVRG		0.46922069		3.925	15.000
Toluene-D8	0.989	0.950	1.060	1.009	1.001	0.996	AVRG		1.00067766		3.554	15.000
P-Bromofluorobenzene	0.432	0.351	0.394	0.379	0.371	0.368	AVRG		0.38250394		7.341	15.000

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-Z Calibration Date(s): 05/26/04 05/26/04

Column: RTX-VMS ID: 0.18 (mm) Calibration Time(s): 0937 1742

Average %RSD test result.

Calculate Average %RSD: 11.51032734
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Lab File ID: ZB823 BFB Injection Date: 06/01/04

Instrument ID: GCMS-Z BFB Injection Time: 0804

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.8
75	30.0 - 60.0% of mass 95	39.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	92.0
175	5.0 - 9.0% of mass 174	6.5 (7.1)1
176	95.0 - 101.0% of mass 174	91.1 (99.1)1
177	5.0 - 9.0% of mass 176	6.0 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		VSTD050Z01A	Z1727	06/01/04	0828
02	WG7892-LCS	WG7892-1	Z1728	06/01/04	0909
03	WG7892-BLANK	WG7892-2	Z1730	06/01/04	1024
04	KWTB-052504	WU1564-5	Z1732	06/01/04	1141
05	KWTB-052604	WU1571-3	Z1733	06/01/04	1219
06	G01-MW-07-0504	WU1564-1	Z1737	06/01/04	1523
07	G01-MW-08-0504	WU1564-2	Z1738	06/01/04	1601
08	G01-MW-09-0504	WU1564-3	Z1739	06/01/04	1638
09	KW-DUP-02-0504	WU1564-4	Z1740	06/01/04	1716
10	G01-MW-01-0504	WU1571-1	Z1741	06/01/04	1753
11	KW-RINS-01-0504	WU1571-2	Z1742	06/01/04	1830
12	G01-MW-01A-0504	WU1552-1	Z1743	06/01/04	1908
13	G01-MW-01-0504MS	WG7892-3	Z1744	06/01/04	1945
14	G01-MW-01-0504MSD	WG7892-4	Z1745	06/01/04	2023
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FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-Z Calibration Date: 06/01/04 Time: 0828

Lab File ID: Z1727 Init. Calib. Date(s): 05/26/04 05/26/04

Init. Calib. Times: 0937 1742

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Dichlorodifluoromethane	0.2780000	0.2736500	0.2736500	0.01	-1.56		AVRG	
Chloromethane	0.4630000	0.4585500	0.4585500	0.1	-0.96		AVRG	
Vinyl chloride	0.4550000	0.4320900	0.4320900	0.01	-5.04	20.00	AVRG	
Bromomethane	0.2530000	0.1916300	0.1916300	0.01	-24.26		AVRG	
Chloroethane	40.729000	50.000000	0.2283500	0.01	-18.54		2RDR	
Trichlorofluoromethane	0.4640000	0.4642400	0.4642400	0.01	0.05		AVRG	
Diethyl Ether	0.2950000	0.3050200	0.3050200	0.01	3.40		AVRG	
1,1-Dichloroethene	0.3680000	0.3447400	0.3447400	0.1	-6.32	20.00	AVRG	
Carbon Disulfide	1.2730000	1.2612000	1.2612000	0.01	-0.93		AVRG	
Freon-113	0.2720000	0.2914900	0.2914900	0.01	7.16		AVRG	
Methylene Chloride	48.867000	50.000000	0.4933100	0.01	-2.27		LINR	
Acetone	4.7e-002	4.96e-002	4.96e-002	0.01	5.53		AVRG	
trans-1,2-Dichloroethene	0.4310000	0.4131400	0.4131400	0.01	-4.14		AVRG	
Methyl tert-butyl ether	1.1300000	1.2062000	1.2062000	0.01	6.74		AVRG	
1,1-Dichloroethane	0.7060000	0.6949200	0.6949200	0.3	-1.57		AVRG	
Vinyl Acetate	48.900000	50.000000	0.7255400	0.01	-2.20		2RDR	
cis-1,2-Dichloroethene	0.4890000	0.5164400	0.5164400	0.01	5.61		AVRG	
1,2-Dichloroethylene (total)	0.0000000	0.9295800	0.9295800	0.01	0.00		AVRG	<-
2,2-Dichloropropane	0.5160000	0.5597500	0.5597500	0.01	8.48		AVRG	
Bromochloromethane	0.2660000	0.2705500	0.2705500	0.01	1.71		AVRG	
Chloroform	0.7210000	0.7357600	0.7357600	0.01	2.05	20.00	AVRG	
Carbon Tetrachloride	0.2760000	0.2921700	0.2921700	0.01	5.86		AVRG	
Tetrahydrofuran	211.05000	250.00000	0.1882000	0.01	-15.58		2RDR	
1,1,1-Trichloroethane	0.5280000	0.5424100	0.5424100	0.01	2.73		AVRG	
1,1-Dichloropropene	0.3450000	0.3625000	0.3625000	0.01	5.07		AVRG	
2-Butanone	6.9e-002	8.09e-002	8.09e-002	0.01	17.25		AVRG	
Benzene	1.1400000	1.1744000	1.1744000	0.01	3.02		AVRG	
1,2-Dichloroethane	0.3440000	0.3584600	0.3584600	0.01	4.20		AVRG	
Trichloroethene	0.2680000	0.2647300	0.2647300	0.01	-1.22		AVRG	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-Z Calibration Date: 06/01/04 Time: 0828

Lab File ID: Z1727 Init. Calib. Date(s): 05/26/04 05/26/04

Init. Calib. Times: 0937 1742

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Dibromomethane	0.2000000	0.2013400	0.2013400	0.01	0.67		AVRG	
1,2-Dichloropropane	51.770000	50.000000	0.3143200	0.01	3.54	20.00	LINR	
Bromodichloromethane	0.3360000	0.3463800	0.3463800	0.01	3.09		AVRG	
cis-1,3-dichloropropene	0.4400000	0.4877400	0.4877400	0.01	10.85		AVRG	
2-Chloroethylvinylether	0.1850000	0.2337900	0.2337900	0.01	26.37		AVRG	
Toluene	0.6760000	0.6855900	0.6855900	0.01	1.42	20.00	AVRG	
4-methyl-2-pentanone	0.3530000	0.3972000	0.3972000	0.01	12.52		AVRG	
Tetrachloroethene	0.2660000	0.2663300	0.2663300	0.01	0.12		AVRG	
trans-1,3-Dichloropropene	0.3660000	0.4067800	0.4067800	0.01	11.14		AVRG	
1,1,2-Trichloroethane	0.2310000	0.2278000	0.2278000	0.01	-1.38		AVRG	
Dibromochloromethane	46.052000	50.000000	0.3690000	0.01	-7.90		LINR	
1,3-Dichloropropane	0.5630000	0.5320300	0.5320300	0.01	-5.50		AVRG	
1,2-Dibromoethane	0.3090000	0.3122700	0.3122700	0.01	1.06		AVRG	
2-Hexanone	0.3080000	0.3223100	0.3223100	0.01	4.65		AVRG	
Chlorobenzene	0.9030000	0.8529600	0.8529600	0.3	-5.54		AVRG	
Ethylbenzene	1.4160000	1.3465000	1.3465000	0.01	-4.91	20.00	AVRG	
1,1,1,2-Tetrachloroethane	0.3100000	0.3046100	0.3046100	0.01	-1.74		AVRG	
Xylenes (total)	0.0000000	0.5236800	0.5236800	0.01	0.00		AVRG	<-
m+p-Xylenes	0.5520000	0.5308700	0.5308700	0.01	-3.83		AVRG	
o-Xylene	0.5430000	0.5092900	0.5092900	0.01	-6.21		AVRG	
Styrene	0.9100000	0.8748800	0.8748800	0.01	-3.86		AVRG	
Bromoform	44.979000	50.000000	0.2683600	0.1	-10.04		LINR	
Isopropylbenzene	2.2120000	1.8394000	1.8394000	0.01	-16.84		AVRG	
Bromobenzene	0.7970000	0.6838900	0.6838900	0.01	-14.19		AVRG	
N-Propylbenzene	2.9080000	2.4036000	2.4036000	0.01	-17.34		AVRG	
1,1,2,2-Tetrachloroethane	0.9630000	0.7896200	0.7896200	0.3	-18.00		AVRG	
1,3,5-Trimethylbenzene	1.9400000	1.6716000	1.6716000	0.01	-13.84		AVRG	
2-Chlorotoluene	2.0130000	1.6551000	1.6551000	0.01	-17.78		AVRG	
1,2,3-Trichloropropane	1.1140000	0.9852100	0.9852100	0.01	-11.56		AVRG	

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-Z Calibration Date: 06/01/04 Time: 0828

Lab File ID: Z1727 Init. Calib. Date(s): 05/26/04 05/26/04

Init. Calib. Times: 0937 1742

GC Column: RTX-VMS ID: 0.18 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
4-Chlorotoluene	1.9400000	1.5298000	1.5298000	0.01	-21.14		AVRG
tert-Butylbenzene	1.6690000	1.3020000	1.3020000	0.01	-21.99		AVRG
1,2,4-Trimethylbenzene	45.826000	50.000000	1.8495000	0.01	-8.35		LINR
P-Isopropyltoluene	1.8980000	1.5416000	1.5416000	0.01	-18.78		AVRG
1,3-Dichlorobenzene	1.3420000	1.1208000	1.1208000	0.01	-16.48		AVRG
1,4-Dichlorobenzene	1.4210000	1.1703000	1.1703000	0.01	-17.64		AVRG
N-Butylbenzene	1.6960000	1.3913000	1.3913000	0.01	-17.97		AVRG
sec-Butylbenzene	2.2940000	1.8771000	1.8771000	0.01	-18.17		AVRG
1,2-Dichlorobenzene	1.3000000	1.0778000	1.0778000	0.01	-17.09		AVRG
1,2-Dibromo-3-Chloropropane	0.2640000	0.2273100	0.2273100	0.01	-13.90		AVRG
1,3,5-Trichlorobenzene	0.5000000	0.5289800	0.5289800	0.01	5.80		AVRG
Hexachlorobutadiene	37.062000	50.000000	0.1667800	0.01	-25.88		LINR
1,2,4-Trichlorobenzene	0.7560000	0.6423000	0.6423000	0.01	-15.04		AVRG
1,2,3-Trimethylbenzene	1.2850000	1.4662000	1.4662000	0.01	14.10		AVRG
Naphthalene	2.4850000	2.2305000	2.2305000	0.01	-10.24		AVRG
1,2,3-Trichlorobenzene	0.7280000	0.5946400	0.5946400	0.01	-18.32		AVRG
Dibromofluoromethane	0.4800000	0.4909900	0.4909900	0.01	2.29		AVRG
1,2-Dichloroethane-D4	0.4690000	0.4492600	0.4492600	0.01	-4.21		AVRG
Toluene-D8	1.0010000	1.0578000	1.0578000	0.01	5.67		AVRG
P-Bromofluorobenzene	0.3820000	0.4026000	0.4026000	0.01	5.39		AVRG

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0405498

Work Order Summary

CLIENT:	Ms. Andrea Colby Katahdin Laboratory 340 County Road, #5 West Brook, ME 04092	**BILL TO:**	Ms. Andrea Colby Katahdin Laboratory 340 County Road, #5 West Brook, ME 04092
PHONE:	207-874-2400	**P.O. #**	
FAX:	207-775-4029	**PROJECT #**	WU1552/WU1571 TT NUS/Key West
DATE RECEIVED:	5/28/2004	**CONTACT:**	Betty Chu
DATE COMPLETED:	6/10/2004		

FRACTION #	NAME	TEST
01A	G01-MW-01A-0504	Mod. RSK-175
02A	G01-MW-07-0504	Mod. RSK-175
03A	G01-MW-08-0504	Mod. RSK-175
03AA	G01-MW-08-0504 Duplicate	Mod. RSK-175
04A	G01-MW-09-0504	Mod. RSK-175
05A	KW-DUP-02-0504	Mod. RSK-175
06A	G01-MW-01-0504	Mod. RSK-175
06AMS	G01-MW-01-0504 MS	Mod. RSK-175
06AMSD	G01-MW-01-0504 MSD	Mod. RSK-175
07A	Lab Blank	Mod. RSK-175
08A	LCS	Mod. RSK-175

CERTIFIED BY: Linda A. Truman DATE: 06/10/04

Laboratory Director

Certfication numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified RSK 175
Katahdin Laboratory
Workorder# 0405498

Six VOA Vial-40 mL samples were received on May 28, 2004. The laboratory performed analysis via Modified RSK 175 for Methane using GC/FID. The method involves placing an aliquot of the sample in a headspace vial. The vial is then placed into HP7694 Headspace Autosampler equipped with oven, shaker and 1 mL sample loop. Sample is incubated and then equilibrated at 40°C for 15 minutes with high agitation. Finally, a direct injection of the headspace is performed. See the data sheets for the reporting limits for each compound.

Requirement	*RSK 175*	*ATL Modifications*
Sample Collection	Collect sample in 60 mL crimp-top vial.	Collect sample in 40 mL VOA vial.
Headspace Generation	Headspace is generated in 60 mL sample vial by displacing volume of liquid with Helium. The amount of liquid should be 10% of sample volume in bottle, up to 10 mL.	5.0 mL of sample is displaced with 5.0 mL Nitrogen and transferred to a Nitrogen purged and capped autosampler vial. Headspace is then generated in the autosampler vial.
Sample Preparation	Sample is shaken 5 min. to equilibrate analyte between headspace and liquid phase.	Prior to injection, autosampler shakes sample for 15 min. while heating to 40°C.
Headspace Injection	Syringe injection of 300 mL headspace into GC.	Autosampler pressurizes sample to fill 1.0 mL loop with headspace sample.
Calibration and Quantitation	Direct injections of gas phase standards are used to obtain a Calibration Curve. Henry's Law is used to calculate mg of gas per Liter of water. Calculation requires recording total volume of serum bottle and headspace, and sample temperature.	Calibration standards are prepared by addition of a gaseous spike solution to clean water. Response factors are calculated for each level of a multi point calibration, and the mean is used to calculate quantitation for each target analyte.
Initial Calibration Curve (ICAL)	Linear regression	% RSD </= 30%, use average RF to quantify results
Lab Blanks	Blank subtraction is performed.	No blank subtraction; Lab Blank must be less than the Reporting Limit.
Specified Detectors	FID or ECD	FID or TCD

Receiving Notes

Water samples G01-MW-01-0504 MS and G01-MW-01-0504 MSD were received with a significant amount of headspace. (i.e., the diameter of the bubble was greater than 5 mm). The discrepancy was noted in the Sample Receipt Confirmation email/fax.

0002

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
G01-MW-01A-0504	0405498-01A	5/25/2004	5/28/2004	NA	7	6/ 1/2004	NA	Good
G01-MW-07-0504	0405498-02A	5/25/2004	5/28/2004	NA	7	6/ 1/2004	NA	Good
G01-MW-08-0504	0405498-03A	5/25/2004	5/28/2004	NA	7	6/ 1/2004	NA	Good
G01-MW-08-0504 Dupli	0405498-03AA	5/25/2004	5/28/2004	NA	7	6/ 1/2004	NA	Good
G01-MW-09-0504	0405498-04A	5/25/2004	5/28/2004	NA	7	6/ 1/2004	NA	Good
KW-DUP-02-0504	0405498-05A	5/25/2004	5/28/2004	NA	7	6/ 1/2004	NA	Good
G01-MW-01-0504	0405498-06A	5/26/2004	5/28/2004	NA	6	6/ 1/2004	NA	Good
G01-MW-01-0504 MS	0405498-06AMS	5/26/2004	NA	NA	6	6/ 1/2004	NA	Good
G01-MW-01-0504 MSD	0405498-06AMS	5/26/2004	NA	NA	6	6/ 1/2004	NA	Good
Lab Blank	0405498-07A	NA	NA	NA	NA	6/ 1/2004	NA	Good
LCS	0405498-08A	NA	NA	NA	NA	6/ 1/2004	NA	Good

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0405498-07A

MODIFIED METHOD RSK-175 GC/FID

File Name:	7060103	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 6/1/04 08:01 AM	

Compound	Rpt. Limit (ug/ml)	Amount (ug/ml)
Methane	0.010	Not Detected

Container Type: NA - Not Applicable

0028

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: 7060116.d & 7060115.d

Lab Sample ID: 03A & 03AA

Dilution: 1.00 & 1.00

Client Sample ID: &

Date Analyzed: 6/1/04 & 6/1/04

		Original		Duplicate		
CAS Number	Compound	Amount	Flags	Amount	Flags	RPD
74-82-8	Methane	6.065		6.2		2.2

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: 7060121.d & 7060120.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: &

Date Analyzed: 6/1/04 & 6/1/04

		Original		Duplicate		
CAS Number	Compound	Amount	Flags	Amount	Flags	RPD
74-82-8	Methane	152		168		10

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-01-0504 MS

ID#: 0405498-06AMS

MODIFIED METHOD RSK-175 GC/FID

File Name:	7060120	Date of Collection:	5/26/04
Dil. Factor:	1.00	Date of Analysis:	6/1/04 02:03 PM

Compound	%Recovery
Methane	98

Container Type: VOA Vial-40 mL

0033

AIR TOXICS LTD.

SAMPLE NAME: G01-MW-01-0504 MSD

ID#: 0405498-06AMSD

MODIFIED METHOD RSK-175 GC/FID

File Name:	7060121	Date of Collection:	5/26/04
Dil. Factor:	1.00	Date of Analysis:	6/1/04 02:24 PM

Compound	%Recovery
Methane	114

Container Type: VOA Vial-40 mL

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 11-APR-2003 11:42
End Cal Date : 11-APR-2003 14:02
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/gc7.i/16Jul2003.b/38100411m5a.m
Cal Date : 17-Jul-2003 10:52 atoyama
Curve Type : Average

Calibration File Names:
Level 1: /chem/gc7.i/11Apr2003.b/7041103.d
Level 2: /chem/gc7.i/11Apr2003.b/7041104.d
Level 3: /chem/gc7.i/11Apr2003.b/7041105.d
Level 4: /chem/gc7.i/11Apr2003.b/7041106.d
Level 5: /chem/gc7.i/11Apr2003.b/7041107.d
Level 6: /chem/gc7.i/11Apr2003.b/7041108.d

Compound	0.00500 Level 1	0.02700 Level 2	0.06700 Level 3	1.330 Level 4	6.651 Level 5	133.028 Level 6	___ RRF	% RSD
1 Methane	23473600	20391519	18145642	19641331	15588518	18737320	19329655	13.519
2 Ethylene	22286222	21228170	19317603	20626919	16449448	+++++	19981673	11.246
3 Ethane	23052444	20508100	18422992	19735760	15755809	+++++	19495021	13.781
4 Propene	23241100	22213288	19741557	20499315	15275004	23483000	20742211	14.761
5 Propane	24163100	21716018	19656431	20275345	15092413	22819091	20620400	15.365

Report Date: 01-Jun-2004 07:35

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc7.i Injection Date: 01-JUN-2004 07:18
Lab File ID: 7060101.d Init. Cal. Date(s): 11-APR-2003 11-APR-2003
Analysis Type: AIR Init. Cal. Times: 11:42 14:02
Lab Sample ID: 1068-2R-01 Quant Type: ESTD
Method: /chem/gc7.i/01Jun2004.b/38100411m5a.m

COMPOUND	RRF / AMOUNT	RF0.000	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Methane	19329655	21678629	0.100	-12.15218	30.00000	Averaged
2 Ethylene	19981673	23080564	0.010	-15.50867	30.00000	Averaged
3 Ethane	19495021	21909995	0.010	-12.38764	30.00000	Averaged

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0405498-08A

MODIFIED METHOD RSK-175 GC/FID

File Name:	7060102	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	6/1/04 07:39 AM

Compound	%Recovery
Methane	103

Container Type: NA - Not Applicable

0082

Samchuck, Joseph

From: Andrea Colby [acolby@katahdinlab.com]

Sent: Tuesday, July 20, 2004 9:19 AM

To: Samchuck, Joseph

Subject: RE: Key West SDG 3182 - Checked by Vexira - - Checked by Vexira -

Joe,
We took the hit off the form I. It now shows up on TIC table. Let me know if you need this sent hardcopy and if you need new EDD.
Thanks,
Andrea

-----Original Message-----
From: Samchuck, Joseph [mailto:SamchuckJ@ttnus.com]
Sent: Monday, July 19, 2004 2:57 PM
To: Andrea Colby
Subject: Key West SDG 3182 - Checked by Vexira -

Hi Andrea,

Can you please have someone review the spectra for the positive result reported for N-nitroso-di-n-propylamine in sample WU1552-7 (G01-MW-09-0504). I have rarely, if ever, seen this compound reported and I doubt that it is a legitimate hit.

Thanks.

Joseph Samchuck
Environmental Scientist
TETRA TECH NUS, Inc.

Foster Plaza VII
661 Andersen Drive
Pittsburgh, PA 15220
Telephone: (412) 921-8510
FAX: (412) 921-4040

samchuckj@ttnus.com
http://www.ttnus.com
http://www.tetratech.com

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 06/02/04
Analysis Date: 06/15/04
Report Date: 06/24/2004
Matrix: WATER
% Solids: NA

Lab ID: WG7874-1
Client ID: WG7874-Blank
SDG: CTO301318-2
Extracted by: JFC
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG7874
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	10	1.0	10	10	6
111-44-4	Bis(2-Chloroethyl)ether	U	10	1.0	10	10	3
95-57-8	2-Chlorophenol	U	10	1.0	10	10	5
541-73-1	1,3-Dichlorobenzene	U	10	1.0	10	10	3
106-46-7	1,4-Dichlorobenzene	U	10	1.0	10	10	3
95-50-1	1,2-Dichlorobenzene	U	10	1.0	10	10	3
95-48-7	2-Methylphenol	U	10	1.0	10	10	5
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	10	1.0	10	10	2
106-44-5	4-Methylphenol	U	10	1.0	10	10	5
621-64-7	N-Nitroso-di-n-propylamine	U	10	1.0	10	10	2
67-72-1	Hexachloroethane	U	10	1.0	10	10	2
98-95-3	Nitrobenzene	U	10	1.0	10	10	3
78-59-1	Isophorone	U	10	1.0	10	10	2
88-75-5	2-Nitrophenol	U	10	1.0	10	10	6
105-67-9	2,4-Dimethylphenol	U	10	1.0	10	10	8
111-91-1	Bis(2-Chloroethoxy)methane	U	10	1.0	10	10	3
120-83-2	2,4-Dichlorophenol	U	10	1.0	10	10	6
120-82-1	1,2,4-Trichlorobenzene	U	10	1.0	10	10	3
91-20-3	Naphthalene	U	10	1.0	10	10	3
106-47-8	4-Chloroaniline	U	10	1.0	10	10	4
87-68-3	Hexachlorobutadiene	U	10	1.0	10	10	4
59-50-7	4-Chloro-3-Methylphenol	U	10	1.0	10	10	6
91-57-6	2-Methylnaphthalene	U	10	1.0	10	10	5
77-47-4	Hexachlorocyclopentadiene	U	10	1.0	10	10	2
88-06-2	2,4,6-Trichlorophenol	U	10	1.0	10	10	8
95-95-4	2,4,5-Trichlorophenol	U	25	1.0	25	25	7
91-58-7	2-Chloronaphthalene	U	10	1.0	10	10	3
88-74-4	2-Nitroaniline	U	25	1.0	25	25	3
131-11-3	Dimethyl Phthalate	U	10	1.0	10	10	3
208-96-8	Acenaphthylene	U	10	1.0	10	10	3
606-20-2	2,6-Dinitrotoluene	U	10	1.0	10	10	3
99-09-2	3-Nitroaniline	U	25	1.0	25	25	3
83-32-9	Acenaphthene	U	10	1.0	10	10	2
51-28-5	2,4-Dinitrophenol	U	25	1.0	25	25	5
100-02-7	4-Nitrophenol	U	25	1.0	25	25	6
132-64-9	Dibenzofuran	U	10	1.0	10	10	4
121-14-2	2,4-Dinitrotoluene	U	10	1.0	10	10	4
84-66-2	Diethylphthalate	U	10	1.0	10	10	2
7005-72-3	4-Chlorophenyl-phenylether	U	10	1.0	10	10	3
86-73-7	Fluorene	U	10	1.0	10	10	3
100-01-6	4-Nitroaniline	U	25	1.0	25	25	5
534-52-1	4,6-Dinitro-2-Methylphenol	U	25	1.0	25	25	10
86-30-6	N-Nitrosodiphenylamine	U	10	1.0	10	10	8

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 06/02/04
Analysis Date: 06/15/04
Report Date: 06/24/2004
Matrix: WATER
% Solids: NA

Lab ID: WG7874-1
Client ID: WG7874-Blank
SDG: CTO301318-2
Extracted by: JFC
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG7874
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
101-55-3	4-Bromophenyl-phenylether	U	10	1.0	10	10	5
118-74-1	Hexachlorobenzene	U	10	1.0	10	10	4
87-86-5	Pentachlorophenol	U	25	1.0	25	25	9
85-01-8	Phenanthrene	U	10	1.0	10	10	3
120-12-7	Anthracene	U	10	1.0	10	10	3
86-74-8	Carbazole	U	10	1.0	10	10	4
84-74-2	Di-n-butylphthalate	U	10	1.0	10	10	2
206-44-0	Fluoranthene	U	10	1.0	10	10	3
129-00-0	Pyrene	U	10	1.0	10	10	4
85-68-7	Butylbenzylphthalate	U	10	1.0	10	10	3
91-94-1	3,3'-Dichlorobenzidine	U	10	1.0	10	10	4
56-55-3	Benzo(a)anthracene	U	10	1.0	10	10	3
218-01-9	Chrysene	U	10	1.0	10	10	3
117-81-7	bis(2-Ethylhexyl)phthalate	U	10	1.0	10	10	8
117-84-0	Di-n-octylphthalate	U	10	1.0	10	10	3
205-99-2	Benzo(b)fluoranthene	U	10	1.0	10	10	2
207-08-9	Benzo(k)fluoranthene	U	10	1.0	10	10	3
50-32-8	Benzo(a)pyrene	U	10	1.0	10	10	2
193-39-5	Indeno(1,2,3-cd)pyrene	U	10	1.0	10	10	2
53-70-3	Dibenzo(a,h)anthracene	U	10	1.0	10	10	2
191-24-2	Benzo(g,h,i)perylene	U	10	1.0	10	10	2
367-12-4	2-Fluorophenol		62%				
13127-88-3	Phenol-D6		38%				
4165-60-0	Nitrobenzene-D5		80%				
321-60-8	2-Fluorobiphenyl		79%				
118-79-6	2,4,6-Tribromophenol		57%				
1718-51-0	Terphenyl-D14		118%				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE ID

WG7874-Blank

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Matrix: (soil/water) WATER Lab Sample ID: WG7874-1

Sample wt/vol: 1.000 (g/L) L Lab File ID: U7738

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:06/02/04

Concentrated Extract Volume: 0.0010 (L) Date Analyzed: 06/15/04

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	6.21	80	J
2.		C14H22O ISOMER	16.60	6	J
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FORM I SV-TIC

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Lab File ID: UD724 DFTPP Injection Date: 06/14/04

Instrument ID: GCMS-U DFTPP Injection Time: 0947

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.2
68	Less than 2.0% of mass 69	0.6 (1.2)1
69	Less than 100.0% of mass 198	51.9
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	40.0 - 60.0% of mass 198	58.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	21.4
365	1.0 - 100.0% of mass 198	2.3
441	0.0 - 100.0% of mass 443	14.6 (82.3)2
442	40.0 - 100.0% of mass 198	91.1
443	17.0 - 23.0% of mass 442	17.8 (19.5)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050U0614	U7719	06/14/04	1146
02		SSTD200U0614	U7720	06/14/04	1237
03		SSTD160U0614	U7721	06/14/04	1324
04		SSTD120U0614	U7722	06/14/04	1411
05		SSTD020U0614	U7723	06/14/04	1458
06		SSTD010U0614	U7724	06/14/04	1544
07					
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FORM V SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-U Calibration Date(s): 06/14/04 06/14/04

Column: RTX-5SILMS ID: 0.25 (mm) Calibration Time(s): 1008 1544

LAB FILE ID: RF10: U7724 RF20: U7723 RF50: U7719
RF120: U7722 RF160: U7721 RF200: U7720

COMPOUND	RF10	RF20	RF50	RF120	RF160	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD A2	MAX %RSD OR R^2	MAX %RSD OR R^2
Phenol	1.179	1.293	1.316	1.332	1.290	1.227	AVRG		1.27298663		4.588	15.000
Bis(2-Chloroethyl)ether	1.017	1.070	1.068	1.091	1.035	1.040	AVRG		1.05360270		2.593	15.000
2-Chlorophenol	0.951	1.034	1.074	1.138	1.088	1.063	AVRG		1.05799900		5.907	15.000
1,3-Dichlorobenzene	1.004	1.072	1.146	1.180	1.128	1.109	AVRG		1.10655123		5.580	15.000
1,4-Dichlorobenzene	1.070	1.143	1.221	1.240	1.168	1.121	AVRG		1.16040269		5.463	15.000
1,2-Dichlorobenzene	0.978	1.040	1.199	1.199	1.113	1.052	AVRG		1.09686825		8.217	15.000
2-Methylphenol	0.861	0.949	1.046	1.055	1.024	0.997	AVRG		0.98871996		7.420	15.000
2,2'-Oxybis(1-Chloropropa	1.322	1.358	1.317	1.216	1.118	1.059	AVRG		1.23187886		9.909	15.000
4-Methylphenol	0.986	0.987	1.140	1.090	1.009	0.949	AVRG		1.02676662		7.090	15.000
N-Nitroso-di-n-propylamin	0.760	0.796	0.832	0.742	0.711	0.702	AVRG		0.75739084		6.596	15.000
Hexachloroethane	0.430	0.464	0.516	0.487	0.449	0.453	AVRG		0.46667594		6.607	15.000
Nitrobenzene	0.260	0.282	0.263	0.283	0.279	0.282	AVRG		0.27490868		3.774	15.000
Isophorone	0.450	0.476	0.469	0.481	0.486	0.484	AVRG		0.47437251		2.879	15.000
2-Nitrophenol	0.108	0.126	0.129	0.149	0.154	0.158	AVRG		0.13750438		14.451	15.000
2,4-Dimethylphenol	0.220	0.244	0.260	0.274	0.274	0.278	AVRG		0.25838114		8.700	15.000
Bis(2-Chloroethoxy)methan	0.318	0.341	0.336	0.357	0.350	0.340	AVRG		0.34015677		3.923	15.000
2,4-Dichlorophenol	0.160	0.183	0.198	0.223	0.234	0.235	AVRG		0.20557848		14.818	15.000
1,2,4-Trichlorobenzene	0.182	0.201	0.214	0.245	0.249	0.250	AVRG		0.22359676		12.937	15.000
Naphthalene	0.724	0.770	0.772	0.734	0.677	0.612	AVRG		0.71517646		8.563	15.000
4-Chloroaniline	0.267	0.291	0.307	0.318	0.338	0.326	AVRG		0.30796907		8.289	15.000
Hexachlorobutadiene	0.086	0.096	0.105	0.121	0.120	0.119	AVRG		0.10800178		13.545	15.000
4-Chloro-3-Methylphenol	0.178	0.197	0.208	0.218	0.232	0.210	AVRG		0.20723025		8.777	15.000
2-Methylnaphthalene	0.462	0.489	0.490	0.509	0.493	0.458	AVRG		0.48363265		4.056	15.000
Hexachlorocyclopentadiene	36624	86438	299910	834500	1224900	1586700	LINR	0.21554880	3.84562186		0.99394	0.99000
2,4,6-Trichlorophenol	63134	131550	400480	954650	1475200	1869800	LINR	0.16607310	3.29374166		0.99525	0.99000
2,4,5-Trichlorophenol	65578	139750	411520	1002800	1524900	1959600	LINR	0.16869180	3.15318353		0.99481	0.99000
2-Chloronaphthalene	0.739	0.845	0.910	0.961	0.884	0.873	AVRG		0.86874597		8.612	15.000
2-Nitroaniline	0.190	0.220	0.226	0.251	0.252	0.258	AVRG		0.23294109		11.219	15.000
Dimethyl Phthalate	0.753	0.825	0.872	1.009	0.982	0.972	AVRG		0.90215940		11.267	15.000
Acenaphthylene	1.117	1.238	1.325	1.439	1.329	1.264	AVRG		1.28541707		8.387	15.000
2,6-Dinitrotoluene	50331	103070	304680	736890	1120600	1403900	LINR	0.15082100	4.37073742		0.99648	0.99000
3-Nitroaniline	65078	127130	372920	882030	1408200	1699000	LINR	0.14892940	3.57540824		0.99595	0.99000
Acenaphthene	0.713	0.793	0.838	0.897	0.854	0.861	AVRG		0.82602751		7.870	15.000
2,4-Dinitrophenol	6041	24125	106180	317500	508220	653210	2ORDR	0.28891470	11.5332947	-5.0966934	0.99855	0.99000
4-Nitrophenol	20220	47742	151940	359430	543940	637030	LINR	0.12253560	9.37871165		0.99821	0.99000
Dibenzofuran	0.893	0.984	1.041	1.157	1.094	1.060	AVRG		1.03792388		8.809	15.000
2,4-Dinitrotoluene	68114	140940	407780	982740	1493000	1787000	LINR	0.12324700	3.38251740		0.99797	0.99000
Diethylphthalate	0.786	0.880	0.966	1.027	0.991	0.926	AVRG		0.92959132		9.332	15.000
4-Chlorophenyl-phenylethe	122060	238820	730310	1771700	2539400	3055500	LINR	0.10139240	1.97394650		0.99864	0.99000
Fluorene	0.746	0.850	0.952	0.972	0.916	0.880	AVRG		0.88600824		9.277	15.000
4-Nitroaniline	0.134	0.158	0.174	0.190	0.201	0.198	AVRG		0.17566505		14.940	15.000
4,6-Dinitro-2-Methylpheno	19201	48998	179970	488820	757010	922580	2ORDR	0.20524340	11.3590503	-5.3257017	0.99918	0.99000
N-Nitrosodiphenylamine	191540	377470	1134400	2591200	3701300	4401900	LINR	0.12681460	1.83105573		0.99591	0.99000
4-Bromophenyl-phenylether	63380	126320	396190	969720	1393600	1656000	LINR	0.15997070	4.83434211		0.99510	0.99000

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-U Calibration Date(s): 06/14/04 06/14/04

Column: RTX-5SILMS ID: 0.25 (mm) Calibration Time(s): 1008 1544

LAB FILE ID: RF10: U7724 RF20: U7723 RF50: U7719
RF120: U7722 RF160: U7721 RF200: U7720

COMPOUND	RF10	RF20	RF50	RF120	RF160	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD A2	MAX %RSD OR R^2	MAX %RSD OR R^2
Hexachlorobenzene	69081	136040	437310	1031600	1459800	1720100	LINR	0.13673090	4.64968292		0.99642	0.99000
Pentachlorophenol	13821	40100	177150	454740	787120	966150	2ORDR	0.23319560	11.8470919	-6.6632385	0.99900	0.99000
Phenanthrene	0.683	0.761	0.814	0.885	0.830	0.867	AVRG		0.80676184		9.236	15.000
Anthracene	0.646	0.739	0.800	0.883	0.840	0.842	AVRG		0.79155278		10.917	15.000
Carbazole	0.545	0.615	0.648	0.730	0.715	0.734	AVRG		0.66475231		11.402	15.000
Di-n-butylphthalate	0.857	0.974	1.007	1.038	0.950	0.923	AVRG		0.95821092		6.699	15.000
Fluoranthene	0.572	0.659	0.734	0.826	0.780	0.759	AVRG		0.72153415		12.729	15.000
Pyrene	0.869	1.050	1.099	1.066	1.058	1.131	AVRG		1.04552899		8.762	15.000
Butylbenzylphthalate	0.460	0.548	0.564	0.586	0.570	0.593	AVRG		0.55362906		8.790	15.000
3,3'-Dichlorobenzidine	0.208	0.212	0.214	0.195	0.204	0.204	AVRG		0.20612379		3.272	15.000
Benzo(a)anthracene	0.643	0.760	0.785	0.866	0.835	0.874	AVRG		0.79375664		10.856	15.000
Chrysene	0.626	0.750	0.759	0.805	0.769	0.810	AVRG		0.75302606		8.880	15.000
bis(2-Ethylhexyl)phthalat	0.630	0.736	0.773	0.807	0.765	0.808	AVRG		0.75328876		8.818	15.000
Di-n-octylphthalate	314320	615600	1847000	4362700	5424200	5668700	LINR	0.14227900	0.45626670		0.99699	0.99000
Benzo(b)fluoranthene	190140	349800	1061600	2752900	3765100	3956700	LINR	0.22861430	0.65047594		0.99018	0.99000
Benzo(k)fluoranthene	211380	402340	1142200	2922500	3555600	3902200	LINR	0.17823550	0.66939170		0.99309	0.99000
Benzo(a)pyrene	157970	308100	878700	2378800	3061200	3224600	LINR	0.20400930	0.79786237		0.99336	0.99000
Indeno(1,2,3-cd)pyrene	153960	320120	717900	2542100	3249900	3588500	2ORDR	0.21536390	0.95322570	-3.84e-002	0.99582	0.99000
Dibenzo(a,h)anthracene	124340	261800	711470	2194100	2794400	3090900	2ORDR	0.18941770	1.10845575	-5.11e-002	0.99826	0.99000
Benzo(g,h,i)perylene	126190	260660	679370	1923600	2410500	2669800	2ORDR	0.13543020	1.28695422	-6.68e-002	0.99892	0.99000
2-Fluorophenol	0.899	0.980	0.996	0.978	0.962	0.951	AVRG		0.96268175		3.531	15.000
Phenol-D6	1.162	1.258	1.307	1.300	1.289	1.272	AVRG		1.26469071		4.217	15.000
Nitrobenzene-D5	0.250	0.277	0.279	0.294	0.299	0.305	AVRG		0.28406467		6.935	15.000
2-Fluorobiphenyl	0.756	0.853	0.944	1.034	1.019	1.013	AVRG		0.93651041		11.883	15.000
2,4,6-Tribromophenol	27246	58102	210180	502980	793770	939780	LINR	0.16565730	6.36804789		0.99672	0.99000
Terphenyl-D14	0.542	0.662	0.773	0.742	0.772	0.802	AVRG		0.71565945		13.660	15.000

Average %RSD test result.

Calculate Average %RSD: 14.94229603
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM VI SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Lab File ID: UD728 DFTPP Injection Date: 06/17/04

Instrument ID: GCMS-U DFTPP Injection Time: 0832

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.6
68	Less than 2.0% of mass 69	0.8 (1.7)1
69	Less than 100.0% of mass 198	47.6
70	Less than 2.0% of mass 69	0.3 (0.7)1
127	40.0 - 60.0% of mass 198	56.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	21.3
365	1.0 - 100.0% of mass 198	2.0
441	0.0 - 100.0% of mass 443	13.6 (80.3)2
442	40.0 - 100.0% of mass 198	86.7
443	17.0 - 23.0% of mass 442	16.9 (19.6)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050U0617	U7780	06/17/04	1004
02		SSTD200U0617	U7781	06/17/04	1055
03		SSTD160U0617	U7782	06/17/04	1142
04		SSTD120U0617	U7783	06/17/04	1228
05		SSTD020U0617	U7784	06/17/04	1315
06		SSTD010U0617	U7785	06/17/04	1410
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FORM V SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-U Calibration Date(s): 06/17/04 06/17/04

Column: RTX-5SILMS ID: 0.25 (mm) Calibration Time(s): 1004 1410

LAB FILE ID: RF10: U7785 RF20: U7784 RF50: U7780
RF120: U7783 RF160: U7782 RF200: U7781

COMPOUND	RF10	RF20	RF50	RF120	RF160	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	COEFFICENTS A2	%RSD OR R^2	MAX %RSD OR R^2
Phenol	1.539	1.356	1.545	1.498	1.370	1.468	AVRG		1.46257255		5.610	15.000
Bis(2-Chloroethyl)ether	1.263	1.187	1.285	1.286	1.183	1.262	AVRG		1.24434010		3.787	15.000
2-Chlorophenol	1.173	1.129	1.290	1.278	1.193	1.251	AVRG		1.21894924		5.263	15.000
1,3-Dichlorobenzene	1.247	1.203	1.379	1.342	1.248	1.321	AVRG		1.29005123		5.243	15.000
1,4-Dichlorobenzene	1.323	1.270	1.456	1.416	1.277	1.349	AVRG		1.34857677		5.554	15.000
1,2-Dichlorobenzene	1.230	1.181	1.446	1.352	1.204	1.263	AVRG		1.27922917		7.922	15.000
2-Methylphenol	1.123	1.040	1.210	1.167	1.093	1.190	AVRG		1.13695751		5.640	15.000
2,2'-Oxybis(1-Chloropropa	1.611	1.500	1.590	1.399	1.251	1.333	AVRG		1.44739515		9.949	15.000
4-Methylphenol	1.208	1.098	1.288	1.248	1.120	1.183	AVRG		1.19081271		6.146	15.000
N-Nitroso-di-n-propylamin	0.929	0.898	0.997	0.904	0.832	0.902	AVRG		0.91041906		5.875	15.000
Hexachloroethane	0.496	0.493	0.589	0.564	0.518	0.557	AVRG		0.53625698		7.396	15.000
Nitrobenzene	0.296	0.283	0.312	0.309	0.292	0.308	AVRG		0.30006290		3.950	15.000
Isophorone	0.522	0.508	0.569	0.543	0.515	0.550	AVRG		0.53458538		4.350	15.000
2-Nitrophenol	0.127	0.133	0.158	0.168	0.166	0.176	AVRG		0.15484233		13.068	15.000
2,4-Dimethylphenol	0.272	0.253	0.313	0.304	0.304	0.308	AVRG		0.29226868		8.298	15.000
Bis(2-Chloroethoxy)methan	0.368	0.360	0.409	0.398	0.365	0.389	AVRG		0.38166331		5.251	15.000
2,4-Dichlorophenol	0.191	0.194	0.244	0.257	0.250	0.267	AVRG		0.23384193		13.987	15.000
1,2,4-Trichlorobenzene	0.216	0.216	0.261	0.278	0.264	0.279	AVRG		0.25234839		11.516	15.000
Naphthalene	0.836	0.811	0.918	0.804	0.696	0.720	AVRG		0.79769461		10.127	15.000
4-Chloroaniline	0.310	0.304	0.371	0.352	0.340	0.373	AVRG		0.34165169		8.685	15.000
Hexachlorobutadiene	0.103	0.104	0.128	0.137	0.127	0.131	AVRG		0.12191508		11.814	15.000
4-Chloro-3-Methylphenol	0.209	0.205	0.249	0.248	0.245	0.269	AVRG		0.23743806		10.559	15.000
2-Methylnaphthalene	0.547	0.546	0.594	0.575	0.528	0.564	AVRG		0.55931256		4.243	15.000
Hexachlorocyclopentadiene	23439	68334	250200	849700	1107200	1286400	LINR	0.19312100	4.05775711		0.99431	0.99000
2,4,6-Trichlorophenol	55788	141580	412480	1131600	1540200	1811400	LINR	0.12416370	2.96546512		0.99640	0.99000
2,4,5-Trichlorophenol	58463	147550	425520	1212300	1622600	1903000	LINR	0.12537640	2.81134692		0.99639	0.99000
2-Chloronaphthalene	0.890	0.936	1.113	1.064	0.934	0.960	AVRG		0.98282084		8.776	15.000
2-Nitroaniline	0.224	0.230	0.266	0.271	0.264	0.290	AVRG		0.25774021		9.856	15.000
Dimethyl Phthalate	0.921	0.961	1.103	1.139	1.044	1.110	AVRG		1.04616791		8.438	15.000
Acenaphthylene	1.320	1.377	1.606	1.568	1.407	1.437	AVRG		1.45249657		7.680	15.000
2,6-Dinitrotoluene	43702	112640	309830	846020	1159000	1405300	LINR	0.13838980	3.86357856		0.99375	0.99000
3-Nitroaniline	44768	123460	341860	936180	1366600	1706900	2ORDR	5.566e-002	4.40269063	-0.8125327	0.99944	0.99000
Acenaphthene	0.864	0.887	1.023	1.020	0.909	0.943	AVRG		0.94100039		7.173	15.000
2,4-Dinitrophenol	4582	22131	104230	359120	503340	661070	2ORDR	0.25506870	11.1550952	-5.5896754	0.99758	0.99000
4-Nitrophenol	16285	42878	142800	358520	524160	671270	2ORDR	5.242e-002	11.4593767	-5.6290724	0.99814	0.99000
Dibenzofuran	1.057	1.102	1.283	1.278	1.179	1.245	AVRG		1.19056007		7.958	15.000
2,4-Dinitrotoluene	58555	151680	419300	1116100	1590400	1980200	2ORDR	3.132e-002	3.71584648	-0.5513869	0.99889	0.99000
Diethylphthalate	0.962	1.014	1.176	1.154	1.036	1.099	AVRG		1.07341350		7.780	15.000
4-Chlorophenyl-phenylethe	0.398	0.422	0.520	0.564	0.533	0.546	AVRG		0.49731396		13.977	15.000
Fluorene	0.902	0.958	1.126	1.066	0.958	1.039	AVRG		1.00839073		8.255	15.000
4-Nitroaniline	32052	86790	259600	598980	944960	1254800	2ORDR	-1.19e-002	6.93201581	-2.2568805	0.99773	0.99000
4,6-Dinitro-2-Methylpheno	14398	48568	177720	516170	746410	1027600	2ORDR	0.18125070	10.2269597	-4.4638028	0.99824	0.99000
N-Nitrosodiphenylamine	0.458	0.477	0.553	0.606	0.554	0.571	AVRG		0.53642216		10.658	15.000
4-Bromophenyl-phenylether	55861	139080	410200	1084500	1410600	1667200	LINR	6.738e-002	4.49443523		0.99601	0.99000

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-U Calibration Date(s): 06/17/04 06/17/04

Column: RTX-5SILMS ID: 0.25 (mm) Calibration Time(s): 1004 1410

LAB FILE ID: RF10: U7785 RF20: U7784 RF50: U7780
RF120: U7783 RF160: U7782 RF200: U7781

								COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF10	RF20	RF50	RF120	RF160	RF200	CURVE	A0	A1	A2	OR R^2	OR R^2	
Hexachlorobenzene	0.160	0.178	0.215	0.245	0.222	0.225	AVRG		0.20767564		15.477	15.000	<
Pentachlorophenol	12052	38461	182240	491620	768400	1062100	2ORDR	0.20140800	10.4056944	-4.9809147	0.99945	0.99000	
Phenanthrene	0.828	0.853	0.997	1.007	0.904	0.931	AVRG		0.91998721		7.960	15.000	
Anthracene	0.787	0.823	0.980	0.997	0.914	0.938	AVRG		0.90662156		9.337	15.000	
Carbazole	0.616	0.611	0.728	0.748	0.746	0.820	AVRG		0.71150367		11.540	15.000	
Di-n-butylphthalate	1.077	1.146	1.278	1.177	1.055	1.086	AVRG		1.13659009		7.324	15.000	
Fluoranthene	0.675	0.686	0.846	0.843	0.800	0.887	AVRG		0.78953595		11.260	15.000	
Pyrene	1.290	1.428	1.488	1.487	1.346	1.234	AVRG		1.37880031		7.666	15.000	
Butylbenzylphthalate	0.678	0.748	0.790	0.811	0.740	0.714	AVRG		0.74657266		6.509	15.000	
3,3'-Dichlorobenzidine	27223	62517	231740	489800	804020	1244000	LINR	0.14099480	4.58046602		0.99233	0.99000	
Benzo(a)anthracene	0.865	0.875	1.012	1.068	0.976	0.974	AVRG		0.96176014		8.200	15.000	
Chrysene	0.841	0.856	0.973	0.996	0.904	0.881	AVRG		0.90868598		6.934	15.000	
bis(2-Ethylhexyl)phthalat	0.941	1.037	1.133	1.122	1.023	0.959	AVRG		1.03578282		7.706	15.000	
Di-n-octylphthalate	2.160	2.507	2.741	2.914	2.781	2.928	AVRG		2.67178669		10.971	15.000	
Benzo(b)fluoranthene	110280	248940	849880	2188900	2890600	4062400	LINR	0.16479740	0.57405160		0.99342	0.99000	
Benzo(k)fluoranthene	135040	270210	974900	2142000	2970500	4316600	2ORDR	1.652e-002	0.74092218	-2.18e-002	0.99854	0.99000	
Benzo(a)pyrene	90582	199490	704340	1764100	2378200	3309700	LINR	0.16358530	0.70412124		0.99416	0.99000	
Indeno(1,2,3-cd)pyrene	76676	174750	632560	1559700	2459300	3072300	LINR	0.19117980	0.73454938		0.99383	0.99000	
Dibenzo(a,h)anthracene	61092	141630	514680	1511300	2108700	2635400	LINR	0.18096480	0.84383030		0.99594	0.99000	
Benzo(g,h,i)perylene	64792	141550	491360	1374800	1840600	2211500	LINR	0.17501470	0.97735078		0.99536	0.99000	
2-Fluorophenol	1.122	1.059	1.179	1.115	1.067	1.124	AVRG		1.11092856		3.945	15.000	
Phenol-D6	1.459	1.353	1.537	1.444	1.373	1.453	AVRG		1.43668705		4.611	15.000	
Nitrobenzene-D5	0.297	0.284	0.328	0.320	0.315	0.329	AVRG		0.31222217		5.769	15.000	
2-Fluorobiphenyl	0.968	0.974	1.181	1.183	1.106	1.127	AVRG		1.08994819		8.886	15.000	
2,4,6-Tribromophenol	24425	61140	213660	537590	774340	958890	2ORDR	7.153e-002	7.43521423	-2.1251628	0.99815	0.99000	
Terphenyl-D14	0.858	0.943	1.075	1.040	0.977	0.882	AVRG		0.96260000		8.899	15.000	

Average %RSD test result.

Calculate Average %RSD: 14.34511375
Maximum Average %RSD: 15.00000000

Note: Passes Average %RSD Test.

FORM VI SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Lab File ID: UD725 DFTPP Injection Date: 06/14/04

Instrument ID: GCMS-U DFTPP Injection Time: 1631

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.2
68	Less than 2.0% of mass 69	0.7 (1.4)1
69	Less than 100.0% of mass 198	49.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	57.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	22.3
365	1.0 - 100.0% of mass 198	2.4
441	0.0 - 100.0% of mass 443	15.5 (83.2)2
442	40.0 - 100.0% of mass 198	95.8
443	17.0 - 23.0% of mass 442	18.6 (19.4)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050U0614	U7725	06/14/04	1653
02	WG7874-BLANK	WG7874-1	U7738	06/15/04	0259
03	WG7874-LCS	WG7874-2	U7739	06/15/04	0345
04					
05					
06					
07					
08					
09					
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13					
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16					
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18					
19					
20					

FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-U Calibration Date: 06/14/04 Time: 1653

Lab File ID: U7725 Init. Calib. Date(s): 06/14/04 06/14/04

Init. Calib. Times: 1008 1544

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Phenol	1.2730000	1.2277000	1.2277000	0.01	-3.56	20.00	AVRG
Bis(2-Chloroethyl)ether	1.0540000	1.0233000	1.0233000	0.01	-2.91	100.00	AVRG
2-Chlorophenol	1.0580000	1.0263000	1.0263000	0.01	-3.00	100.00	AVRG
1,3-Dichlorobenzene	1.1060000	1.1059000	1.1059000	0.01	-0.01	100.00	AVRG
1,4-Dichlorobenzene	1.1600000	1.1629000	1.1629000	0.01	0.25	20.00	AVRG
1,2-Dichlorobenzene	1.0970000	1.1329000	1.1329000	0.01	3.27	100.00	AVRG
2-Methylphenol	0.9890000	0.9592800	0.9592800	0.01	-3.00	100.00	AVRG
2,2'-Oxybis(1-Chloropropane)	1.2320000	1.2169000	1.2169000	0.01	-1.22	100.00	AVRG
4-Methylphenol	1.0270000	1.0439000	1.0439000	0.01	1.64	100.00	AVRG
N-Nitroso-di-n-propylamine	0.7570000	0.7664700	0.7664700	0.05	1.25	100.00	AVRG
Hexachloroethane	0.4660000	0.4885400	0.4885400	0.01	4.84	100.00	AVRG
Nitrobenzene	0.2750000	0.2592400	0.2592400	0.01	-5.73	100.00	AVRG
Isophorone	0.4740000	0.4520200	0.4520200	0.01	-4.64	100.00	AVRG
2-Nitrophenol	0.1370000	0.1283000	0.1283000	0.01	-6.35	20.00	AVRG
2,4-Dimethylphenol	0.2580000	0.2456600	0.2456600	0.01	-4.78	100.00	AVRG
Bis(2-Chloroethoxy)methane	0.3400000	0.3268000	0.3268000	0.01	-3.88	100.00	AVRG
2,4-Dichlorophenol	0.2060000	0.1896200	0.1896200	0.01	-7.95	20.00	AVRG
1,2,4-Trichlorobenzene	0.2240000	0.2104800	0.2104800	0.01	-6.04	100.00	AVRG
Naphthalene	0.7150000	0.7496200	0.7496200	0.01	4.84	100.00	AVRG
4-Chloroaniline	0.3080000	0.3025600	0.3025600	0.01	-1.77	100.00	AVRG
Hexachlorobutadiene	0.1080000	0.1040000	0.1040000	0.01	-3.70	20.00	AVRG
4-Chloro-3-Methylphenol	0.2070000	0.1928800	0.1928800	0.01	-6.82	20.00	AVRG
2-Methylnaphthalene	0.4840000	0.4762700	0.4762700	0.01	-1.60	100.00	AVRG
Hexachlorocyclopentadiene	40.514000	50.000000	0.1658600	0.05	-18.97	100.00	LINR
2,4,6-Trichlorophenol	42.548000	50.000000	0.2180200	0.01	-14.90	20.00	LINR
2,4,5-Trichlorophenol	41.229000	50.000000	0.2187100	0.01	-17.54	100.00	LINR
2-Chloronaphthalene	0.8690000	0.9016900	0.9016900	0.01	3.76	100.00	AVRG
2-Nitroaniline	0.2330000	0.2222400	0.2222400	0.01	-4.62	100.00	AVRG
Dimethyl Phthalate	0.9020000	0.8462100	0.8462100	0.01	-6.18	100.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-U Calibration Date: 06/14/04 Time: 1653

Lab File ID: U7725 Init. Calib. Date(s): 06/14/04 06/14/04

Init. Calib. Times: 1008 1544

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Acenaphthylene	1.2850000	1.2955000	1.2955000	0.01	0.82	100.00	AVRG
2,6-Dinitrotoluene	42.534000	50.000000	0.1670200	0.01	-14.93	100.00	LINR
3-Nitroaniline	42.746000	50.000000	0.2057900	0.01	-14.51	100.00	LINR
Acenaphthene	0.8260000	0.8272600	0.8272600	0.01	0.15	20.00	AVRG
2,4-Dinitrophenol	41.907000	50.000000	5.43e-002	0.05	-16.19	100.00	2RDR
4-Nitrophenol	42.648000	50.000000	8.05e-002	0.05	-14.70	100.00	LINR
Dibenzofuran	1.0380000	1.0127000	1.0127000	0.01	-2.44	100.00	AVRG
2,4-Dinitrotoluene	42.858000	50.000000	0.2242600	0.01	-14.28	100.00	LINR
Diethylphthalate	0.9290000	0.9079900	0.9079900	0.01	-2.26	100.00	AVRG
4-Chlorophenyl-phenylether	43.255000	50.000000	0.3971600	0.01	-13.49	100.00	LINR
Fluorene	0.8860000	0.9117900	0.9117900	0.01	2.91	100.00	AVRG
4-Nitroaniline	0.1760000	0.1656300	0.1656300	0.01	-5.89	100.00	AVRG
4,6-Dinitro-2-Methylphenol	44.137000	50.000000	6.58e-002	0.01	-11.73	100.00	2RDR
N-Nitrosodiphenylamine	45.132000	50.000000	0.4375500	0.01	-9.74	20.00	LINR
4-Bromophenyl-phenylether	43.252000	50.000000	0.1524600	0.01	-13.50	100.00	LINR
Hexachlorobenzene	43.982000	50.000000	0.1656600	0.01	-12.04	100.00	LINR
Pentachlorophenol	43.589000	50.000000	6.04e-002	0.01	-12.82	20.00	2RDR
Phenanthrene	0.8070000	0.7963700	0.7963700	0.01	-1.32	100.00	AVRG
Anthracene	0.7920000	0.7810400	0.7810400	0.01	-1.38	100.00	AVRG
Carbazole	0.6640000	0.6295700	0.6295700	0.01	-5.18	100.00	AVRG
Di-n-butylphthalate	0.9580000	0.9585800	0.9585800	0.01	0.06	100.00	AVRG
Fluoranthene	0.7220000	0.6714800	0.6714800	0.01	-7.00	20.00	AVRG
Pyrene	1.0460000	1.0782000	1.0782000	0.01	3.08	100.00	AVRG
Butylbenzylphthalate	0.5540000	0.5384000	0.5384000	0.01	-2.82	100.00	AVRG
3,3'-Dichlorobenzidine	0.2060000	0.2076300	0.2076300	0.01	0.79	100.00	AVRG
Benzo(a)anthracene	0.7940000	0.7656200	0.7656200	0.01	-3.57	100.00	AVRG
Chrysene	0.7530000	0.7654700	0.7654700	0.01	1.66	100.00	AVRG
bis(2-Ethylhexyl)phthalate	0.7530000	0.7476400	0.7476400	0.01	-0.71	100.00	AVRG
Di-n-octylphthalate	43.331000	50.000000	1.6499000	0.01	-13.34	20.00	LINR

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-U Calibration Date: 06/14/04 Time: 1653

Lab File ID: U7725 Init. Calib. Date(s): 06/14/04 06/14/04

Init. Calib. Times: 1008 1544

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Benzo(b)fluoranthene	40.231000	50.000000	0.9558000	0.01	-19.54	100.00	LINR
Benzo(k)fluoranthene	43.309000	50.000000	1.0810000	0.01	-13.38	100.00	LINR
Benzo(a)pyrene	41.270000	50.000000	0.8299500	0.01	-17.46	20.00	LINR
Indeno(1,2,3-cd)pyrene	46.890000	50.000000	0.8384400	0.01	-6.22	100.00	2RDR
Dibenzo(a,h)anthracene	44.343000	50.000000	0.6908700	0.01	-11.31	100.00	2RDR
Benzo(g,h,i)perylene	46.136000	50.000000	0.6611500	0.01	-7.73	100.00	2RDR
2-Fluorophenol	0.9630000	0.9697300	0.9697300	0.01	0.70	100.00	AVRG
Phenol-D6	1.2650000	1.2404000	1.2404000	0.01	-1.94	100.00	AVRG
Nitrobenzene-D5	0.2840000	0.2739500	0.2739500	0.01	-3.54	100.00	AVRG
2-Fluorobiphenyl	0.9360000	0.9423300	0.9423300	0.01	0.68	100.00	AVRG
2,4,6-Tribromophenol	40.089000	50.000000	0.1051000	0.01	-19.82	100.00	LINR
Terphenyl-D14	0.7160000	0.7460800	0.7460800	0.01	4.20	100.00	AVRG

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Lab File ID: UD726 DFTPP Injection Date: 06/15/04

Instrument ID: GCMS-U DFTPP Injection Time: 1122

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.4
68	Less than 2.0% of mass 69	0.6 (1.2)1
69	Less than 100.0% of mass 198	51.9
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	57.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	20.5
365	1.0 - 100.0% of mass 198	2.0
441	0.0 - 100.0% of mass 443	13.9 (83.6)2
442	40.0 - 100.0% of mass 198	86.8
443	17.0 - 23.0% of mass 442	16.6 (19.1)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050U0615	U7746	06/15/04	1146
02	WG7874-LCSD	WG7874-3RA	U7747	06/15/04	1240
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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15					
16					
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18					
19					
20					

FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-U Calibration Date: 06/15/04 Time: 1146

Lab File ID: U7746 Init. Calib. Date(s): 06/14/04 06/14/04

Init. Calib. Times: 1008 1544

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Phenol	1.2730000	1.3323000	1.3323000	0.01	4.66	20.00	AVRG
Bis(2-Chloroethyl)ether	1.0540000	1.0740000	1.0740000	0.01	1.90	100.00	AVRG
2-Chlorophenol	1.0580000	1.0436000	1.0436000	0.01	-1.36	100.00	AVRG
1,3-Dichlorobenzene	1.1060000	1.0992000	1.0992000	0.01	-0.61	100.00	AVRG
1,4-Dichlorobenzene	1.1600000	1.1645000	1.1645000	0.01	0.39	20.00	AVRG
1,2-Dichlorobenzene	1.0970000	1.1601000	1.1601000	0.01	5.75	100.00	AVRG
2-Methylphenol	0.9890000	0.9607900	0.9607900	0.01	-2.85	100.00	AVRG
2,2'-Oxybis(1-Chloropropane)	1.2320000	1.2687000	1.2687000	0.01	2.98	100.00	AVRG
4-Methylphenol	1.0270000	0.9950500	0.9950500	0.01	-3.11	100.00	AVRG
N-Nitroso-di-n-propylamine	0.7570000	0.7865500	0.7865500	0.05	3.90	100.00	AVRG
Hexachloroethane	0.4660000	0.4630000	0.4630000	0.01	-0.64	100.00	AVRG
Nitrobenzene	0.2750000	0.2637100	0.2637100	0.01	-4.10	100.00	AVRG
Isophorone	0.4740000	0.4660000	0.4660000	0.01	-1.69	100.00	AVRG
2-Nitrophenol	0.1370000	0.1283300	0.1283300	0.01	-6.33	20.00	AVRG
2,4-Dimethylphenol	0.2580000	0.2548400	0.2548400	0.01	-1.22	100.00	AVRG
Bis(2-Chloroethoxy)methane	0.3400000	0.3324700	0.3324700	0.01	-2.21	100.00	AVRG
2,4-Dichlorophenol	0.2060000	0.1926800	0.1926800	0.01	-6.47	20.00	AVRG
1,2,4-Trichlorobenzene	0.2240000	0.2082400	0.2082400	0.01	-7.04	100.00	AVRG
Naphthalene	0.7150000	0.7575100	0.7575100	0.01	5.94	100.00	AVRG
4-Chloroaniline	0.3080000	0.3026400	0.3026400	0.01	-1.74	100.00	AVRG
Hexachlorobutadiene	0.1080000	0.1012300	0.1012300	0.01	-6.27	20.00	AVRG
4-Chloro-3-Methylphenol	0.2070000	0.2043400	0.2043400	0.01	-1.28	20.00	AVRG
2-Methylnaphthalene	0.4840000	0.4752100	0.4752100	0.01	-1.82	100.00	AVRG
Hexachlorocyclopentadiene	37.801000	50.000000	0.1517500	0.05	-24.40	100.00	LINR
2,4,6-Trichlorophenol	43.658000	50.000000	0.2247600	0.01	-12.68	20.00	LINR
2,4,5-Trichlorophenol	44.314000	50.000000	0.2382700	0.01	-11.37	100.00	LINR
2-Chloronaphthalene	0.8690000	0.9012200	0.9012200	0.01	3.71	100.00	AVRG
2-Nitroaniline	0.2330000	0.2238100	0.2238100	0.01	-3.94	100.00	AVRG
Dimethyl Phthalate	0.9020000	0.8694300	0.8694300	0.01	-3.61	100.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-U Calibration Date: 06/15/04 Time: 1146

Lab File ID: U7746 Init. Calib. Date(s): 06/14/04 06/14/04

Init. Calib. Times: 1008 1544

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Acenaphthylene	1.2850000	1.2923000	1.2923000	0.01	0.57	100.00	AVRG
2,6-Dinitrotoluene	43.134000	50.000000	0.1697700	0.01	-13.73	100.00	LINR
3-Nitroaniline	42.786000	50.000000	0.2060100	0.01	-14.43	100.00	LINR
Acenaphthene	0.8260000	0.8369100	0.8369100	0.01	1.32	20.00	AVRG
2,4-Dinitrophenol	41.730000	50.000000	5.39e-002	0.05	-16.54	100.00	2RDR
4-Nitrophenol	42.778000	50.000000	8.08e-002	0.05	-14.44	100.00	LINR
Dibenzofuran	1.0380000	1.0274000	1.0274000	0.01	-1.02	100.00	AVRG
2,4-Dinitrotoluene	44.558000	50.000000	0.2343100	0.01	-10.88	100.00	LINR
Diethylphthalate	0.9290000	0.9401700	0.9401700	0.01	1.20	100.00	AVRG
4-Chlorophenyl-phenylether	43.724000	50.000000	0.4019200	0.01	-12.55	100.00	LINR
Fluorene	0.8860000	0.9169400	0.9169400	0.01	3.49	100.00	AVRG
4-Nitroaniline	0.1760000	0.1646800	0.1646800	0.01	-6.43	100.00	AVRG
4,6-Dinitro-2-Methylphenol	43.790000	50.000000	6.51e-002	0.01	-12.42	100.00	2RDR
N-Nitrosodiphenylamine	44.763000	50.000000	0.4335200	0.01	-10.47	20.00	LINR
4-Bromophenyl-phenylether	42.585000	50.000000	0.1497000	0.01	-14.83	100.00	LINR
Hexachlorobenzene	43.008000	50.000000	0.1614700	0.01	-13.98	100.00	LINR
Pentachlorophenol	46.574000	50.000000	6.59e-002	0.01	-6.85	20.00	2RDR
Phenanthrene	0.8070000	0.8015600	0.8015600	0.01	-0.67	100.00	AVRG
Anthracene	0.7920000	0.7801900	0.7801900	0.01	-1.49	100.00	AVRG
Carbazole	0.6640000	0.6283700	0.6283700	0.01	-5.37	100.00	AVRG
Di-n-butylphthalate	0.9580000	1.0182000	1.0182000	0.01	6.28	100.00	AVRG
Fluoranthene	0.7220000	0.7085700	0.7085700	0.01	-1.86	20.00	AVRG
Pyrene	1.0460000	1.1618000	1.1618000	0.01	11.07	100.00	AVRG
Butylbenzylphthalate	0.5540000	0.6196100	0.6196100	0.01	11.84	100.00	AVRG
3,3'-Dichlorobenzidine	0.2060000	0.1966500	0.1966500	0.01	-4.54	100.00	AVRG
Benzo(a)anthracene	0.7940000	0.7867300	0.7867300	0.01	-0.92	100.00	AVRG
Chrysene	0.7530000	0.7712100	0.7712100	0.01	2.42	100.00	AVRG
bis(2-Ethylhexyl)phthalate	0.7530000	0.8780900	0.8780900	0.01	16.61	100.00	AVRG
Di-n-octylphthalate	53.242000	50.000000	2.0844000	0.01	6.48	20.00	LINR

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-U Calibration Date: 06/15/04 Time: 1146

Lab File ID: U7746 Init. Calib. Date(s): 06/14/04 06/14/04

Init. Calib. Times: 1008 1544

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Benzo(b)fluoranthene	43.209000	50.000000	1.0474000	0.01	-13.58	100.00	LINR
Benzo(k)fluoranthene	44.120000	50.000000	1.1052000	0.01	-11.76	100.00	LINR
Benzo(a)pyrene	42.208000	50.000000	0.8534700	0.01	-15.58	20.00	LINR
Indeno(1,2,3-cd)pyrene	39.461000	50.000000	0.6697700	0.01	-21.08	100.00	2RDR
Dibenzo(a,h)anthracene	42.384000	50.000000	0.6525600	0.01	-15.23	100.00	2RDR
Benzo(g,h,i)perylene	44.311000	50.000000	0.6302000	0.01	-11.38	100.00	2RDR
2-Fluorophenol	0.9630000	0.9745200	0.9745200	0.01	1.20	100.00	AVRG
Phenol-D6	1.2650000	1.2639000	1.2639000	0.01	-0.09	100.00	AVRG
Nitrobenzene-D5	0.2840000	0.2741500	0.2741500	0.01	-3.47	100.00	AVRG
2-Fluorobiphenyl	0.9360000	0.9591300	0.9591300	0.01	2.47	100.00	AVRG
2,4,6-Tribromophenol	41.653000	50.000000	0.1100100	0.01	-16.69	100.00	LINR
Terphenyl-D14	0.7160000	0.8054800	0.8054800	0.01	12.50	100.00	AVRG

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Lab File ID: UD731 DFTPP Injection Date: 06/19/04

Instrument ID: GCMS-U DFTPP Injection Time: 1010

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	38.7
68	Less than 2.0% of mass 69	0.7 (1.5)1
69	Less than 100.0% of mass 198	46.7
70	Less than 2.0% of mass 69	0.1 (0.3)1
127	40.0 - 60.0% of mass 198	57.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	21.0
365	1.0 - 100.0% of mass 198	2.2
441	0.0 - 100.0% of mass 443	13.7 (81.5)2
442	40.0 - 100.0% of mass 198	86.0
443	17.0 - 23.0% of mass 442	16.8 (19.6)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050U0619	U7803	06/19/04	1137
02	G01-MW-07-0504	WU1552-3	U7805	06/19/04	1415
03	G01-MW-09-0504	WU1552-7	U7806	06/19/04	1502
04	KW-DUP-02-0504	WU1552-9	U7807	06/19/04	1548
05					
06					
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FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-U Calibration Date: 06/19/04 Time: 1137

Lab File ID: U7803 Init. Calib. Date(s): 06/17/04 06/17/04

Init. Calib. Times: 1004 1410

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Phenol	1.4630000	1.5013000	1.5013000	0.01	2.62	20.00	AVRG
Bis(2-Chloroethyl)ether	1.2440000	1.2600000	1.2600000	0.01	1.29	100.00	AVRG
2-Chlorophenol	1.2190000	1.2601000	1.2601000	0.01	3.37	100.00	AVRG
1,3-Dichlorobenzene	1.2900000	1.3223000	1.3223000	0.01	2.50	100.00	AVRG
1,4-Dichlorobenzene	1.3480000	1.3874000	1.3874000	0.01	2.92	20.00	AVRG
1,2-Dichlorobenzene	1.2790000	1.2775000	1.2775000	0.01	-0.12	100.00	AVRG
2-Methylphenol	1.1370000	1.1971000	1.1971000	0.01	5.28	100.00	AVRG
2,2'-Oxybis(1-Chloropropane)	1.4470000	1.4175000	1.4175000	0.01	-2.04	100.00	AVRG
4-Methylphenol	1.1910000	1.2601000	1.2601000	0.01	5.80	100.00	AVRG
N-Nitroso-di-n-propylamine	0.9100000	0.9212400	0.9212400	0.05	1.24	100.00	AVRG
Hexachloroethane	0.5360000	0.5370300	0.5370300	0.01	0.19	100.00	AVRG
Nitrobenzene	0.3000000	0.3028900	0.3028900	0.01	0.96	100.00	AVRG
Isophorone	0.5340000	0.5509000	0.5509000	0.01	3.16	100.00	AVRG
2-Nitrophenol	0.1550000	0.1651100	0.1651100	0.01	6.52	20.00	AVRG
2,4-Dimethylphenol	0.2920000	0.3081800	0.3081800	0.01	5.54	100.00	AVRG
Bis(2-Chloroethoxy)methane	0.3820000	0.3926000	0.3926000	0.01	2.77	100.00	AVRG
2,4-Dichlorophenol	0.2340000	0.2428200	0.2428200	0.01	3.77	20.00	AVRG
1,2,4-Trichlorobenzene	0.2520000	0.2479000	0.2479000	0.01	-1.63	100.00	AVRG
Naphthalene	0.7980000	0.8695500	0.8695500	0.01	8.97	100.00	AVRG
4-Chloroaniline	0.3420000	0.3673800	0.3673800	0.01	7.42	100.00	AVRG
Hexachlorobutadiene	0.1220000	0.1151000	0.1151000	0.01	-5.66	20.00	AVRG
4-Chloro-3-Methylphenol	0.2380000	0.2600900	0.2600900	0.01	9.28	20.00	AVRG
2-Methylnaphthalene	0.5590000	0.5559300	0.5559300	0.01	-0.55	100.00	AVRG
Hexachlorocyclopentadiene	47.689000	50.000000	0.1969800	0.05	-4.62	100.00	LINR
2,4,6-Trichlorophenol	47.751000	50.000000	0.2885500	0.01	-4.50	20.00	LINR
2,4,5-Trichlorophenol	49.052000	50.000000	0.3132800	0.01	-1.90	100.00	LINR
2-Chloronaphthalene	0.9830000	0.9740500	0.9740500	0.01	-0.91	100.00	AVRG
2-Nitroaniline	0.2580000	0.2722600	0.2722600	0.01	5.53	100.00	AVRG
Dimethyl Phthalate	1.0460000	1.0805000	1.0805000	0.01	3.30	100.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-U Calibration Date: 06/19/04 Time: 1137

Lab File ID: U7803 Init. Calib. Date(s): 06/17/04 06/17/04

Init. Calib. Times: 1004 1410

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Acenaphthylene	1.4520000	1.5502000	1.5502000	0.01	6.76	100.00	AVRG
2,6-Dinitrotoluene	52.449000	50.000000	0.2428500	0.01	4.90	100.00	LINR
3-Nitroaniline	57.487000	50.000000	0.2675400	0.01	14.97	100.00	2RDR
Acenaphthene	0.9410000	0.9805400	0.9805400	0.01	4.20	20.00	AVRG
2,4-Dinitrophenol	63.754000	50.000000	0.1026000	0.05	27.51	100.00	2RDR
4-Nitrophenol	59.353000	50.000000	0.1069500	0.05	18.71	100.00	2RDR
Dibenzofuran	1.1910000	1.2723000	1.2723000	0.01	6.83	100.00	AVRG
2,4-Dinitrotoluene	58.740000	50.000000	0.3295600	0.01	17.48	100.00	2RDR
Diethylphthalate	1.0740000	1.0792000	1.0792000	0.01	0.48	100.00	AVRG
4-Chlorophenyl-phenylether	0.4970000	0.5011600	0.5011600	0.01	0.84	100.00	AVRG
Fluorene	1.0080000	1.0270000	1.0270000	0.01	1.88	100.00	AVRG
4-Nitroaniline	72.014000	50.000000	0.2308300	0.01	44.03	100.00	2RDR
4,6-Dinitro-2-Methylphenol	59.950000	50.000000	0.1096200	0.01	19.90	100.00	2RDR
N-Nitrosodiphenylamine	0.5360000	0.5435200	0.5435200	0.01	1.40	20.00	AVRG
4-Bromophenyl-phenylether	43.851000	50.000000	0.1831400	0.01	-12.30	100.00	LINR
Hexachlorobenzene	0.2080000	0.1892200	0.1892200	0.01	-9.03	100.00	AVRG
Pentachlorophenol	58.508000	50.000000	0.1033600	0.01	17.02	20.00	2RDR
Phenanthrene	0.9200000	0.9513900	0.9513900	0.01	3.41	100.00	AVRG
Anthracene	0.9060000	0.9651300	0.9651300	0.01	6.53	100.00	AVRG
Carbazole	0.7120000	0.7854800	0.7854800	0.01	10.32	100.00	AVRG
Di-n-butylphthalate	1.1360000	1.2236000	1.2236000	0.01	7.71	100.00	AVRG
Fluoranthene	0.7900000	0.8803900	0.8803900	0.01	11.44	20.00	AVRG
Pyrene	1.3790000	1.3614000	1.3614000	0.01	-1.28	100.00	AVRG
Butylbenzylphthalate	0.7470000	0.7715100	0.7715100	0.01	3.28	100.00	AVRG
3,3'-Dichlorobenzidine	62.158000	50.000000	0.2467800	0.01	24.32	100.00	LINR
Benzo(a)anthracene	0.9620000	1.0392000	1.0392000	0.01	8.02	100.00	AVRG
Chrysene	0.9080000	0.9935600	0.9935600	0.01	9.42	100.00	AVRG
bis(2-Ethylhexyl)phthalate	1.0360000	1.1083000	1.1083000	0.01	6.98	100.00	AVRG
Di-n-octylphthalate	2.6720000	2.2354000	2.2354000	0.01	-16.34	20.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-U Calibration Date: 06/19/04 Time: 1137

Lab File ID: U7803 Init. Calib. Date(s): 06/17/04 06/17/04

Init. Calib. Times: 1004 1410

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Benzo(b)fluoranthene	42.064000	50.000000	1.2358000	0.01	-15.87	100.00	LINR
Benzo(k)fluoranthene	45.077000	50.000000	1.2570000	0.01	-9.85	100.00	2RDR
Benzo(a)pyrene	42.499000	50.000000	1.0213000	0.01	-15.00	20.00	LINR
Indeno(1,2,3-cd)pyrene	46.075000	50.000000	1.0463000	0.01	-7.85	100.00	LINR
Dibenzo(a,h)anthracene	43.811000	50.000000	0.8668300	0.01	-12.38	100.00	LINR
Benzo(g,h,i)perylene	49.162000	50.000000	0.8627700	0.01	-1.68	100.00	LINR
2-Fluorophenol	1.1110000	1.2033000	1.2033000	0.01	8.31	100.00	AVRG
Phenol-D6	1.4360000	1.5259000	1.5259000	0.01	6.26	100.00	AVRG
Nitrobenzene-D5	0.3120000	0.3267000	0.3267000	0.01	4.71	100.00	AVRG
2-Fluorobiphenyl	1.0900000	1.1102000	1.1102000	0.01	1.85	100.00	AVRG
2,4,6-Tribromophenol	54.018000	50.000000	0.1451300	0.01	8.04	100.00	2RDR
Terphenyl-D14	0.9620000	0.8987000	0.8987000	0.01	-6.58	100.00	AVRG

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Lab File ID: UD732 DFTPP Injection Date: 06/22/04

Instrument ID: GCMS-U DFTPP Injection Time: 0904

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	38.5
68	Less than 2.0% of mass 69	0.7 (1.5)1
69	Less than 100.0% of mass 198	46.8
70	Less than 2.0% of mass 69	0.1 (0.3)1
127	40.0 - 60.0% of mass 198	58.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	19.4
365	1.0 - 100.0% of mass 198	1.9
441	0.0 - 100.0% of mass 443	12.0 (81.1)2
442	40.0 - 100.0% of mass 198	75.4
443	17.0 - 23.0% of mass 442	14.8 (19.7)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050U0622	U7809	06/22/04	1022
02	G01-MW-08-0504	WU1552-5	U7814	06/22/04	1547
03					
04					
05					
06					
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20					

FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-U Calibration Date: 06/22/04 Time: 1022

Lab File ID: U7809 Init. Calib. Date(s): 06/17/04 06/17/04

Init. Calib. Times: 1004 1410

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Phenol	1.4630000	1.4878000	1.4878000	0.01	1.70	20.00	AVRG
Bis(2-Chloroethyl)ether	1.2440000	1.2219000	1.2219000	0.01	-1.78	100.00	AVRG
2-Chlorophenol	1.2190000	1.2335000	1.2335000	0.01	1.19	100.00	AVRG
1,3-Dichlorobenzene	1.2900000	1.2848000	1.2848000	0.01	-0.40	100.00	AVRG
1,4-Dichlorobenzene	1.3480000	1.3364000	1.3364000	0.01	-0.86	20.00	AVRG
1,2-Dichlorobenzene	1.2790000	1.1872000	1.1872000	0.01	-7.18	100.00	AVRG
2-Methylphenol	1.1370000	1.1845000	1.1845000	0.01	4.18	100.00	AVRG
2,2'-Oxybis(1-Chloropropane)	1.4470000	1.3446000	1.3446000	0.01	-7.08	100.00	AVRG
4-Methylphenol	1.1910000	1.2249000	1.2249000	0.01	2.85	100.00	AVRG
N-Nitroso-di-n-propylamine	0.9100000	0.8595200	0.8595200	0.05	-5.55	100.00	AVRG
Hexachloroethane	0.5360000	0.5018100	0.5018100	0.01	-6.38	100.00	AVRG
Nitrobenzene	0.3000000	0.2977800	0.2977800	0.01	-0.74	100.00	AVRG
Isophorone	0.5340000	0.5406900	0.5406900	0.01	1.25	100.00	AVRG
2-Nitrophenol	0.1550000	0.1670700	0.1670700	0.01	7.79	20.00	AVRG
2,4-Dimethylphenol	0.2920000	0.3063700	0.3063700	0.01	4.92	100.00	AVRG
Bis(2-Chloroethoxy)methane	0.3820000	0.3850600	0.3850600	0.01	0.80	100.00	AVRG
2,4-Dichlorophenol	0.2340000	0.2394300	0.2394300	0.01	2.32	20.00	AVRG
1,2,4-Trichlorobenzene	0.2520000	0.2409000	0.2409000	0.01	-4.40	100.00	AVRG
Naphthalene	0.7980000	0.8335300	0.8335300	0.01	4.45	100.00	AVRG
4-Chloroaniline	0.3420000	0.3621500	0.3621500	0.01	5.89	100.00	AVRG
Hexachlorobutadiene	0.1220000	0.1090400	0.1090400	0.01	-10.62	20.00	AVRG
4-Chloro-3-Methylphenol	0.2380000	0.2584800	0.2584800	0.01	8.60	20.00	AVRG
2-Methylnaphthalene	0.5590000	0.5347900	0.5347900	0.01	-4.33	100.00	AVRG
Hexachlorocyclopentadiene	48.331000	50.000000	0.2001400	0.05	-3.34	100.00	LINR
2,4,6-Trichlorophenol	46.680000	50.000000	0.2813200	0.01	-6.64	20.00	LINR
2,4,5-Trichlorophenol	48.241000	50.000000	0.3075100	0.01	-3.52	100.00	LINR
2-Chloronaphthalene	0.9830000	0.9158400	0.9158400	0.01	-6.83	100.00	AVRG
2-Nitroaniline	0.2580000	0.2588800	0.2588800	0.01	0.34	100.00	AVRG
Dimethyl Phthalate	1.0460000	1.0227000	1.0227000	0.01	-2.23	100.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-U Calibration Date: 06/22/04 Time: 1022

Lab File ID: U7809 Init. Calib. Date(s): 06/17/04 06/17/04

Init. Calib. Times: 1004 1410

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Acenaphthylene	1.4520000	1.4946000	1.4946000	0.01	2.93	100.00	AVRG	
2,6-Dinitrotoluene	49.897000	50.000000	0.2296400	0.01	-0.21	100.00	LINR	
3-Nitroaniline	57.048000	50.000000	0.2652700	0.01	14.10	100.00	2RDR	
Acenaphthene	0.9410000	0.9351800	0.9351800	0.01	-0.62	20.00	AVRG	
2,4-Dinitrophenol	60.868000	50.000000	9.67e-002	0.05	21.74	100.00	2RDR	
4-Nitrophenol	57.332000	50.000000	0.1029000	0.05	14.66	100.00	2RDR	
Dibenzofuran	1.1910000	1.2244000	1.2244000	0.01	2.80	100.00	AVRG	
2,4-Dinitrotoluene	55.926000	50.000000	0.3123700	0.01	11.85	100.00	2RDR	
Diethylphthalate	1.0740000	1.0179000	1.0179000	0.01	-5.22	100.00	AVRG	
4-Chlorophenyl-phenylether	0.4970000	0.4611700	0.4611700	0.01	-7.21	100.00	AVRG	
Fluorene	1.0080000	0.9602100	0.9602100	0.01	-4.74	100.00	AVRG	
4-Nitroaniline	67.554000	50.000000	0.2151100	0.01	35.11	100.00	2RDR	
4,6-Dinitro-2-Methylphenol	57.258000	50.000000	0.1036600	0.01	14.52	100.00	2RDR	
N-Nitrosodiphenylamine	0.5360000	0.5191800	0.5191800	0.01	-3.14	20.00	AVRG	
4-Bromophenyl-phenylether	41.700000	50.000000	0.1735700	0.01	-16.60	100.00	LINR	
Hexachlorobenzene	0.2080000	0.1765800	0.1765800	0.01	-15.11	100.00	AVRG	
Pentachlorophenol	60.564000	50.000000	0.1078800	0.01	21.13	20.00	2RDR	<-
Phenanthrene	0.9200000	0.8968800	0.8968800	0.01	-2.51	100.00	AVRG	
Anthracene	0.9060000	0.9128800	0.9128800	0.01	0.76	100.00	AVRG	
Carbazole	0.7120000	0.7777900	0.7777900	0.01	9.24	100.00	AVRG	
Di-n-butylphthalate	1.1360000	1.1712000	1.1712000	0.01	3.10	100.00	AVRG	
Fluoranthene	0.7900000	0.8457000	0.8457000	0.01	7.05	20.00	AVRG	
Pyrene	1.3790000	1.3131000	1.3131000	0.01	-4.78	100.00	AVRG	
Butylbenzylphthalate	0.7470000	0.7659500	0.7659500	0.01	2.54	100.00	AVRG	
3,3'-Dichlorobenzidine	62.580000	50.000000	0.2486200	0.01	25.16	100.00	LINR	
Benzo(a)anthracene	0.9620000	1.0313000	1.0313000	0.01	7.20	100.00	AVRG	
Chrysene	0.9080000	0.9749500	0.9749500	0.01	7.37	100.00	AVRG	
bis(2-Ethylhexyl)phthalate	1.0360000	1.0690000	1.0690000	0.01	3.18	100.00	AVRG	
Di-n-octylphthalate	2.6720000	2.1355000	2.1355000	0.01	-20.08	20.00	AVRG	<-

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-U Calibration Date: 06/22/04 Time: 1022

Lab File ID: U7809 Init. Calib. Date(s): 06/17/04 06/17/04

Init. Calib. Times: 1004 1410

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Benzo(b)fluoranthene	39.709000	50.000000	1.1538000	0.01	-20.58	100.00	LINR
Benzo(k)fluoranthene	44.278000	50.000000	1.2333000	0.01	-11.44	100.00	2RDR
Benzo(a)pyrene	40.615000	50.000000	0.9677900	0.01	-18.77	20.00	LINR
Indeno(1,2,3-cd)pyrene	40.867000	50.000000	0.9045000	0.01	-18.27	100.00	LINR
Dibenzo(a,h)anthracene	38.615000	50.000000	0.7436700	0.01	-22.77	100.00	LINR
Benzo(g,h,i)perylene	42.664000	50.000000	0.7298100	0.01	-14.67	100.00	LINR
2-Fluorophenol	1.1110000	1.1956000	1.1956000	0.01	7.61	100.00	AVRG
Phenol-D6	1.4360000	1.5243000	1.5243000	0.01	6.15	100.00	AVRG
Nitrobenzene-D5	0.3120000	0.3234400	0.3234400	0.01	3.67	100.00	AVRG
2-Fluorobiphenyl	1.0900000	1.0439000	1.0439000	0.01	-4.23	100.00	AVRG
2,4,6-Tribromophenol	49.894000	50.000000	0.1328200	0.01	-0.21	100.00	2RDR
Terphenyl-D14	0.9620000	0.8530400	0.8530400	0.01	-11.33	100.00	AVRG

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 06/02/04
Analysis Date: 06/02/04
Report Date: 06/22/2004
Matrix: WATER
% Solids: NA

Lab ID: WG7920-1
Client ID: WG7920-Blank
SDG: CTO301318-2
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7920
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		86%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 06/03/04
Analysis Date: 06/03/04
Report Date: 06/22/2004
Matrix: WATER
% Solids: NA

Lab ID: WG7969-1
Client ID: WG7969-Blank
SDG: CTO301318-2
Extracted by: LAD
Extraction Method: 504.1
Analyst: LAD
Analysis Method: EPA 504.1
Lab Prep Batch: WG7969
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
106-93-4	1,2-Dibromoethane	U	0.020	1.0	0.020	0.020	0.020
877-09-8	Tetrachloro-M-Xylene		111%				

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

GC Column(1): SPB 608 ID: 0.53 (mm)GC Column(2): RTX-CLP IIID: 0.53 (mm)

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 TCX#	SMC2 TCX#			TOT OUT
01	WG7920-BLANK	WG7920-1	86	82			0
02	WG7920-LCS	WG7920-2	91	87			0
03	WG7920-LCSD	WG7920-3	86	82			0
04	G01-MW-07-0504	WU1552-2	76	68			0
05	G01-MW-08-0504	WU1552-4	97	88			0
06	G01-MW-09-0504	WU1552-6	80	72			0
07	WG7969-BLANK	WG7969-1	111	111			0
08	WG7969-LCS	WG7969-2	124	119			0
09	WG7969-LCSD	WG7969-3	126	102			0
10	G01-MW-01A-0504	WU1552-1RE	66	61			0
11	G01-MW-01-0504	WU1571-1	82	83			0
12	KW-RINS-01-0504	WU1571-2	87	92			0
13	KW-DUP-02-0504	WU1552-8	75	73			0
14	G01-MW-01-0504MS	WG7969-6	83	97			0
15	G01-MW-01-0504MSD	WG7969-7	71	75			0
16							
17							
18							
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22							
23							
24							
25							
26							
27							
28							

QC LIMITS

SMC1 (TCX) = Tetrachloro-M-Xylene (57-128)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 4

PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG7920-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Lab Sample ID: WG7920-1 Lab File ID: 3UF1010

Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) 504.1

Sulfur Cleanup: (Y/N) N Date Extracted: 06/02/04

Date Analyzed (1): 06/02/04 Date Analyzed (2): 06/02/04

Time Analyzed (1): 1748 Time Analyzed (2): 1748

Instrument ID (1): GC03 Instrument ID (2): GC03

GC Column (1): SPB 608 ID: 0.53(mm) GC Column (2): RTX-CLP II ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	WG7920-LCS	WG7920-2	3UF1011	06/02/04	06/02/04
02	WG7920-LCSD	WG7920-3	3UF1012	06/02/04	06/02/04
03	G01-MW-07-0504	WU1552-2	3UF1035	06/03/04	06/03/04
04	G01-MW-08-0504	WU1552-4	3UF1036	06/03/04	06/03/04
05	G01-MW-09-0504	WU1552-6	3UF1037	06/03/04	06/03/04
06					
07					
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24					

COMMENTS: _____

FORM 4
PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG7969-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Lab Sample ID: WG7969-1 Lab File ID: 3UF1042

Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) 504.1

Sulfur Cleanup: (Y/N) N Date Extracted: 06/03/04

Date Analyzed (1): 06/03/04 Date Analyzed (2): 06/03/04

Time Analyzed (1): 1507 Time Analyzed (2): 1507

Instrument ID (1): GC03 Instrument ID (2): GC03

GC Column (1): SPB 608 ID: 0.53(mm) GC Column (2): RTX-CLP II ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	WG7969-LCS	WG7969-2	3UF1043	06/03/04	06/03/04
02	WG7969-LCSD	WG7969-3	3UF1044	06/03/04	06/03/04
03	G01-MW-01A-0504	WU1552-1RE	3UF1051	06/03/04	06/03/04
04	G01-MW-01-0504	WU1571-1	3UF1055	06/04/04	06/04/04
05	KW-RINS-01-0504	WU1571-2	3UF1056	06/04/04	06/04/04
06	KW-DUP-02-0504	WU1552-8	3UF1057	06/04/04	06/04/04
07	G01-MW-01-0504MS	WG7969-6	3UF1058	06/04/04	06/04/04
08	G01-MW-01-0504MSD	WG7969-7	3UF1059	06/04/04	06/04/04
09					
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23					
24					

COMMENTS: _____

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GC03 Calibration Date(s): 06/02/04 06/02/04

Column: SPB 608 ID: 0.53 (mm) Calibration Time(s): 1540 1730

LAB FILE ID: RF0.02: 3UF1003 RF0.05: 3UF1004 RF0.1: 3UF1005
RF0.25: 3UF1006 RF0.5: 3UF1007 RF1: 3UF1008

								COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF0.02	RF0.05	RF0.1	RF0.25	RF0.5	RF1	CURVE	A0	A1	A2	OR R^2	OR R^2	
1,2-Dibromoethane	1888	4657	9189	20346	35226	61414	2ORDR	-1.06e-002	1.244e-005	6.149e-011	0.99984	0.99000	
Tetrachloro-M-Xylene	14432	32267	58550	67797	82368	160610	2ORDR	1.776e-002	1.358e-005	1.131e-011	0.99924	0.99000	

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GC03 Calibration Date(s): 06/02/04 06/02/04

Column: SPB 608 ID: 0.53 (mm) Calibration Time(s): 1540 1730

RF2.5: 3UF1009

			COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF2.5	CURVE	A0	A1	A2	OR R^2	OR R^2	
1,2-Dibromoethane	124920	2ORDR	-1.06e-002	1.244e-005	6.149e-011	0.99984	0.99000	
Tetrachloro-M-Xylene	294730	2ORDR	1.776e-002	1.358e-005	1.131e-011	0.99924	0.99000	

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GC03 Calibration Date(s): 06/02/04 06/02/04

Column: RTX-CLP II ID: 0.53 (mm) Calibration Time(s): 1540 1730

LAB FILE ID: RF0.02: 3UF2003 RF0.05: 3UF2004 RF0.1: 3UF2005
RF0.25: 3UF2006 RF0.5: 3UF2007 RF1: 3UF2008

								COEFFICENTS			%RSD	MAX %RSD
COMPOUND	RF0.02	RF0.05	RF0.1	RF0.25	RF0.5	RF1	CURVE	A0	A1	A2	OR R^2	OR R^2
1,2-Dibromoethane	245	545	1030	2376	4595	8515	2ORDR	-6.76e-003	1.055e-004	1.399e-009	0.99997	0.99000
Tetrachloro-M-Xylene	2132	4433	8465	9840	12086	24520	2ORDR	8.842e-003	1.004e-004	9.231e-012	0.99914	0.99000

FORM VI VOA

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GC03 Calibration Date(s): 06/02/04 06/02/04

Column: RTX-CLP II ID: 0.53 (mm) Calibration Time(s): 1540 1730

RF2.5: 3UP2009

			COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF2.5	CURVE	A0	A1	A2	OR R^2	OR R^2	
1,2-Dibromoethane	18990	2ORDR	-6.76e-003	1.055e-004	1.399e-009	0.99997	0.99000	
Tetrachloro-M-Xylene	49508	2ORDR	8.842e-003	1.004e-004	9.231e-012	0.99914	0.99000	

FORM VI VOA

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GC03 Calibration Date: 06/03/04 Time: 0219

Lab File ID: 3UF1038 Init. Calib. Date(s): 06/02/04 06/02/04

Init. Calib. Times: 1540 1730

GC Column: SPB 608 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2-Dibromoethane	0.5070200	0.5000000	70450.000	0.01	1.40	30.00	2RDR
Tetrachloro-M-Xylene	1.1010000	1.2500000	65890.000	0.01	-11.92	30.00	2RDR

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GC03 Calibration Date: 06/03/04 Time: 0219

Lab File ID: 3UF2038 Init. Calib. Date(s): 06/02/04 06/02/04

Init. Calib. Times: 1540 1730

GC Column: RTX-CLP II ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2-Dibromoethane	0.5019200	0.5000000	9096.0000	0.01	0.38	30.00	2RDR
Tetrachloro-M-Xylene	1.0158000	1.2500000	8012.8000	0.01	-18.74	30.00	2RDR

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GC03 Calibration Date: 06/03/04 Time: 1332

Lab File ID: 3UF1041A Init. Calib. Date(s): 06/02/04 06/02/04

Init. Calib. Times: 1540 1730

GC Column: SPB 608 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2-Dibromoethane	0.4402400	0.5000000	62754.000	0.01	-11.95	30.00	2RDR
Tetrachloro-M-Xylene	1.5688000	1.2500000	84021.000	0.01	25.50	30.00	2RDR

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GC03 Calibration Date: 06/03/04 Time: 1332

Lab File ID: 3UF2041A Init. Calib. Date(s): 06/02/04 06/02/04

Init. Calib. Times: 1540 1730

GC Column: RTX-CLP II ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2-Dibromoethane	0.4865800	0.5000000	9222.0000	0.01	-2.68	30.00	2RDR
Tetrachloro-M-Xylene	1.3417000	1.2500000	10602.000	0.01	7.34	30.00	2RDR

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GC03 Calibration Date: 06/04/04 Time: 0947

Lab File ID: 3UF1060 Init. Calib. Date(s): 06/02/04 06/02/04

Init. Calib. Times: 1540 1730

GC Column: SPB 608 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2-Dibromoethane	0.4739100	0.5000000	66854.000	0.01	-5.22	30.00	2RDR
Tetrachloro-M-Xylene	1.4784000	1.2500000	79471.000	0.01	18.27	30.00	2RDR

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GC03 Calibration Date: 06/04/04 Time: 0947

Lab File ID: 3UF2060 Init. Calib. Date(s): 06/02/04 06/02/04

Init. Calib. Times: 1540 1730

GC Column: RTX-CLP II ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
1,2-Dibromoethane	0.4957800	0.5000000	8992.0000	0.01	-0.84	30.00	2RDR
Tetrachloro-M-Xylene	1.4515000	1.2500000	11475.000	0.01	16.12	30.00	2RDR

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO301,318 NAS KEY WEST SDG No.: CTO301318-2

GC Column: SPB 608 ID: 0.53 (mm) Init. Calib. Date(s): 06/02/04 06/02/04

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 12.03

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	RT #
01	ICAL	0.02	06/02/04	1540	12.04	
02	ICAL	0.05	06/02/04	1558	12.04	
03	ICAL	0.10	06/02/04	1617	12.03	
04	ICAL	0.25	06/02/04	1635	12.04	
05	ICAL	0.50	06/02/04	1653	12.04	
06	ICAL	1.0	06/02/04	1711	12.04	
07	ICAL	2.5	06/02/04	1730	12.04	
08	WG7920-BLANK	WG7920-1	06/02/04	1748	12.04	
09	WG7920-LCS	WG7920-2	06/02/04	1806	12.04	
10	WG7920-LCSD	WG7920-3	06/02/04	1824	12.04	
11	G01-MW-07-05	WU1552-2	06/03/04	0124	12.03	
12	G01-MW-08-05	WU1552-4	06/03/04	0142	12.04	
13	G01-MW-09-05	WU1552-6	06/03/04	0200	12.03	
14	CV	CV	06/03/04	0219	12.04	
15	CV	CV	06/03/04	1332	12.07	
16	WG7969-BLANK	WG7969-1	06/03/04	1507	12.07	
17	WG7969-LCS	WG7969-2	06/03/04	1525	12.05	
18	WG7969-LCSD	WG7969-3	06/03/04	1543	12.04	
19	G01-MW-01A-0	WU1552-1RE	06/03/04	1751	12.04	
20	G01-MW-01-05	WU1571-1	06/04/04	0816	12.05	

QC LIMITS
TCX = Tetrachloro-M-Xylene (+/- 0.24 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO301,318 NAS KEY WEST SDG No.: CTO301318-2

GC Column: SPB 608 ID: 0.53 (mm) Init. Calib. Date(s): 06/02/04 06/02/04

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 12.03

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	RT #
01	KW-RINS-01-0	WU1571-2	06/04/04	0834	12.04	
02	KW-DUP-02-05	WU1552-8	06/04/04	0853	12.04	
03	G01-MW-01-05	WG7969-6	06/04/04	0911	12.04	
04	G01-MW-01-05	WG7969-7	06/04/04	0929	12.04	
05	CV	CV	06/04/04	0947	12.04	
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
TCX = Tetrachloro-M-Xylene (+/- 0.24 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO301,318 NAS KEY WEST SDG No.: CTO301318-2

GC Column: RTX-CLP II ID: 0.53 (mm) Init. Calib. Date(s): 06/02/04 06/02/04

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 11.33

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	RT	#
01	ICAL	0.02	06/02/04	1540	11.35			
02	ICAL	0.05	06/02/04	1558	11.35			
03	ICAL	0.10	06/02/04	1617	11.33			
04	ICAL	0.25	06/02/04	1635	11.35			
05	ICAL	0.50	06/02/04	1653	11.35			
06	ICAL	1.0	06/02/04	1711	11.35			
07	ICAL	2.5	06/02/04	1730	11.35			
08	WG7920-BLANK	WG7920-1	06/02/04	1748	11.35			
09	WG7920-LCS	WG7920-2	06/02/04	1806	11.35			
10	WG7920-LCSD	WG7920-3	06/02/04	1824	11.35			
11	G01-MW-07-05	WU1552-2	06/03/04	0124	11.35			
12	G01-MW-08-05	WU1552-4	06/03/04	0142	11.35			
13	G01-MW-09-05	WU1552-6	06/03/04	0200	11.35			
14	CV	CV	06/03/04	0219	11.35			
15	CV	CV	06/03/04	1332	11.37			
16	WG7969-BLANK	WG7969-1	06/03/04	1507	11.37			
17	WG7969-LCS	WG7969-2	06/03/04	1525	11.36			
18	WG7969-LCSD	WG7969-3	06/03/04	1543	11.35			
19	G01-MW-01A-0	WU1552-1RE	06/03/04	1751	11.35			
20	G01-MW-01-05	WU1571-1	06/04/04	0816	11.36			

QC LIMITS

TCX = Tetrachloro-M-Xylene (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
VOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO301,318 NAS KEY WEST SDG No.: CTO301318-2

GC Column: RTX-CLP II ID: 0.53 (mm) Init. Calib. Date(s): 06/02/04 06/02/04

Instrument ID: GC03

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 11.33

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	RT #
01	KW-RINS-01-0	WU1571-2	06/04/04	0834	11.36	
02	KW-DUP-02-05	WU1552-8	06/04/04	0853	11.35	
03	G01-MW-01-05	WG7969-6	06/04/04	0911	11.36	
04	G01-MW-01-05	WG7969-7	06/04/04	0929	11.36	
05	CV	CV	06/04/04	0947	11.36	
06						
07						
08						
09						
10						
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16						
17						
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19						
20						

QC LIMITS

TCX = Tetrachloro-M-Xylene (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 05/28/04
Analysis Date: 06/22/04
Report Date: 06/23/2004
Matrix: WATER
% Solids: NA

Lab ID: WG7859-1
Client ID: WG7859-Blank
SDG: CTO301318-2
Extracted by: JP
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 M8100
Lab Prep Batch: WG7859
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	280
	n-Triacontane-D62		64%				
	O-Terphenyl		* 61%				

FORM 2
WATER FL-PRO SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 OTP#	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	WG7859-BLANK	WG7859-1	64	61*							1
02	WG7859-LCS	WG7859-2	81	75*							1
03	G01-MW-01A-0504	WU1552-1	60	75*							1
04	G01-MW-07-0504	WU1552-2	60	84							0
05	G01-MW-08-0504	WU1552-4	60	82							0
06	G01-MW-09-0504	WU1552-6	61	81*							1
07	KW-DUP-02-0504	WU1552-8	58	82							0
08	G01-MW-01-0504	WU1571-1	46	75*							1
09	KW-RINS-01-0504	WU1571-2	66	88							0
10	G01-MW-01-0504MS	WG7859-3	77	74*							1
11	G01-MW-01-0504MSD	WG7859-4	71	68*							1
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

		QC LIMITS
S1	= n-Triacontane-D62	(42-193)
S2 (OTP)	= O-Terphenyl	(82-142)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 4

SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG7859-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Lab File ID: CUF2141 Lab Sample ID: WG7859-1

Instrument ID: GC12 Date Extracted: 05/28/04

Matrix: (soil/water) WATER Date Analyzed: 06/22/04

Level:(low/med) LOW Time Analyzed: 1705

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG7859-LCS	WG7859-2	CUF2142	06/22/04	1814
02	G01-MW-01A-0504	WU1552-1	CUF2143	06/22/04	1924
03	G01-MW-07-0504	WU1552-2	CUF2144	06/22/04	2034
04	G01-MW-08-0504	WU1552-4	CUF2145	06/22/04	2145
05	G01-MW-09-0504	WU1552-6	CUF2146	06/22/04	2255
06	KW-DUP-02-0504	WU1552-8	CUF2147	06/23/04	0005
07	G01-MW-01-0504	WU1571-1	CUF2148	06/23/04	0115
08	KW-RINS-01-0504	WU1571-2	CUF2149	06/23/04	0225
09	G01-MW-01-0504MS	WG7859-3	CUF2150	06/23/04	0334
10	G01-MW-01-0504MSD	WG7859-4	CUF2151	06/23/04	0444
11					
12					
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30					

COMMENTS:

FORM 6
FL-PRO INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GC12 Calibration Date(s): 01/15/04 01/15/04

Column: ZB-1 ID: 0.53 (mm) Calibration Time(s): 0329 0809

LAB FILE ID: RF5: CUA2058 RF20: CUA2059 RF50: CUA2060
RF100: CUA2061 RF200: CUA2062

COMPOUND	RF5	RF20	RF50	RF100	RF200	CURVE	COEFFICIENTS A0	COEFFICIENTS A1	%RSD OR R^2	MAX %RSD OR R^2
C-24	28608	115080	291160	567020	1159700	LINR	0.21946184	1.729e-004	0.99986	0.99000
C-8	29571	113520	285540	559500	1120700	LINR	-0.3179999	1.787e-004	0.99998	0.99000
C-10	44616	119260	291320	572080	1153100	LINR	-0.9962156	1.747e-004	0.99981	0.99000
C-12	8727	118790	296890	573940	1155400	LINR	0.67416490	1.722e-004	0.99955	0.99000
C-14	30797	116970	289990	572110	1157900	LINR	-5.64e-002	1.731e-004	0.99996	0.99000
C-16	30385	117240	293420	575020	1165800	LINR	-3.37e-002	1.72e-004	0.99994	0.99000
C-18	29940	116910	292420	573010	1166600	LINR	8.384e-002	1.719e-004	0.99991	0.99000
C-28	29723	116310	294110	572040	1164400	LINR	3.314e-002	1.722e-004	0.99990	0.99000
C-20	29610	116560	293280	571720	1164600	LINR	6.577e-002	1.722e-004	0.99990	0.99000
C-22	29259	116660	293340	572810	1169300	LINR	0.16148628	1.715e-004	0.99989	0.99000
FL-PRO peaks C8-C40	491470	1955200	4966100	9706200	2.e+007	LINR	0.84359268	1.732e-004	0.99994	0.99000
C-26	29407	115890	294330	572720	1167500	LINR	0.11742793	1.717e-004	0.99989	0.99000
C-38	28905	107560	279190	558160	1129200	LINR	0.41790430	1.771e-004	0.99995	0.99000
C-40	23709	102680	285040	550470	1136800	LINR	1.00039501	1.758e-004	0.99970	0.99000
C-30	31378	117890	295870	573650	1161900	LINR	-0.2570571	1.727e-004	0.99992	0.99000
C-32	29450	114070	293980	572950	1156100	LINR	-4.48e-002	1.732e-004	0.99995	0.99000
C-34	29113	115760	300230	585980	1178500	LINR	-2.36e-002	1.698e-004	0.99995	0.99000
C-36	28271	114090	296030	583060	1159300	LINR	-0.1381361	1.723e-004	0.99995	0.99000
O-Terphenyl	6399.80	6360.20	6552.40	6396.50	6295.50	AVRG		6400.87200	1.477	40.000
n-Triacontane-D62	5100.80	5099.40	5229.10	5106.60	5062.00	AVRG		5119.58333	1.245	40.000

FORM VI FL-PRO

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GC12 Calibration Date: 06/22/04 Time: 1554

Lab File ID: CUF2140 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 0329 0809

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
C-24	48.797000	50.000000	5654.0000	0.01	-2.41	25.00	LINR	
C-8	45.466000	50.000000	5116.0000	0.01	-9.07	25.00	LINR	
C-10	44.049000	50.000000	5214.1000	0.01	-11.90	25.00	LINR	
C-12	47.931000	50.000000	5550.5000	0.01	-4.14	25.00	LINR	
C-14	48.680000	50.000000	5602.4000	0.01	-2.64	25.00	LINR	
C-16	47.600000	50.000000	5659.7000	0.01	-4.80	25.00	LINR	
C-18	48.658000	50.000000	5675.5000	0.01	-2.68	25.00	LINR	
C-28	48.716000	50.000000	5711.0000	0.01	-2.57	25.00	LINR	
C-20	48.845000	50.000000	5686.0000	0.01	-2.31	25.00	LINR	
C-22	48.965000	50.000000	5719.6000	0.01	-2.07	25.00	LINR	
FL-PRO peaks C8-C40	775.73000	850.00000	5412.8000	0.01	-8.74	25.00	LINR	
C-26	48.680000	50.000000	5699.5000	0.01	-2.64	25.00	LINR	
C-38	36.401000	50.000000	4719.2000	0.01	-27.20	25.00	LINR	<-
C-40	23.906000	50.000000	3387.2000	0.01	-52.19	25.00	LINR	<-
C-30	48.792000	50.000000	5765.6000	0.01	-2.42	25.00	LINR	
C-32	48.368000	50.000000	5694.8000	0.01	-3.26	25.00	LINR	
C-34	47.853000	50.000000	5713.2000	0.01	-4.29	25.00	LINR	
C-36	44.019000	50.000000	5449.5000	0.01	-11.96	25.00	LINR	
O-Terphenyl	6400.9000	6434.4000	6434.4000	0.01	0.52	25.00	AVRG	
n-Triacontane-D62	5119.6000	5219.4000	5219.4000	0.01	1.95	25.00	AVRG	

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GC12 Calibration Date: 06/23/04 Time: 0814

Lab File ID: CUF2154 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 0329 0809

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
C-24	49.091000	50.000000	5654.0000	0.01	-1.82	25.00	LINR	
C-8	45.402000	50.000000	5116.0000	0.01	-9.20	25.00	LINR	
C-10	44.558000	50.000000	5214.1000	0.01	-10.88	25.00	LINR	
C-12	48.475000	50.000000	5550.5000	0.01	-3.05	25.00	LINR	
C-14	48.445000	50.000000	5602.4000	0.01	-3.11	25.00	LINR	
C-16	48.629000	50.000000	5659.7000	0.01	-2.74	25.00	LINR	
C-18	48.859000	50.000000	5675.5000	0.01	-2.28	25.00	LINR	
C-28	49.204000	50.000000	5711.0000	0.01	-1.59	25.00	LINR	
C-20	49.013000	50.000000	5686.0000	0.01	-1.97	25.00	LINR	
C-22	49.197000	50.000000	5719.6000	0.01	-1.61	25.00	LINR	
FL-PRO peaks C8-C40	797.00000	850.00000	5412.8000	0.01	-6.24	25.00	LINR	
C-26	49.050000	50.000000	5699.5000	0.01	-1.90	25.00	LINR	
C-38	42.212000	50.000000	4719.2000	0.01	-15.58	25.00	LINR	
C-40	30.778000	50.000000	3387.2000	0.01	-38.44	25.00	LINR	<-
C-30	49.521000	50.000000	5765.6000	0.01	-0.96	25.00	LINR	
C-32	49.276000	50.000000	5694.8000	0.01	-1.45	25.00	LINR	
C-34	48.475000	50.000000	5713.2000	0.01	-3.05	25.00	LINR	
C-36	46.820000	50.000000	5449.5000	0.01	-6.36	25.00	LINR	
O-Terphenyl	6400.9000	6434.4000	6434.4000	0.01	0.52	25.00	AVRG	
n-Triacontane-D62	5119.6000	5219.4000	5219.4000	0.01	1.95	25.00	AVRG	

FORM 8
FL-PRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

GC Column: ZB-1 ID: 0.53 (mm) Init. Calib. Date(s): 01/15/04 01/15/04

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.20 S2 : 24.42

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ICAL	FLPRO 5 UG/M	01/15/04	0329	18.20	24.42
02	ICAL	FLPRO 20 UG/	01/15/04	0438	18.20	24.42
03	ICAL	FLPRO 50 UG/	01/15/04	0548	18.20	24.42
04	ICAL	FLPRO 100UG/	01/15/04	0658	18.20	24.42
05	ICAL	FLPRO 200UG/	01/15/04	0809	18.20	24.42
06	INDSOURCE	FLPRO IND	01/15/04	0919	18.20	24.42
07	CV	FLPRO 50UG/M	06/22/04	1554	18.18	24.39
08	WG7859-BLANK	WG7859-1	06/22/04	1705	18.18	24.36
09	WG7859-LCS	WG7859-2	06/22/04	1814	18.18	24.37
10	G01-MW-01A-0	WU1552-1	06/22/04	1924	18.17	24.36
11	G01-MW-07-05	WU1552-2	06/22/04	2034	18.18	24.37
12	G01-MW-08-05	WU1552-4	06/22/04	2145	18.17	24.37
13	G01-MW-09-05	WU1552-6	06/22/04	2255	18.17	24.36
14	KW-DUP-02-05	WU1552-8	06/23/04	0005	18.17	24.37
15	G01-MW-01-05	WU1571-1	06/23/04	0115	18.18	24.37
16	KW-RINS-01-0	WU1571-2	06/23/04	0225	18.18	24.36
17	G01-MW-01-05	WG7859-3	06/23/04	0334	18.18	24.37
18	G01-MW-01-05	WG7859-4	06/23/04	0444	18.18	24.37
19	CV	FLPRO 50UG/M	06/23/04	0814	18.17	24.37
20						

QC LIMITS
S1 = O-Terphenyl (+/- 0.36 MINUTES)
S2 = n-Triacontane-D62 (+/- 0.49 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO 301,318 NAS KEY WEST
PO No:
Sample Date:
Received Date:
Extraction Date: 06/02/04
Analysis Date: 06/10/04
Report Date: 06/25/2004
Matrix: WATER
% Solids: NA

Lab ID: WG7938-1RA
Client ID: WG7938-Blank
SDG: CTO301318-2
Extracted by: JFC
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG7938
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	0.20	1.0	0.20	0.20	0.050
91-57-6	2-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
208-96-8	Acenaphthylene	U	0.20	1.0	0.20	0.20	0.050
83-32-9	Acenaphthene	U	0.20	1.0	0.20	0.20	0.080
86-73-7	Fluorene	U	0.20	1.0	0.20	0.20	0.060
85-01-8	Phenanthrene	U	0.20	1.0	0.20	0.20	0.080
120-12-7	Anthracene	U	0.20	1.0	0.20	0.20	0.080
206-44-0	Fluoranthene	U	0.20	1.0	0.20	0.20	0.11
129-00-0	Pyrene	U	0.20	1.0	0.20	0.20	0.090
56-55-3	Benzo(a)anthracene	U	0.20	1.0	0.20	0.20	0.12
218-01-9	Chrysene	U	0.20	1.0	0.20	0.20	0.070
205-99-2	Benzo(b)fluoranthene	U	0.20	1.0	0.20	0.20	0.090
207-08-9	Benzo(k)fluoranthene	U	0.20	1.0	0.20	0.20	0.080
50-32-8	Benzo(a)pyrene	U	0.20	1.0	0.20	0.20	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.20	1.0	0.20	0.20	0.10
53-70-3	Dibenzo(a,h)anthracene	U	0.20	1.0	0.20	0.20	0.15
191-24-2	Benzo(g,h,i)perylene	U	0.20	1.0	0.20	0.20	0.080
90-12-0	1-Methylnaphthalene	U	0.20	1.0	0.20	0.20	0.080
7297-45-2	2-Methylnaphthalene-d10		91%				
81103-79-9	Fluorene-d10		96%				
1718-52-1	Pyrene-d10		108%				

FORM 2
WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	WG7938-BLANK	WG7938-1RA	91	96	108						0
02	WG7938-LCS	WG7938-2RA	74	76	95						0
03	G01-MW-01-0504MS	WG7938-3	61	60	88						0
04	G01-MW-01-0504MSD	WG7938-4	56	78	77						0
05	G01-MW-01-0504	WU1571-1	57	72	99						0
06	KW-RINS-01-0504	WU1571-2	59	71	93						0
07	G01-MW-01A-0504	WU1552-1	38	54	92						0
08	G01-MW-07-0504	WU1552-2	51	61	114						0
09	G01-MW-08-0504	WU1552-4	62	61	82						0
10	G01-MW-09-0504	WU1552-6	87	80	125						0
11	KW-DUP-02-0504	WU1552-8	59	64	90						0
12	G01-MW-08-0504	WU1552-4DL	D	D	D						0
13	G01-MW-09-0504	WU1552-6DL	106	124	110						0
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

		QC LIMITS
S1	= 2-Methylnaphthalene-d1	(30-150)
S2	= Fluorene-d10	(30-150)
S3	= Pyrene-d10	(30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG7938-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Lab File ID: K7203 Lab Sample ID: WG7938-1RA

Instrument ID: GCMS-K Date Extracted: 06/02/04

Matrix: (soil/water) WATER Date Analyzed: 06/10/04

Level: (low/med) LOW Time Analyzed: 1238

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG7938-LCS	WG7938-2RA	K7204	06/10/04	1333
02	G01-MW-01-0504MS	WG7938-3	K7238	06/14/04	1657
03	G01-MW-01-0504MSD	WG7938-4	K7239	06/14/04	1751
04	G01-MW-01-0504	WU1571-1	K7314	06/22/04	2053
05	KW-RINS-01-0504	WU1571-2	K7315	06/22/04	2146
06	G01-MW-01A-0504	WU1552-1	K7316	06/22/04	2240
07	G01-MW-07-0504	WU1552-2	K7318	06/23/04	1050
08	G01-MW-08-0504	WU1552-4	K7319	06/23/04	1143
09	G01-MW-09-0504	WU1552-6	K7320	06/23/04	1238
10	KW-DUP-02-0504	WU1552-8	K7321	06/23/04	1332
11	G01-MW-08-0504	WU1552-4DL	K7346	06/25/04	1145
12	G01-MW-09-0504	WU1552-6DL	K7347	06/25/04	1238
13					
14					
15					
16					
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28					
29					
30					

COMMENTS:

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Lab File ID: KD355 DFTPP Injection Date: 06/08/04

Instrument ID: GCMS-K DFTPP Injection Time: 1012

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	65.3
70	Less than 2.0% of mass 69	0.4 (0.6)1
127	40.0 - 60.0% of mass 198	48.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	23.8
365	1.0 - 100.0% of mass 198	2.9
441	0.0 - 100.0% of mass 443	7.4 (42.8)2
442	40.0 - 100.0% of mass 198	88.7
443	17.0 - 23.0% of mass 442	17.2 (19.4)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD3.00K0608	K7176	06/08/04	1301
02		SSTD2.00K0608	K7177	06/08/04	1355
03		SSTD0.50K0608	K7179	06/08/04	1551
04		SSTD0.20K0608	K7180	06/08/04	1644
05		SSTD1.00K0608	K7181	06/08/04	1737
06					
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FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Lab File ID: KD357 DFTPP Injection Date: 06/10/04

Instrument ID: GCMS-K DFTPP Injection Time: 1014

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	51.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	63.9
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	53.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.2
275	10.0 - 30.0% of mass 198	21.4
365	1.0 - 100.0% of mass 198	2.2
441	0.0 - 100.0% of mass 443	9.4 (79.4)2
442	40.0 - 100.0% of mass 198	57.4
443	17.0 - 23.0% of mass 442	11.9 (20.7)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00K0610	K7202	06/10/04	1142
02	WG7938-BLANK	WG7938-1RA	K7203	06/10/04	1238
03	WG7938-LCS	WG7938-2RA	K7204	06/10/04	1333
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
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FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Lab File ID: KD359 DFTPP Injection Date: 06/14/04

Instrument ID: GCMS-K DFTPP Injection Time: 0948

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	74.1
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	40.0 - 60.0% of mass 198	57.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.6
275	10.0 - 30.0% of mass 198	19.6
365	1.0 - 100.0% of mass 198	2.2
441	0.0 - 100.0% of mass 443	9.5 (89.6)2
442	40.0 - 100.0% of mass 198	56.4
443	17.0 - 23.0% of mass 442	10.6 (18.9)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00K0614	K7231	06/14/04	1019
02		SSTD3.00K0614	K7232	06/14/04	1112
03		SSTD2.00K0614	K7233	06/14/04	1205
04		SSTD0.50K0614	K7234	06/14/04	1258
05		SSTD0.20K0614	K7235	06/14/04	1352
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Lab File ID: KD360 DFTPP Injection Date: 06/14/04

Instrument ID: GCMS-K DFTPP Injection Time: 1438

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	59.3
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	40.0 - 60.0% of mass 198	46.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.5
275	10.0 - 30.0% of mass 198	25.0
365	1.0 - 100.0% of mass 198	3.2
441	0.0 - 100.0% of mass 443	16.6 (84.0)2
442	40.0 - 100.0% of mass 198	96.7
443	17.0 - 23.0% of mass 442	19.8 (20.5)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00K0614	K7237	06/14/04	1604
02	G01-MW-01-0504MS	WG7938-3	K7238	06/14/04	1657
03	G01-MW-01-0504MSD	WG7938-4	K7239	06/14/04	1751
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Lab File ID: KD366 DFTPP Injection Date: 06/22/04

Instrument ID: GCMS-K DFTPP Injection Time: 1128

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	44.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	52.9
70	Less than 2.0% of mass 69	0.1 (0.3)1
127	40.0 - 60.0% of mass 198	48.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 30.0% of mass 198	19.1
365	1.0 - 100.0% of mass 198	1.5
441	0.0 - 100.0% of mass 443	7.9 (84.2)2
442	40.0 - 100.0% of mass 198	45.5
443	17.0 - 23.0% of mass 442	9.4 (20.6)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00K0622	K7304	06/22/04	1159
02		SSTD3.00K0622	K7305	06/22/04	1251
03		SSTD2.00K0622	K7306	06/22/04	1345
04		SSTD0.50K0622	K7307	06/22/04	1437
05		SSTD0.20K0622	K7308	06/22/04	1531
06	G01-MW-01-0504	WU1571-1	K7314	06/22/04	2053
07	KW-RINS-01-0504	WU1571-2	K7315	06/22/04	2146
08	G01-MW-01A-0504	WU1552-1	K7316	06/22/04	2240
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Lab File ID: KD367 DFTPP Injection Date: 06/23/04

Instrument ID: GCMS-K DFTPP Injection Time: 0831

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	52.6
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	45.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	21.2
365	1.0 - 100.0% of mass 198	1.6
441	0.0 - 100.0% of mass 443	9.0 (83.4)2
442	40.0 - 100.0% of mass 198	52.1
443	17.0 - 23.0% of mass 442	10.8 (20.8)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00K0623	K7317	06/23/04	0954
02	G01-MW-07-0504	WU1552-2	K7318	06/23/04	1050
03	G01-MW-08-0504	WU1552-4	K7319	06/23/04	1143
04	G01-MW-09-0504	WU1552-6	K7320	06/23/04	1238
05	KW-DUP-02-0504	WU1552-8	K7321	06/23/04	1332
06					
07					
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Lab File ID: KD369 DFTPP Injection Date: 06/25/04

Instrument ID: GCMS-K DFTPP Injection Time: 0840

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	42.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	47.1
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	43.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	19.5
365	1.0 - 100.0% of mass 198	1.4
441	0.0 - 100.0% of mass 443	8.5 (90.7)2
442	40.0 - 100.0% of mass 198	46.9
443	17.0 - 23.0% of mass 442	9.3 (19.9)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00K0625	K7343	06/25/04	0905
02	G01-MW-08-0504	WU1552-4DL	K7346	06/25/04	1145
03	G01-MW-09-0504	WU1552-6DL	K7347	06/25/04	1238
04					
05					
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07					
08					
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11					
12					
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19					
20					

FORM V SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-K Calibration Date(s): 06/08/04 06/08/04

Column: DB5-MS ID: 0.25 (mm) Calibration Time(s): 1301 1737

LAB FILE ID: RF0.2: K7180 RF0.5: K7179 RF1: K7181
RF2: K7177 RF3: K7176

COMPOUND	RF0.2	RF0.5	RF1	RF2	RF3	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2	
Naphthalene	0.686	0.726	0.650	0.652	0.642	AVRG		0.67156474	5.230	15.000	
2-Methylnaphthalene	4205	13409	33385	75762	117160	LINR	0.11243513	2.90541502	0.99673	0.99000	
Acenaphthylene	7300	20126	45376	106890	171880	LINR	9.698e-002	1.07193788	0.99192	0.99000	
Acenaphthene	6163	23696	44184	75927	124500	LINR	-6.3e-002	1.53971908	0.99530	0.99000	
Fluorene	0.557	0.717	0.638	0.746	0.656	AVRG		0.66297607	11.144	15.000	
Phenanthrene	0.509	0.547	0.538	0.631	0.632	AVRG		0.57151698	9.884	15.000	
Anthracene	0.672	0.768	0.689	0.704	0.675	AVRG		0.70157749	5.588	15.000	
Fluoranthene	0.416	0.478	0.453	0.572	0.555	AVRG		0.49481016	13.466	15.000	
Pyrene	1.234	1.371	1.546	1.174	1.209	AVRG		1.30657026	11.739	15.000	
Benzo(a)anthracene	0.255	0.323	0.334	0.415	0.536	AVRG		0.37283086	28.830	15.000	<-
Chrysene	1.164	1.330	1.281	0.998	1.053	AVRG		1.16520959	12.231	15.000	
Benzo(b)fluoranthene	0.328	0.435	0.428	0.496	0.643	AVRG		0.46606301	24.906	15.000	<-
Benzo(k)fluoranthene	1.127	1.457	1.475	1.441	1.391	AVRG		1.37833798	10.431	15.000	
Benzo(a)pyrene	0.631	0.684	0.796	0.797	0.820	AVRG		0.74568763	11.134	15.000	
Indeno(1,2,3-cd)pyrene	0.599	0.592	0.570	0.607	0.649	AVRG		0.60368619	4.803	15.000	
Dibenzo(a,h)anthracene	0.476	0.424	0.328	0.405	0.444	AVRG		0.41554173	13.286	15.000	
Benzo(g,h,i)perylene	0.758	0.932	0.886	0.838	0.820	AVRG		0.84662871	7.778	15.000	
1-Methylnaphthalene	0.376	0.400	0.386	0.391	0.352	AVRG		0.38094818	4.842	15.000	
2-Methylnaphthalene-d10	0.207	0.235	0.260	0.245	0.225	AVRG		0.23443460	8.653	15.000	
Fluorene-d10	0.533	0.597	0.600	0.687	0.620	AVRG		0.60737199	9.107	15.000	
Pyrene-d10	0.760	0.827	0.928	0.741	0.782	AVRG		0.80788531	9.202	15.000	

Average %RSD test result.

Calculate Average %RSD: 13.40394115
Maximum Average %RSD: 30.00000000

Note: Passes Average %RSD Test.

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-K Calibration Date(s): 06/14/04 06/14/04

Column: DB5-MS ID: 0.25 (mm) Calibration Time(s): 1019 1352

LAB FILE ID: RF0.2: K7235 RF0.5: K7234 RF1: K7231
RF2: K7233 RF3: K7232

COMPOUND	RF0.2	RF0.5	RF1	RF2	RF3	CURVE	COEFF. A1	%RSD OR R^2	MAX %RSD OR R^2	
Naphthalene	0.922	0.856	0.914	0.846	0.747	AVRG	0.85722088	8.198	15.000	
2-Methylnaphthalene	0.351	0.399	0.422	0.432	0.404	AVRG	0.40161943	7.843	15.000	
Acenaphthylene	1.363	1.331	0.992	1.235	1.428	AVRG	1.26973593	13.407	15.000	
Acenaphthene	0.943	1.235	0.765	0.876	0.980	AVRG	0.96000277	18.162	15.000	<-
Fluorene	0.962	1.025	0.836	0.847	0.941	AVRG	0.92215576	8.675	15.000	
Phenanthrene	0.740	0.674	1.002	0.851	0.800	AVRG	0.81349955	15.300	15.000	<-
Anthracene	0.962	0.941	0.979	1.024	0.957	AVRG	0.97272587	3.255	15.000	
Fluoranthene	0.719	0.725	0.935	0.841	0.815	AVRG	0.80706379	11.107	15.000	
Pyrene	1.188	1.172	1.387	1.096	1.000	AVRG	1.16861558	12.245	15.000	
Benzo(a)anthracene	0.459	0.564	0.619	0.680	0.634	AVRG	0.59137260	14.304	15.000	
Chrysene	1.531	1.068	1.204	1.014	0.870	AVRG	1.13743307	22.032	15.000	<-
Benzo(b)fluoranthene	0.624	0.700	0.982	1.094	0.932	AVRG	0.86647660	22.768	15.000	<-
Benzo(k)fluoranthene	2.139	1.883	1.611	1.737	1.504	AVRG	1.77480352	13.958	15.000	
Benzo(a)pyrene	0.869	1.025	1.087	1.140	1.034	AVRG	1.03097019	9.867	15.000	
Indeno(1,2,3-cd)pyrene	0.855	0.956	1.157	1.024	0.952	AVRG	0.98866853	11.281	15.000	
Dibenzo(a,h)anthracene	0.544	0.635	0.811	0.687	0.650	AVRG	0.66546878	14.566	15.000	
Benzo(g,h,i)perylene	1.003	1.264	1.218	1.109	0.984	AVRG	1.11537021	11.213	15.000	
1-Methylnaphthalene	0.553	0.521	0.514	0.493	0.439	AVRG	0.50390750	8.414	15.000	
2-Methylnaphthalene-d10	0.320	0.436	0.396	0.349	0.310	AVRG	0.36210977	14.602	15.000	
Fluorene-d10	1.014	0.965	0.815	0.848	0.975	AVRG	0.92335312	9.391	15.000	
Pyrene-d10	0.834	0.854	0.890	0.822	0.733	AVRG	0.82674062	7.058	15.000	

Average %RSD test result.

Calculate Average %RSD: 13.42246437
Maximum Average %RSD: 30.00000000

Note: Passes Average %RSD Test.

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-K Calibration Date(s): 06/22/04 06/22/04

Column: DB5-MS ID: 0.25 (mm) Calibration Time(s): 1159 1531

LAB FILE ID: RF0.2: K7308 RF0.5: K7307 RF1: K7304
RF2: K7306 RF3: K7305

COMPOUND	RF0.2	RF0.5	RF1	RF2	RF3	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
Naphthalene	0.790	0.799	0.744	0.668	0.633	AVRG		0.72709902	10.152	15.000
2-Methylnaphthalene	9740	17670	39147	75730	92939	LINR	-0.1473856	2.82244534	0.99334	0.99000
Acenaphthylene	1.317	1.298	1.084	1.281	1.263	AVRG		1.24848080	7.549	15.000
Acenaphthene	0.859	0.846	0.779	0.864	0.756	AVRG		0.82094240	6.055	15.000
Fluorene	0.922	0.883	0.718	0.817	0.826	AVRG		0.83313886	9.312	15.000
Phenanthrene	0.891	0.898	0.774	0.718	0.677	AVRG		0.79144366	12.656	15.000
Anthracene	0.751	0.724	0.619	0.620	0.605	AVRG		0.66398058	10.282	15.000
Fluoranthene	0.684	0.694	0.702	0.664	0.615	AVRG		0.67205900	5.206	15.000
Pyrene	9021	15883	40200	82355	103200	LINR	-0.1355409	0.61875482	0.99544	0.99000
Benzo(a)anthracene	1.170	1.061	1.191	1.070	1.180	AVRG		1.13420957	5.610	15.000
Chrysene	1.425	1.271	1.193	1.120	1.139	AVRG		1.22950215	10.077	15.000
Benzo(b)fluoranthene	1.722	1.477	1.321	1.392	1.269	AVRG		1.43632017	12.367	15.000
Benzo(k)fluoranthene	1.847	1.550	1.563	1.368	1.461	AVRG		1.55763992	11.543	15.000
Benzo(a)pyrene	1.459	1.249	1.134	1.063	1.153	AVRG		1.21157542	12.655	15.000
Indeno(1,2,3-cd)pyrene	1.356	1.161	1.099	1.117	1.195	AVRG		1.18586968	8.638	15.000
Dibenzo(a,h)anthracene	0.835	0.754	0.769	0.790	0.865	AVRG		0.80280011	5.798	15.000
Benzo(g,h,i)perylene	1.513	1.279	1.124	1.136	1.153	AVRG		1.24112237	13.223	15.000
1-Methylnaphthalene	0.479	0.468	0.435	0.376	0.358	AVRG		0.42331072	12.815	15.000
2-Methylnaphthalene-d10	0.357	0.344	0.316	0.270	0.257	AVRG		0.30884514	14.310	15.000
Fluorene-d10	0.856	0.886	0.769	0.852	0.870	AVRG		0.84663952	5.363	15.000
Pyrene-d10	6115	11850	29847	65384	81539	LINR	-8.92e-002	0.77476291	0.99705	0.99000

Average %RSD test result.

Calculate Average %RSD: 11.14289379
Maximum Average %RSD: 30.00000000

Note: Passes Average %RSD Test.

FORM VI SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-K Calibration Date: 06/10/04 Time: 1142

Lab File ID: K7202 Init. Calib. Date(s): 06/08/04 06/08/04

Init. Calib. Times: 1301 1737

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Naphthalene	0.6710000	0.6557400	0.6557400	0.01	-2.27	100.00	AVRG	
2-Methylnaphthalene	0.9822200	1.0000000	0.3071000	0.01	-1.78	100.00	LINR	
Acenaphthylene	1.0354000	1.0000000	0.8935500	0.01	3.54	100.00	LINR	
Acenaphthene	1.1898000	1.0000000	0.8055000	0.01	18.98	20.00	LINR	
Fluorene	0.6630000	0.7088900	0.7088900	0.01	6.92	100.00	AVRG	
Phenanthrene	0.5710000	0.6001600	0.6001600	0.01	5.11	100.00	AVRG	
Anthracene	0.7020000	0.6591300	0.6591300	0.01	-6.11	100.00	AVRG	
Fluoranthene	0.4950000	0.3943800	0.3943800	0.01	-20.33	20.00	AVRG	<-
Pyrene	1.3070000	1.4858000	1.4858000	0.01	13.68	100.00	AVRG	
Benzo(a)anthracene	0.3730000	0.3610700	0.3610700	0.01	-3.20	100.00	AVRG	
Chrysene	1.1650000	1.0736000	1.0736000	0.01	-7.84	100.00	AVRG	
Benzo(b)fluoranthene	0.4660000	0.3952600	0.3952600	0.01	-15.18	100.00	AVRG	
Benzo(k)fluoranthene	1.3780000	1.3326000	1.3326000	0.01	-3.29	100.00	AVRG	
Benzo(a)pyrene	0.7460000	0.8061800	0.8061800	0.01	8.07	20.00	AVRG	
Indeno(1,2,3-cd)pyrene	0.6030000	0.6996500	0.6996500	0.01	16.03	100.00	AVRG	
Dibenzo(a,h)anthracene	0.4150000	0.5089300	0.5089300	0.01	22.63	100.00	AVRG	
Benzo(g,h,i)perylene	0.8470000	0.9793900	0.9793900	0.01	15.63	100.00	AVRG	
1-Methylnaphthalene	0.3810000	0.3767200	0.3767200	0.01	-1.12	100.00	AVRG	
2-Methylnaphthalene-d10	0.2340000	0.2750800	0.2750800	0.01	17.56	100.00	AVRG	
Fluorene-d10	0.6070000	0.6703000	0.6703000	0.01	10.43	100.00	AVRG	
Pyrene-d10	0.8080000	0.9672200	0.9672200	0.01	19.70	100.00	AVRG	

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-K Calibration Date: 06/14/04 Time: 1604

Lab File ID: K7237 Init. Calib. Date(s): 06/14/04 06/14/04

Init. Calib. Times: 1019 1352

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF OR AMOUNT	RRF1.0000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	0.8570000	0.8730000	0.01	1.87	100.00	AVRG
2-Methylnaphthalene	0.4020000	0.4088100	0.01	1.69	100.00	AVRG
Acenaphthylene	1.2700000	1.3884000	0.01	9.32	100.00	AVRG
Acenaphthene	0.9600000	1.1292000	0.01	17.62	20.00	AVRG
Fluorene	0.9220000	0.9661100	0.01	4.78	100.00	AVRG
Phenanthrene	0.8130000	0.7890300	0.01	-2.95	100.00	AVRG
Anthracene	0.9730000	0.9051700	0.01	-6.97	100.00	AVRG
Fluoranthene	0.8070000	0.6865800	0.01	-14.92	20.00	AVRG
Pyrene	1.1690000	1.1599000	0.01	-0.78	100.00	AVRG
Benzo(a)anthracene	0.5910000	0.5193000	0.01	-12.13	100.00	AVRG
Chrysene	1.1370000	1.1067000	0.01	-2.66	100.00	AVRG
Benzo(b)fluoranthene	0.8660000	0.6953100	0.01	-19.71	100.00	AVRG
Benzo(k)fluoranthene	1.7750000	2.1953000	0.01	23.68	100.00	AVRG
Benzo(a)pyrene	1.0310000	1.2114000	0.01	17.50	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.9890000	0.8238000	0.01	-16.70	100.00	AVRG
Dibenzo(a,h)anthracene	0.6650000	0.5515700	0.01	-17.06	100.00	AVRG
Benzo(g,h,i)perylene	1.1160000	1.0462000	0.01	-6.25	100.00	AVRG
1-Methylnaphthalene	0.5040000	0.5118200	0.01	1.55	100.00	AVRG
2-Methylnaphthalene-d10	0.3620000	0.3677200	0.01	1.58	100.00	AVRG
Fluorene-d10	0.9230000	1.0084000	0.01	9.25	100.00	AVRG
Pyrene-d10	0.8270000	0.8336800	0.01	0.81	100.00	AVRG

FORM VII PEST

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-K Calibration Date: 06/23/04 Time: 0954

Lab File ID: K7317 Init. Calib. Date(s): 06/22/04 06/22/04

Init. Calib. Times: 1159 1531

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Naphthalene	0.7270000	0.7734300	0.7734300	0.01	6.39	100.00	AVRG
2-Methylnaphthalene	1.0531000	1.0000000	0.4148900	0.01	5.31	100.00	LINR
Acenaphthylene	1.2490000	1.0184000	1.0184000	0.01	-18.46	100.00	AVRG
Acenaphthene	0.8210000	0.8164500	0.8164500	0.01	-0.55	20.00	AVRG
Fluorene	0.8330000	0.7372200	0.7372200	0.01	-11.50	100.00	AVRG
Phenanthrene	0.7920000	0.8231200	0.8231200	0.01	3.93	100.00	AVRG
Anthracene	0.6640000	0.6493000	0.6493000	0.01	-2.21	100.00	AVRG
Fluoranthene	0.6720000	0.6068800	0.6068800	0.01	-9.69	20.00	AVRG
Pyrene	1.0172000	1.0000000	1.8192000	0.01	1.72	100.00	LINR
Benzo(a)anthracene	1.1340000	0.8781500	0.8781500	0.01	-22.56	100.00	AVRG
Chrysene	1.2300000	1.2049000	1.2049000	0.01	-2.04	100.00	AVRG
Benzo(b)fluoranthene	1.4360000	1.5614000	1.5614000	0.01	8.73	100.00	AVRG
Benzo(k)fluoranthene	1.5580000	1.8036000	1.8036000	0.01	15.76	100.00	AVRG
Benzo(a)pyrene	1.2120000	1.1715000	1.1715000	0.01	-3.34	20.00	AVRG
Indeno(1,2,3-cd)pyrene	1.1860000	1.2410000	1.2410000	0.01	4.64	100.00	AVRG
Dibenzo(a,h)anthracene	0.8030000	0.9320300	0.9320300	0.01	16.07	100.00	AVRG
Benzo(g,h,i)perylene	1.2410000	1.4754000	1.4754000	0.01	18.89	100.00	AVRG
1-Methylnaphthalene	0.4230000	0.4041800	0.4041800	0.01	-4.45	100.00	AVRG
2-Methylnaphthalene-d10	0.3090000	0.2968600	0.2968600	0.01	-3.93	100.00	AVRG
Fluorene-d10	0.8470000	0.8145600	0.8145600	0.01	-3.83	100.00	AVRG
Pyrene-d10	0.9244600	1.0000000	1.2854000	0.01	-7.55	100.00	LINR

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO 301,318 NAS KEY WEST SDG No.: CTO301318-2

Instrument ID: GCMS-K Calibration Date: 06/25/04 Time: 0905

Lab File ID: K7343 Init. Calib. Date(s): 06/22/04 06/22/04

Init. Calib. Times: 1159 1531

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Naphthalene	0.7270000	0.8037200	0.8037200	0.01	10.55	100.00	AVRG
2-Methylnaphthalene	1.1494000	1.0000000	0.4490100	0.01	14.94	100.00	LINR
Acenaphthylene	1.2490000	1.3064000	1.3064000	0.01	4.60	100.00	AVRG
Acenaphthene	0.8210000	0.8153200	0.8153200	0.01	-0.69	20.00	AVRG
Fluorene	0.8330000	0.8790100	0.8790100	0.01	5.52	100.00	AVRG
Phenanthrene	0.7920000	0.8486700	0.8486700	0.01	7.16	100.00	AVRG
Anthracene	0.6640000	0.7105400	0.7105400	0.01	7.01	100.00	AVRG
Fluoranthene	0.6720000	0.7441000	0.7441000	0.01	10.73	20.00	AVRG
Pyrene	0.9988900	1.0000000	1.7896000	0.01	-0.11	100.00	LINR
Benzo(a)anthracene	1.1340000	1.1055000	1.1055000	0.01	-2.51	100.00	AVRG
Chrysene	1.2300000	1.2089000	1.2089000	0.01	-1.72	100.00	AVRG
Benzo(b)fluoranthene	1.4360000	1.3335000	1.3335000	0.01	-7.14	100.00	AVRG
Benzo(k)fluoranthene	1.5580000	1.9453000	1.9453000	0.01	24.86	100.00	AVRG
Benzo(a)pyrene	1.2120000	1.2454000	1.2454000	0.01	2.76	20.00	AVRG
Indeno(1,2,3-cd)pyrene	1.1860000	1.1712000	1.1712000	0.01	-1.25	100.00	AVRG
Dibenzo(a,h)anthracene	0.8030000	0.8935000	0.8935000	0.01	11.27	100.00	AVRG
Benzo(g,h,i)perylene	1.2410000	1.1571000	1.1571000	0.01	-6.76	100.00	AVRG
1-Methylnaphthalene	0.4230000	0.4504600	0.4504600	0.01	6.49	100.00	AVRG
2-Methylnaphthalene-d10	0.3090000	0.3233900	0.3233900	0.01	4.66	100.00	AVRG
Fluorene-d10	0.8470000	0.8983700	0.8983700	0.01	6.06	100.00	AVRG
Pyrene-d10	1.0153000	1.0000000	1.4026000	0.01	1.53	100.00	LINR

FORM VII PEST

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **C. BRYAN** **DATE:** **JULY 9, 2004**

FROM: **ETHAN G. LEE** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – SELECT METALS AND MISCELLANEOUS PARAMETERS**
NAS KEY WEST – CTO 318
SAMPLE DELIVERY GROUP (SDG) – 3182

SAMPLES: 7/AQUEOUS/

G01-MW-01-0504	G01-MW-01A-0504	G01-MW-07-0504
G01-MW-08-0504	G01-MW-09-0504	KW-DUP-02-0504
KW-RINS-01-0504		

Overview

The sample set for NAS Key West, CTO 318, SDG 3182, consists of six (6) aqueous environmental samples and one (1) rinse blank. One (1) field duplicate pair (KW-DUP-02-0504 / G01-MW-07-0504) was included in this SDG.

Samples G01-MW-01-0504, G01-MW-01A-0504, and KW-RINS-01-0504 were analyzed for lead. Samples G01-MW-07-0504, G01-MW-08-0504, G01-MW-09-0504, and KW-DUP-02-0504 were analyzed for arsenic, cadmium, chromium, and lead. All samples except KW-RINS-01-0504 were also analyzed for nitrate and sulfate. The samples were collected by Tetra Tech NUS on May 25-26, 2004 and analyzed by Katahdin Analytical Services. Metals analyses were conducted using SW846 method 6010B. Nitrate analyses were conducted using EPA method 353.2. Sulfate analyses were conducted using EPA method 375.4.

Metals analyses were conducted using Inductively Coupled Plasma (ICP) methodologies.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
* • Laboratory Blank Analyses
* • Field Duplicate Results
  • Detection Limits

Laboratory Blank Analyses

The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Action Level
Chromium	1.04 ug/L	5.20 ug/L
Lead[(1)]	2.56 ug/L	12.8 ug/L

[(1)] Maximum concentration found in laboratory preparation blank.

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. No analytes were qualified for laboratory blank contamination because all results were nondetects. It should be noted that the rinse blank was not qualified for laboratory blank contamination.

Detection Limits

The positive results reported for nitrate between the laboratory's practical quantitation limit (PQL) and the method detection limit (MDL) were qualified as estimated (J) due to uncertainty near the detection limit.

Executive Summary

Laboratory Performance: No laboratory quality control issues were noted for this SDG.

Other Factors Affecting Data Quality: Nitrate was qualified due to uncertainty near the detection limit.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", July 2002 and the NFESC document entitled "Navy IRCDQM" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Ethan G. Lee
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's r < 0.995
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient r < 0.995
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: M

nsample	G01-MW-01-0504
samp_date	5/26/2004
lab_id	WU1571-001
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1.7	U	

nsample	G01-MW-01A-0504
samp_date	5/25/2004
lab_id	WU1552-001
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1.7	U	

nsample	G01-MW-07-0504
samp_date	5/25/2004
lab_id	WU1552-002
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	3.03	U	
CADMIUM	0.3	U	
CHROMIUM	0.8	U	
LEAD	1.7	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: M

nsample	G01-MW-08-0504	nsample	G01-MW-09-0504	nsample	KW-DUP-02-0504
samp_date	5/25/2004	samp_date	5/25/2004	samp_date	5/25/2004
lab_id	WU1552-004	lab_id	WU1552-006	lab_id	WU1552-008
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	G01-MW-07-0504

Parameter	Result	Val Qual	Qual Code
ARSENIC	3.03	U	
CADMIUM	0.3	U	
CHROMIUM	0.8	U	
LEAD	1.7	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	3.03	U	
CADMIUM	0.3	U	
CHROMIUM	0.8	U	
LEAD	1.7	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	6.1		
CADMIUM	0.3	U	
CHROMIUM	0.8	U	
LEAD	1.7	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: M

nsample	KW-RINS-01-0504
samp_date	5/26/2004
lab_id	WU1571-002
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
LEAD	1.7	U	

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: MISC

nsample	G01-MW-01-0504
samp_date	5/26/2004
lab_id	WU1571-1
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.25	U	
SULFATE	MG/L	1500		

nsample	G01-MW-01A-0504
samp_date	5/25/2004
lab_id	WU1552-1
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.011	J	P
SULFATE	MG/L	1900		

nsample	G01-MW-07-0504
samp_date	5/25/2004
lab_id	WU1552-2
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.03	J	P
SULFATE	MG/L	1800		

PROJ_NO: 4779

SDG: 3182 MEDIA: WATER DATA FRACTION: MISC

nsample	G01-MW-08-0504
samp_date	5/25/2004
lab_id	WU1552-4
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.25		
SULFATE	MG/L	170		

nsample	G01-MW-09-0504
samp_date	5/25/2004
lab_id	WU1552-6
qc_type	NM
Pct_Solids	
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.0079	J	P
SULFATE	MG/L	540		

nsample	KW-DUP-02-0504
samp_date	5/25/2004
lab_id	WU1552-8
qc_type	NM
Pct_Solids	
DUP_OF:	G01-MW-07-0504

Parameter	units	Result	Val Qual	Qual Code
NITRATE-N	MG/L	0.05	U	
SULFATE	MG/L	1700		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-01-0504

Matrix: WATER **SDG Name:** CTO301318-2

Percent Solids: 0.00 **Lab Sample ID:** WU1571-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1.70	U		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-01A-0504

Matrix: WATER **SDG Name:** CTO301318-2

Percent Solids: 0.00 **Lab Sample ID:** WU1552-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1.70	U		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-07-0504

Matrix: WATER **SDG Name:** CTO301318-2

Percent Solids: 0.00 **Lab Sample ID:** WU1552-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, TOTAL	3.03	U		P	1	8.0	3.03
7440-43-9	CADMIUM, TOTAL	0.30	U		P	1	10	0.30
7440-47-3	CHROMIUM, TOTAL	0.80	U		P	1	15	0.80
7439-92-1	LEAD, TOTAL	1.70	U		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-08-0504

Matrix: WATER **SDG Name:** CTO301318-2

Percent Solids: 0.00 **Lab Sample ID:** WU1552-004

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, TOTAL	3.03	U		P	1	8.0	3.03
7440-43-9	CADMIUM, TOTAL	0.30	U		P	1	10	0.30
7440-47-3	CHROMIUM, TOTAL	0.80	U		P	1	15	0.80
7439-92-1	LEAD, TOTAL	1.70	U		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** G01-MW-09-0504

Matrix: WATER **SDG Name:** CTO301318-2

Percent Solids: 0.00 **Lab Sample ID:** WU1552-006

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, TOTAL	3.03	U		P	1	8.0	3.03
7440-43-9	CADMIUM, TOTAL	0.30	U		P	1	10	0.30
7440-47-3	CHROMIUM, TOTAL	0.80	U		P	1	15	0.80
7439-92-1	LEAD, TOTAL	1.70	U		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** KW-DUP-02-0504

Matrix: WATER **SDG Name:** CTO301318-2

Percent Solids: 0.00 **Lab Sample ID:** WU1552-008

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, TOTAL	6.1	B		P	1	8.0	3.03
7440-43-9	CADMIUM, TOTAL	0.30	U		P	1	10	0.30
7440-47-3	CHROMIUM, TOTAL	0.80	U		P	1	15	0.80
7439-92-1	LEAD, TOTAL	1.70	U		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** KW-RINS-01-0504

Matrix: WATER **SDG Name:** CTO301318-2

Percent Solids: 0.00 **Lab Sample ID:** WU1571-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7439-92-1	LEAD, TOTAL	1.70	U		P	1	5.0	1.70

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU1571-1
Report Date: 21-JUN-04
Client PO: MSA-0402-N4113-05 N4779-
Project: CTO 301,318 NAS KEY WEST
SDG: CTO301/318-2

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-01-0504	AQ	26-MAY-04	27-MAY-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	U0.25 mg/L	.25	EPA 353.2	WG7830	27-MAY-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	1500 mg/L	100	EPA 375.4	WG8204	17-JUN-04	KGT	N/A	N/A	N/A	

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU1552-1
Report Date: 21-JUN-04
Client PO: MSA-0402-N4113-05 N4779-
Project: CTO 301,318 NAS KEY WEST
SDG: CTO301/318-2

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-01A-0504	AQ	25-MAY-04	26-MAY-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	J0.011 mg/L	.05	EPA 353.2	WG7799	26-MAY-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	1900 mg/L	75	EPA 375.4	WG8204	17-JUN-04	KGT	N/A	N/A	N/A	

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU1552-2
Report Date: 21-JUN-04
Client PO: MSA-0402-N4113-05 N4779-
Project: CTO 301,318 NAS KEY WEST
SDG: CTO301/318-2

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-07-0504	AQ	25-MAY-04	26-MAY-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	J0.030 mg/L	.05	EPA 353.2	WG7799	26-MAY-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	1800 mg/L	75	EPA 375.4	WG8204	17-JUN-04	KGT	N/A	N/A	N/A	

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU1552-4
Report Date: 21-JUN-04
Client PO: MSA-0402-N4113-05 N4779-
Project: CTO 301,318 NAS KEY WEST
SDG: CTO301/318-2

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-08-0504	AQ	25-MAY-04	26-MAY-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	0.25 mg/L	.05	EPA 353.2	WG7799	26-MAY-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	170 mg/L	10	EPA 375.4	WG8204	17-JUN-04	KGT	N/A	N/A	N/A	

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU1552-6
Report Date: 21-JUN-04
Client PO: MSA-0402-N4113-05 N4779-
Project: CTO 301,318 NAS KEY WEST
SDG: CTO301/318-2

Sample Description	Matrix	Date Sampled	Date Received
G01-MW-09-0504	AQ	25-MAY-04	26-MAY-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	J0.0079 mg/L	.05	EPA 353.2	WG7799	26-MAY-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	540 mg/L	20	EPA 375.4	WG8204	17-JUN-04	KGT	N/A	N/A	N/A	

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU1552-8
Report Date: 21-JUN-04
Client PO: MSA-0402-N4113-05 N4779-
Project: CTO 301,318 NAS KEY WEST
SDG: CTO301/318-2

Sample Description	Matrix	Date Sampled	Date Received
KW-DUP-02-0504	AQ	25-MAY-04	26-MAY-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Nitrate As N	U0.050 mg/L	.05	EPA 353.2	WG7799	26-MAY-04	PAG	N/A	N/A	N/A	
Sulfate-Turbidimetric	1700 mg/L	75	EPA 375.4	WG8204	17-JUN-04	KGT	N/A	N/A	N/A	

APPENDIX C

SUPPORT DOCUMENTATION

HOLDTIME

SDG 3182

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	G01-MW-01A-0504	WU1552-001	NM	05/25/2004	06/14/2004	06/16/2004	20	2	22
M	UG/L	G01-MW-07-0504	WU1552-002	NM	05/25/2004	06/14/2004	06/16/2004	20	2	22
M	UG/L	G01-MW-08-0504	WU1552-004	NM	05/25/2004	06/14/2004	06/16/2004	20	2	22
M	UG/L	G01-MW-09-0504	WU1552-006	NM	05/25/2004	06/14/2004	06/16/2004	20	2	22
M	UG/L	KW-DUP-02-0504	WU1552-008	NM	05/25/2004	06/14/2004	06/16/2004	20	2	22
M	UG/L	KW-RINS-01-0504	WU1571-002	NM	05/26/2004	06/14/2004	06/16/2004	19	2	21
M	UG/L	G01-MW-01-0504	WU1571-001	NM	05/26/2004	06/14/2004	06/16/2004	19	2	21
NTA	MG/L	G01-MW-01-0504	WU1571-1	NM	05/26/2004	05/27/2004	05/27/2004	1	0	1
NTA	MG/L	KW-DUP-02-0504	WU1552-8	NM	05/25/2004	05/26/2004	05/26/2004	1	0	1
NTA	MG/L	G01-MW-09-0504	WU1552-6	NM	05/25/2004	05/26/2004	05/26/2004	1	0	1
NTA	MG/L	G01-MW-08-0504	WU1552-4	NM	05/25/2004	05/26/2004	05/26/2004	1	0	1
NTA	MG/L	G01-MW-01A-0504	WU1552-1	NM	05/25/2004	05/26/2004	05/26/2004	1	0	1
NTA	MG/L	G01-MW-07-0504	WU1552-2	NM	05/25/2004	05/26/2004	05/26/2004	1	0	1
SO4	MG/L	G01-MW-07-0504	WU1552-2	NM	05/25/2004	06/17/2004	06/17/2004	23	0	23
SO4	MG/L	G01-MW-01A-0504	WU1552-1	NM	05/25/2004	06/17/2004	06/17/2004	23	0	23

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SO4	MG/L	G01-MW-01-0504	WU1571-1	NM	05/26/2004	06/17/2004	06/17/2004	22	0	22
SO4	MG/L	G01-MW-09-0504	WU1552-6	NM	05/25/2004	06/17/2004	06/17/2004	23	0	23
SO4	MG/L	KW-DUP-02-0504	WU1552-8	NM	05/25/2004	06/17/2004	06/17/2004	23	0	23
SO4	MG/L	G01-MW-08-0504	WU1552-4	NM	05/25/2004	06/17/2004	06/17/2004	23	0	23
OS	%	G01-MW-09-0504	WU1552-7	NM	05/25/2004	06/02/2004	06/19/2004	8	17	25
OS	%	G01-MW-01-0504	WU1571-1	NM	05/26/2004	06/02/2004	06/22/2004	7	20	27
OS	%	KW-RINS-01-0504	WU1571-2	NM	05/26/2004	06/02/2004	06/22/2004	7	20	27
OS	%	G01-MW-01A-0504	WU1552-1	NM	05/25/2004	06/02/2004	06/22/2004	8	20	28
OS	%	KW-DUP-02-0504	WU1552-8	NM	05/25/2004	06/02/2004	06/23/2004	8	21	29
OS	%	G01-MW-09-0504	WU1552-6	NM	05/25/2004	06/02/2004	06/23/2004	8	21	29
OS	%	G01-MW-08-0504	WU1552-5	NM	05/25/2004	06/02/2004	06/22/2004	8	20	28
OS	%	G01-MW-08-0504	WU1552-4	NM	05/25/2004	06/02/2004	06/23/2004	8	21	29
OS	%	G01-MW-07-0504	WU1552-3	NM	05/25/2004	06/02/2004	06/19/2004	8	17	25
OS	%	G01-MW-07-0504	WU1552-2	NM	05/25/2004	06/02/2004	06/23/2004	8	21	29
OS	%	KW-DUP-02-0504	WU1552-9	NM	05/25/2004	06/02/2004	06/19/2004	8	17	25
OS	UG/L	G01-MW-09-0504	WU1552-6	NM	05/25/2004	06/02/2004	06/23/2004	8	21	29
OS	UG/L	G01-MW-01-0504	WU1571-1	NM	05/26/2004	06/02/2004	06/22/2004	7	20	27
OS	UG/L	G01-MW-01A-0504	WU1552-1	NM	05/25/2004	06/02/2004	06/22/2004	8	20	28

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	UG/L	G01-MW-07-0504	WU1552-2	NM	05/25/2004	06/02/2004	06/23/2004	8	21	29
OS	UG/L	G01-MW-07-0504	WU1552-3	NM	05/25/2004	06/02/2004	06/19/2004	8	17	25
OS	UG/L	G01-MW-08-0504	WU1552-4	NM	05/25/2004	06/02/2004	06/23/2004	8	21	29
OS	UG/L	KW-RINS-01-0504	WU1571-2	NM	05/26/2004	06/02/2004	06/22/2004	7	20	27
OS	UG/L	G01-MW-08-0504	WU1552-5	NM	05/25/2004	06/02/2004	06/22/2004	8	20	28
OS	UG/L	KW-DUP-02-0504	WU1552-8	NM	05/25/2004	06/02/2004	06/23/2004	8	21	29
OS	UG/L	KW-DUP-02-0504	WU1552-9	NM	05/25/2004	06/02/2004	06/19/2004	8	17	25
OS	UG/L	G01-MW-09-0504	WU1552-7	NM	05/25/2004	06/02/2004	06/19/2004	8	17	25
OV	%	G01-MW-01-0504	WU1571-1	NM	05/26/2004	06/03/2004	06/04/2004	8	1	9
OV	%	G01-MW-01A-0504	WU1552-1RE	NM	05/25/2004	06/03/2004	06/03/2004	9	0	9
OV	%	G01-MW-07-0504	WU1552-2	NM	05/25/2004	06/02/2004	06/03/2004	8	1	9
OV	%	G01-MW-08-0504	WU1552-4	NM	05/25/2004	06/02/2004	06/03/2004	8	1	9
OV	%	G01-MW-09-0504	WU1552-6	NM	05/25/2004	06/02/2004	06/03/2004	8	1	9
OV	%	KW-DUP-02-0504	WU1552-8	NM	05/25/2004	06/03/2004	06/04/2004	9	1	10
OV	%	KW-RINS-01-0504	WU1571-2	NM	05/26/2004	06/03/2004	06/04/2004	8	1	9
OV	UG/L	G01-MW-09-0504	WU1552-6	NM	05/25/2004	06/02/2004	06/03/2004	8	1	9
OV	UG/L	KW-DUP-02-0504	WU1552-8	NM	05/25/2004	06/03/2004	06/04/2004	9	1	10
OV	UG/L	G01-MW-08-0504	WU1552-4	NM	05/25/2004	06/02/2004	06/03/2004	8	1	9

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	UG/L	G01-MW-01A-0504	WU1552-1RE	NM	05/25/2004	06/03/2004	06/03/2004	9	0	9
OV	UG/L	G01-MW-01-0504	WU1571-1	NM	05/26/2004	06/03/2004	06/04/2004	8	1	9
OV	UG/L	KW-RINS-01-0504	WU1571-2	NM	05/26/2004	06/03/2004	06/04/2004	8	1	9
OV	UG/L	G01-MW-07-0504	WU1552-2	NM	05/25/2004	06/02/2004	06/03/2004	8	1	9
TPH	%	G01-MW-09-0504	WU1552-6	NM	05/25/2004	05/28/2004	06/22/2004	3	25	28
TPH	%	KW-DUP-02-0504	WU1552-8	NM	05/25/2004	05/28/2004	06/23/2004	3	26	29
TPH	%	G01-MW-08-0504	WU1552-4	NM	05/25/2004	05/28/2004	06/22/2004	3	25	28
TPH	%	G01-MW-07-0504	WU1552-2	NM	05/25/2004	05/28/2004	06/22/2004	3	25	28
TPH	%	G01-MW-01A-0504	WU1552-1	NM	05/25/2004	05/28/2004	06/22/2004	3	25	28
TPH	%	G01-MW-01-0504	WU1571-1	NM	05/26/2004	05/28/2004	06/23/2004	2	26	28
TPH	%	KW-RINS-01-0504	WU1571-2	NM	05/26/2004	05/28/2004	06/23/2004	2	26	28
TPH	UG/L	KW-RINS-01-0504	WU1571-2	NM	05/26/2004	05/28/2004	06/23/2004	2	26	28
TPH	UG/L	G01-MW-01-0504	WU1571-1	NM	05/26/2004	05/28/2004	06/23/2004	2	26	28
TPH	UG/L	G01-MW-01A-0504	WU1552-1	NM	05/25/2004	05/28/2004	06/22/2004	3	25	28
TPH	UG/L	G01-MW-07-0504	WU1552-2	NM	05/25/2004	05/28/2004	06/22/2004	3	25	28
TPH	UG/L	G01-MW-08-0504	WU1552-4	NM	05/25/2004	05/28/2004	06/22/2004	3	25	28
TPH	UG/L	G01-MW-09-0504	WU1552-6	NM	05/25/2004	05/28/2004	06/22/2004	3	25	28
TPH	UG/L	KW-DUP-02-0504	WU1552-8	NM	05/25/2004	05/28/2004	06/23/2004	3	26	29

WW552

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 3835 | **PAGE** 1 **OF** 1

PROJECT NO:	**FACILITY:** NAS KEY WEST	**PROJECT MANAGER** EMILY McREE	**PHONE NUMBER** (803)649-7963	**LABORATORY NAME AND CONTACT:** KATHADIN-ANDREA COLBY
SAMPLERS (SIGNATURE) Gary Braganza		**FIELD OPERATIONS LEADER** GARY BRAGANZA	**PHONE NUMBER** 561)302-4137	**ADDRESS** 340 COUNTY RD No.5
		CARRIER/WAYBILL NUMBER FEDEX / 8425 8908 8818		**CITY, STATE** WESTBROOK, ME

STANDARD TAT ☑
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2004	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: PPL VOA's + BTEX MTBE	PAH	TRPH	EDB	Lead, Ar, Cd, Cr	Non-PPL Organics	Nitrate + Sulfate	Methane	COMMENTS
5/25	15:35	G01-MW-01A-0504	G01-MW-01A			GW	G	13	G		X	X	X	X	X		X	X	Lead only
	10:55	G01-MW-07-0504	G01-MW-07					20	G		X	X	X	X	X	X	X	X	TIC
	15:10	G01-MW-08-0504	G01-MW-08					20	G		X	X	X	X	X	X	X	X	TIC
	9:40	G01-MW-09-0504	G01-MW-09					20	G		X	X	X	X	X	X	X	X	TIC
		KW-DUP-02-0504				↓	↓	20	G		X	X	X	X	X	X	X	X	
		KWTB-052504																	

1. RELINQUISHED BY Gary Braganza	DATE 5/25/04	TIME	1. RECEIVED BY	DATE 5/26/04	TIME 0825
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

000013

CWU1571

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 3836 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
N4779	NAS KEY WEST	EMILY McREE	(803)649-7963	KATAHDIN LAB - ANDREA COLBY

SAMPLERS (SIGNATURE)	FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
Gary Braganza	GARY BRAGANZA	(561)302-4137	340 COUNTY RD NO. 5
	CARRIER/WAYBILL NUMBER		CITY, STATE
	FEDEX / 8425 8908 8932		WESTBROOK, ME

STANDARD TAT ☑
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G)

PRESERVATIVE USED

TYPE OF ANALYSIS

DATE YEAR 2004	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	PPL VOH's, BTEX + MTBE	PAH	TRPH	EDB	Lead	Nitrate + Sulfate	Methane		COMMENTS
5/26	10:15	G01-MW-01-0504	G01-MW-01			GW	G		X	X	X	X	X ✓	X ✓	X		MS/MSD
	9:30	KW-RINS-01-0504				QC			X	X	X	X	X ✓				

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY Gary Braganza	5/26/04		1. RECEIVED BY Gary Braganza	5/27/04	0905
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

0000011

Katahdin
ANALYTICAL SERVICES

Cert. No. E87604

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NAS KEY WEST; SDG: CTO301/318-2
WU1552, WU1564, WU1571
TASK ORDER MANAGER: EMILY MCREE

Sample Receipt

The following samples were received on May 26 and 27, 2004 and were logged in under Katahdin Analytical Services work order number WU1552, WU1564, and WU1571 for a hardcopy due date of June 22, 2004.

KATAHDIN Sample No.	TTNUS Sample Identification
WU1552-1	G01-MW-01A-0504
WU1552-2	G01-MW-07-0504
WU1552-3	G01-MW-07-0504
WU1552-4	G01-MW-08-0504
WU1552-5	G01-MW-08-0504
WU1552-6	G01-MW-09-0504
WU1552-7	G01-MW-09-0504
WU1552-8	KW-DUP-02-0504
WU1552-9	KW-DUP-02-0504
WU1564-1	G01-MW-07-0504
WU1564-2	G01-MW-08-0504
WU1564-3	G01-MW-09-0504
WU1564-4	KW-DUP-02-0504
WU1564-5	KWTB-052504
WU1571-1	G01-MW-01-0504
WU1571-2	KW-RINS-01-0504
WU1571-3	KWTB-052604

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Organics Laboratory

The samples of SDG CTO301/318-2 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, Office of Solid Waste and Emergency Response, U.S. EPA, and/or Method for Determination of Petroleum Range Organics (Method #FL-PRO), Florida Department of Environmental Protection, November 1, 1995, for the specific methods listed below or on the Report of Analysis. Sample WU1571-1 was used for a matrix spike (MS) and matrix spike duplicate (MSD) sample, as per client's request. Some manual integrations may have been performed due to split peaks and/or corrected baselines. All have been flagged with a "M" (software-generated) on the pertinent quantitation report.

8260B Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The acceptance limits for the MS/MSD are for a short list of the spiked compounds. Katahdin standard operating procedure is not to take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory contaminants acetone and methylene chloride) in the LCS are outside of the QC limits.

The MSD (WG7892-4) was analyzed 19 minutes out of the 12 hour analytical clock. The client was notified and informed the laboratory to report the analysis.

504 Analysis

There were no protocol deviations or observations noted by the organic laboratory staff for this analysis.

8100M-FLPRO Analysis

The method blank WG7859-1, the LCS WG7859-2, the MS WG7859-3, the MSD WG7859-4 and samples WU1552-1, 6 and WU1571-1 had low recoveries for the surrogate o-terphenyl, which were outside of the method acceptance limits. Since the recoveries for the second surrogate n-triacontane-D_{62} were within the method acceptance limits, the samples were not reanalyzed.

The calibration verification standards (CV) (files CUF2140 and CUF2154) had low responses for one or more hydrocarbons, which resulted in %D's that were greater than 20%. Since the method requirement applies to only the PRO range responses, which were acceptable, the associated samples were not reanalyzed.

8270C Scan Analysis

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The acceptance limits for the MS/MSD are for a short list of the spiked compounds. Katahdin standard operating procedure is not to take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory phthalate ester contaminants) in the LCS are outside of the QC limits.

The laboratory control sample duplicate (LCSD) WG7874-3RA had a high recovery for one surrogate, which was outside the laboratory established acceptance limits. Since the LCSD had acceptable spiked target analyte recoveries, the sample was not reanalyzed.

The calibration verification standard (CV) (file U7809) had a high response for the calibration check compound (CCC) pentachlorophenol, which resulted in a %D that was outside the method acceptance limit of 20%D. Since a high response would indicate a high bias and pentachlorophenol was not detected above the PQL in the associated sample, the sample was not reanalyzed.

8270C SIM Analysis

There were three initial calibrations performed for this SDG. The initial calibration analyzed on the K instrument on 06/08/04 had %RSD values for five analytes that exceeded the method acceptance limit of 15%. For these analytes, a linear model was used for quantitation instead of an average response factor. The analytes benzo(a)anthracene and benzo(b)fluoranthene also failed the linear model in the initial calibration curve due to the correlation coefficient being less than the method acceptance criteria of 0.990. These compounds were calibrated using the average model.

The initial calibration analyzed on the K instrument on 06/14/04 had %RSD values for three analytes that exceeded the method acceptance limit of 15%. The analytes acenaphthene, chrysene and benzo(b)fluoranthene also failed the linear model in the initial calibration curve due to the correlation coefficient being less than the method acceptance criteria of 0.990. These compounds were calibrated using the average model.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) and MS/MSD are nominal limits for the full list of spiked target compounds. Katahdin standard operating procedure is not to take corrective action until greater than ten percent of the spiked analytes (with the exception of the common laboratory phthalate ester contaminants) in the LCS are outside of the QC limits.

The MS/MSD (WG7938-3 and 4) had recoveries for three analytes that were low and outside of the laboratory acceptance limits. Since the associated LCS was acceptable, the samples were not reanalyzed.

There were no other protocol deviations or observations noted by the organic laboratory staff.

Metals Analysis

The samples of Katahdin SDG CTO301/318-2 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Aqueous Waste", SW-846, November 1986, Third Edition.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix Katahdin Sample Nos. WU1552-(1,2,4,6, and 8) and WU1571-(1-2) were digested for ICP analysis on 06/14/04 (QC Batch UF14ICW1) in accordance with USEPA Method 3010A. Katahdin Sample No. WU1571-1 was prepared with duplicate matrix-spiked aliquots.

ICP analyses of SDG CTO301/318-2 sample digestates were performed using a Thermo Jarrell Ash (TJA) Trace ICP spectrometer. All samples were analyzed within holding times and all analytical run QC criteria were met, with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question with the following exception:

Matrix QC Summary

One or both of the matrix-spiked aliquots of Katahdin Sample No. WU1571-1 was within the laboratory's acceptance criteria (75% - 125% recovery of the added element, if the native concentration is less than four times the amount added) for lead.

The matrix spike duplicate analysis of Katahdin Sample No. WU1571-1 was within the laboratory's acceptance limit (<20% relative difference between duplicate matrix spiked aliquots) for lead.

The serial dilution analyses of Katahdin Sample No. WU1571-1 was within the laboratory's ICP serial dilution acceptance limit (<10% difference between the original sample result and the result for a 5-fold dilution of the sample, if the result for the dilution is at least ten times the instrument detection limit) for lead.

Wet Chemistry Analysis

The samples of SDG CTO301/318-2 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for nitrate and sulfate were performed according "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, 1979 Revised 1983, U.S. EPA.

All Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limits (MDL). Measured concentrations that fall between the MDL and Katahdin's Practical Quantitation Limit (PQL) are flagged "J". Measured concentrations that are below the MDL are flagged "U" and reported as "U PQL", where "PQL" is the numerical value of the Practical Quantitation Limit.

All analyses were performed within analytical hold time. All quality control criteria were met with the following exceptions:

For Katahdin Sample No. WU1571-1, the matrix spike recovery (37%) and matrix spike duplicate recovery (43%) for sulfate is outside the laboratory's acceptance criteria

No other deviations were noted by the Wet Chemistry group.

Subcontracted Analysis

Analyses for Methane/Ethane/Ethene were performed by a subcontract laboratory. Please refer to the section of the data package titled Subcontracted Data.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

María Crouch
06.28.04
María Crouch
Quality Assurance Officer

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Katahdin Analytical Services

SDG Name: CTO301318-2 **SOW No.** SW846

Client Field ID	Lab Sample ID
G01-MW-01-0504	WU1571-001
G01-MW-01-0504	WU1571-001P
G01-MW-01-0504	WU1571-001S
G01-MW-01A-0504	WU1552-001
G01-MW-07-0504	WU1552-002
G01-MW-08-0504	WU1552-004
G01-MW-09-0504	WU1552-006
KW-DUP-02-0504	WU1552-008
KW-RINS-01-0504	WU1571-002

Were ICP interelement corrections applied ?	Yes
Were ICP background corrections applied ?	Yes
If yes - were raw data generated before application of background corrections ?	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Molly Fabbricante Name: Molly Fabbricante

Date: 6.17.04 Title: Chemist

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** CTO301318-2

Concentration Units: ug/L

SAMPLE: ICV

File: AUF16B Jun 16, 2004 10:42

Analyte	True	Found	%R (1)
ALUMINUM	20000.0	18366.18	91.8
ARSENIC	600.0	616.16	102.7
CADMIUM	1250.0	1260.86	100.9
CALCIUM	20000.0	20472.39	102.4
CHROMIUM	500.0	500.91	100.2
IRON	20000.0	20131.91	100.7
LEAD	550.0	567.86	103.2
MAGNESIUM	20000.0	21433.00	107.2

SAMPLE: CCV

File: AUF16B Jun 16, 2004 11:22

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	47783.19	95.6
ARSENIC	1000.0	1027.62	102.8
CADMIUM	1000.0	1038.37	103.8
CALCIUM	50000.0	51565.06	103.1
CHROMIUM	1000.0	1003.60	100.4
IRON	20000.0	20242.22	101.2
LEAD	1000.0	1038.05	103.8
MAGNESIUM	50000.0	51377.26	102.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** CTO301318-2

Concentration Units: ug/L

SAMPLE: CCV

File: AUF16B Jun 16, 2004 12:43

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	50015.14	100.0
ARSENIC	1000.0	986.55	98.7
CADMIUM	1000.0	1029.55	103.0
CALCIUM	50000.0	51449.24	102.9
CHROMIUM	1000.0	998.26	99.8
IRON	20000.0	19999.32	100.0
LEAD	1000.0	976.33	97.6
MAGNESIUM	50000.0	51455.44	102.9

SAMPLE: CCV

File: AUF16B Jun 16, 2004 14:03

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	47734.10	95.5
ARSENIC	1000.0	1040.83	104.1
CADMIUM	1000.0	1002.99	100.3
CALCIUM	50000.0	50215.80	100.4
CHROMIUM	1000.0	976.18	97.6
IRON	20000.0	19776.55	98.9
LEAD	1000.0	1023.94	102.4
MAGNESIUM	50000.0	50196.54	100.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** CTO301318-2

Concentration Units: ug/L

SAMPLE: CCV

File: AUF16B Jun 16, 2004 15:24

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48292.80	96.6
ARSENIC	1000.0	1054.66	105.5
CADMIUM	1000.0	994.77	99.5
CALCIUM	50000.0	50764.64	101.5
CHROMIUM	1000.0	1007.15	100.7
IRON	20000.0	20301.73	101.5
LEAD	1000.0	1048.15	104.8
MAGNESIUM	50000.0	51259.95	102.5

SAMPLE: CCV

File: AUF16B Jun 16, 2004 16:45

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	49426.81	98.9
ARSENIC	1000.0	1020.77	102.1
CADMIUM	1000.0	976.05	97.6
CALCIUM	50000.0	50409.97	100.8
CHROMIUM	1000.0	1008.81	100.9
IRON	20000.0	20114.73	100.6
LEAD	1000.0	1018.29	101.8
MAGNESIUM	50000.0	51397.96	102.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** CTO301318-2

Concentration Units: ug/L

SAMPLE: CCV

File: AUF16B Jun 16, 2004 18:06

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	50438.74	100.9
ARSENIC	1000.0	994.74	99.5
CADMIUM	1000.0	969.24	96.9
CALCIUM	50000.0	50318.88	100.6
CHROMIUM	1000.0	1010.06	101.0
IRON	20000.0	20027.10	100.1
LEAD	1000.0	989.24	98.9
MAGNESIUM	50000.0	51587.77	103.2

SAMPLE: CCV

File: AUF16B Jun 16, 2004 19:27

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	50105.78	100.2
ARSENIC	1000.0	955.92	95.6
CADMIUM	1000.0	946.32	94.6
CALCIUM	50000.0	49306.75	98.6
CHROMIUM	1000.0	994.82	99.5
IRON	20000.0	19581.13	97.9
LEAD	1000.0	962.25	96.2
MAGNESIUM	50000.0	50761.08	101.5

(1) Control Limits: Mercury 80-120; Other Metals 90-110

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWUF14ICW1

Matrix: WATER **SDG Name:** CTO301318-2

QC Batch ID: UF14ICW1

Concentration Units : ug/L

Analyte	RESULT	C
ARSENIC	3.030	U
CADMIUM	0.300	U
CHROMIUM	0.800	U
LEAD	2.560	B

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO301318-2

Concentration Units: ug/L

SAMPLE: ICB

File: AUF16B Jun 16, 2004 10:49

Analyte	Result	C
ALUMINUM	-22.21	B
ARSENIC	3.03	U
CADMIUM	0.30	U
CALCIUM	7.54	B
CHROMIUM	0.80	U
IRON	14.07	B
LEAD	2.00	B
MAGNESIUM	7.52	U

SAMPLE: CCB

File: AUF16B Jun 16, 2004 11:29

Analyte	Result	C
ALUMINUM	18.30	U
ARSENIC	3.03	U
CADMIUM	0.30	U
CALCIUM	5.57	B
CHROMIUM	0.80	U
IRON	10.70	U
LEAD	1.70	U
MAGNESIUM	7.52	U

SAMPLE: CCB

File: AUF16B Jun 16, 2004 12:49

Analyte	Result	C
ALUMINUM	-36.04	B
ARSENIC	3.03	U
CADMIUM	0.30	U
CALCIUM	15.79	B
CHROMIUM	1.04	B
IRON	15.58	B
LEAD	1.70	U
MAGNESIUM	7.52	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO301318-2

Concentration Units: ug/L

SAMPLE: CCB

File: AUF16B Jun 16, 2004 14:10

Analyte	Result	C
ALUMINUM	122.58	B
ARSENIC	3.03	U
CADMIUM	0.30	U
CALCIUM	3.13	U
CHROMIUM	0.80	U
IRON	10.70	U
LEAD	1.70	U
MAGNESIUM	7.52	U

SAMPLE: CCB

File: AUF16B Jun 16, 2004 15:30

Analyte	Result	C
ALUMINUM	144.02	B
ARSENIC	3.03	U
CADMIUM	0.30	U
CALCIUM	-10.35	B
CHROMIUM	0.80	U
IRON	10.70	U
LEAD	1.70	U
MAGNESIUM	7.52	U

SAMPLE: CCB

File: AUF16B Jun 16, 2004 16:52

Analyte	Result	C
ALUMINUM	92.62	B
ARSENIC	3.03	U
CADMIUM	0.30	U
CALCIUM	-5.41	B
CHROMIUM	0.80	U
IRON	10.70	U
LEAD	1.70	U
MAGNESIUM	7.52	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** CTO301318-2

Concentration Units: ug/L

SAMPLE: CCB

File: AUF16B Jun 16, 2004 18:13

Analyte	Result	C
ALUMINUM	-19.24	B
ARSENIC	3.03	U
CADMIUM	0.30	U
CALCIUM	8.65	B
CHROMIUM	0.80	U
IRON	10.70	U
LEAD	1.70	U
MAGNESIUM	7.52	U

SAMPLE: CCB

File: AUF16B Jun 16, 2004 19:34

Analyte	Result	C
ALUMINUM	-85.88	B
ARSENIC	3.03	U
CADMIUM	0.30	U
CALCIUM	15.03	B
CHROMIUM	0.80	U
IRON	10.70	U
LEAD	2.11	B
MAGNESIUM	7.52	U

Quality Control Report

Blank Sample Summary Report

Nitrate As N

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG7799	EPA 353.2	26-MAY-04	N/A	U 0.050 mg/L	.05 mg/L

Nitrite As N

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG7799	EPA 353.2	26-MAY-04	N/A	U 0.050 mg/L	.05 mg/L

Sulfate-Turbidimetric

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG8204	EPA 375.4	17-JUN-04	N/A	U 1.0 mg/L	1 mg/L

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Quality Control Report

Blank Sample Summary Report

Nitrate As N

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG7830	EPA 353.2	27-MAY-04	N/A	U 0.050 mg/L	.05 mg/L

Nitrate+Nitrite As N

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG7830	EPA 353.2	27-MAY-04	N/A	U 0.050 mg/L	.05 mg/L

Nitrite As N

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG7830	EPA 353.2	27-MAY-04	N/A	U 0.050 mg/L	.05 mg/L

Sulfate-Turbidimetric

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG8204	EPA 375.4	17-JUN-04	N/A	U 1.0 mg/L	1 mg/L

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** A

Instrument Name: TJA TRACE ICP **Date:** 4/28/04

Concentration Units: ug/L

Analyte	CRDL	IDL	M
ARSENIC	8.0	3.03	P
CADMIUM	10	0.30	P
CHROMIUM	15	0.80	P
LEAD	5.0	1.70	P

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** UF14ICW1

Matrix: WATER **SDG Name:** CTO301318-2

Method: P **Prep Date:** 06/14/2004

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWUF14ICW1	LCSWUF14ICW1	0.05	0.05
PBWUF14ICW1	PBWUF14ICW1	0.05	0.05
G01-MW-01A-0504	WU1552-001	0.05	0.05
G01-MW-07-0504	WU1552-002	0.05	0.05
G01-MW-08-0504	WU1552-004	0.05	0.05
G01-MW-09-0504	WU1552-006	0.05	0.05
KW-DUP-02-0504	WU1552-008	0.05	0.05
G01-MW-01-0504	WU1571-001	0.05	0.05
G01-MW-01-0504P	WU1571-001P	0.05	0.05
G01-MW-01-0504S	WU1571-001S	0.05	0.05
KW-RINS-01-0504	WU1571-002	0.05	0.05

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO301318-2

Instrument ID: TJA TRACE ICP **File Name:** AUF16B

Date: 6/16/04 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements
S0		1	9:58	Al As Cd Ca Cr Fe Pb Mg
S1		1	10:05	Al As Cd Ca Cr Fe Pb Mg
AL_IEC		1	10:15	Al As Cd Ca Cr Fe Pb Mg
FE_IEC		1	10:22	Al As Cd Ca Cr Fe Pb Mg
MN_IEC		1	10:28	Al As Cd Ca Cr Fe Pb Mg
IEC		1	10:35	Al As Cd Ca Cr Fe Pb Mg
ICV		1	10:42	Al As Cd Ca Cr Fe Pb Mg
ICB		1	10:49	Al As Cd Ca Cr Fe Pb Mg
PQL		1	10:55	Al As Cd Ca Cr Fe Pb Mg
CRI		1	11:02	Al As Cd Ca Cr Fe Pb Mg
ICSA		1	11:09	Al As Cd Ca Cr Fe Pb Mg
ICSAB		1	11:15	Al As Cd Ca Cr Fe Pb Mg
CCV		1	11:22	Al As Cd Ca Cr Fe Pb Mg
CCB		1	11:29	Al As Cd Ca Cr Fe Pb Mg
ZZZZZZ		1	11:36	
ZZZZZZ		5	11:42	
ZZZZZZ		1	11:49	
ZZZZZZ		1	11:56	
ZZZZZZ		1	12:02	
ZZZZZZ		1	12:09	
ZZZZZZ		1	12:16	
ZZZZZZ		5	12:23	
ZZZZZZ		1	12:29	
ZZZZZZ		1	12:36	
CCV		1	12:43	Al As Cd Ca Cr Fe Pb Mg
CCB		1	12:49	Al As Cd Ca Cr Fe Pb Mg
ZZZZZZ		1	12:56	
ZZZZZZ		1	13:03	
ZZZZZZ		1	13:10	
ZZZZZZ		1	13:16	
ZZZZZZ		1	13:23	
ZZZZZZ		1	13:30	
ZZZZZZ		5	13:36	
ZZZZZZ		1	13:43	
PBWUF14ICW1		1	13:50	As Cd Cr Pb
LCSWUF14ICW1		1	13:56	As Cd Cr Pb
CCV		1	14:03	Al As Cd Ca Cr Fe Pb Mg
CCB		1	14:10	Al As Cd Ca Cr Fe Pb Mg
WU1552-001	G01-MW-01A-0504	1	14:17	Pb
WU1552-002	G01-MW-07-0504	1	14:23	As Cd Cr Pb
WU1552-004	G01-MW-08-0504	1	14:30	As Cd Cr Pb
WU1552-006	G01-MW-09-0504	1	14:37	As Cd Cr Pb
WU1552-008	KW-DUP-02-0504	1	14:43	As Cd Cr Pb
WU1571-001	G01-MW-01-0504	1	14:50	Pb
WU1571-001L	G01-MW-01-0504L	5	14:57	Pb
CRI		1	15:04	Al As Cd Ca Cr Fe Pb Mg
ICSA		1	15:10	Al As Cd Ca Cr Fe Pb Mg
ICSAB		1	15:17	Al As Cd Ca Cr Fe Pb Mg
CCV		1	15:24	Al As Cd Ca Cr Fe Pb Mg
CCB		1	15:30	Al As Cd Ca Cr Fe Pb Mg

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** CTO301318-2

Instrument ID: TJA TRACE ICP **File Name:** AUF16B

Date: 6/16/04 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements
WU1571-001P	G01-MW-01-0504P	1	15:37	Pb
WU1571-001S	G01-MW-01-0504S	1	15:44	Pb
WU1571-002	KW-RINS-01-0504	1	15:51	Pb
ZZZZZZ		1	15:58	
ZZZZZZ		1	16:05	
ZZZZZZ		1	16:11	
ZZZZZZ		1	16:18	
ZZZZZZ		5	16:25	
ZZZZZZ		1	16:32	
ZZZZZZ		1	16:38	
CCV		1	16:45	Al As Cd Ca Cr Fe Pb Mg
CCB		1	16:52	Al As Cd Ca Cr Fe Pb Mg
ZZZZZZ		1	16:59	
ZZZZZZ		1	17:05	
ZZZZZZ		1	17:12	
ZZZZZZ		1	17:19	
ZZZZZZ		1	17:26	
ZZZZZZ		1	17:32	
ZZZZZZ		1	17:39	
ZZZZZZ		1	17:46	
ZZZZZZ		1	17:53	
ZZZZZZ		1	17:59	
CCV		1	18:06	Al As Cd Ca Cr Fe Pb Mg
CCB		1	18:13	Al As Cd Ca Cr Fe Pb Mg
ZZZZZZ		1	18:20	
ZZZZZZ		1	18:27	
ZZZZZZ		1	18:34	
ZZZZZZ		1	18:40	
ZZZZZZ		1	18:47	
ZZZZZZ		1	18:54	
ZZZZZZ		1	19:01	
CRI		1	19:07	Al As Cd Ca Cr Fe Pb Mg
ICSA		1	19:14	Al As Cd Ca Cr Fe Pb Mg
ICSAB		1	19:21	Al As Cd Ca Cr Fe Pb Mg
CCV		1	19:27	Al As Cd Ca Cr Fe Pb Mg
CCB		1	19:34	Al As Cd Ca Cr Fe Pb Mg

FIELD DUPLICATE PRECISION

ANALYTE	KW-DUP-02-0504	G01-MW-07-0504	RPD	DIFFERENCE
Arsenic	6.1	3.03U	#VALUE!	#VALUE!
Cadmium	0.3U	0.3U	#VALUE!	#VALUE!
Chromium	0.8U	0.8U	#VALUE!	#VALUE!
Lead	1.7U	1.7U	#VALUE!	#VALUE!
Nitrate	0.05U	0.03	#VALUE!	#VALUE!
Sulfate	1700	1800	5.71	100

APPENDIX D

FIELD SURVEY DATA

ISLAND
SURVEYING &
MAPPING CO.
A Donaldson, Garrett & Associates, Inc. Company

SURVEY REPORT

GROUNDWATER MONITORING WELLS

NAVAL AIR STATION KEY WEST, FLORIDA

CTO 297

BOCO CHICA TANK FARM
TRUMBO POINT BOQ
GEIGER KEY HAWK MISSILE SITE
BOCA CHICA HAWK MISSILE SITE
SWMU 1 AREA
TRUCK FILL STAND
VALVE PIT NO. 8

NAVAL FACILITIES ENGINEERING COMMAND

TTNus Prime Contract No. N62467-94-D-0888
Subcontract No. N5079-S3085 (SD)
ISM Project No. 03-338-08
DG&A Project No. 2775-063-D1

Prepared for:

TETRA TECH NUS, INC.

James W. Newberry, Jr. ★ CERTIFICATE No. 5788 STATE OF FLORIDA ★ Registered Surveyor & Mapper

Submitted by:

ISLAND SURVEYING & MAPPING CO.
A DONALDSON, GARRETT & ASSOCIATES, INC. COMPANY

September 5, 2003

2555 N. COURTENAY PKWY. #31
MERRITT ISLAND, FL. 32953
PHONE: 321-452-1738 FAX: 321-452-7256

PROJECT SUMMARY

Horizontal and Vertical Surveys were performed to determine the location and elevation of groundwater monitoring wells at various sites located at the Boca Chica Key and Key West facilities of Naval Air Station Key West, Florida.

Horizontal locations were referenced to the Florida State Plane Coordinate System, East Zone, North American Datum of 1983, 1990 adjustment (NAD 83/90), by ties to survey control points previously established at the sites by DGA and others and provided by Tetra Tech NUS, Inc. Elevations were referenced to Mean Sea Level, North American Vertical Datum, 1929 Adjustment (NGVD 29) by ties to existing survey benchmarks and monitoring wells at the sites.

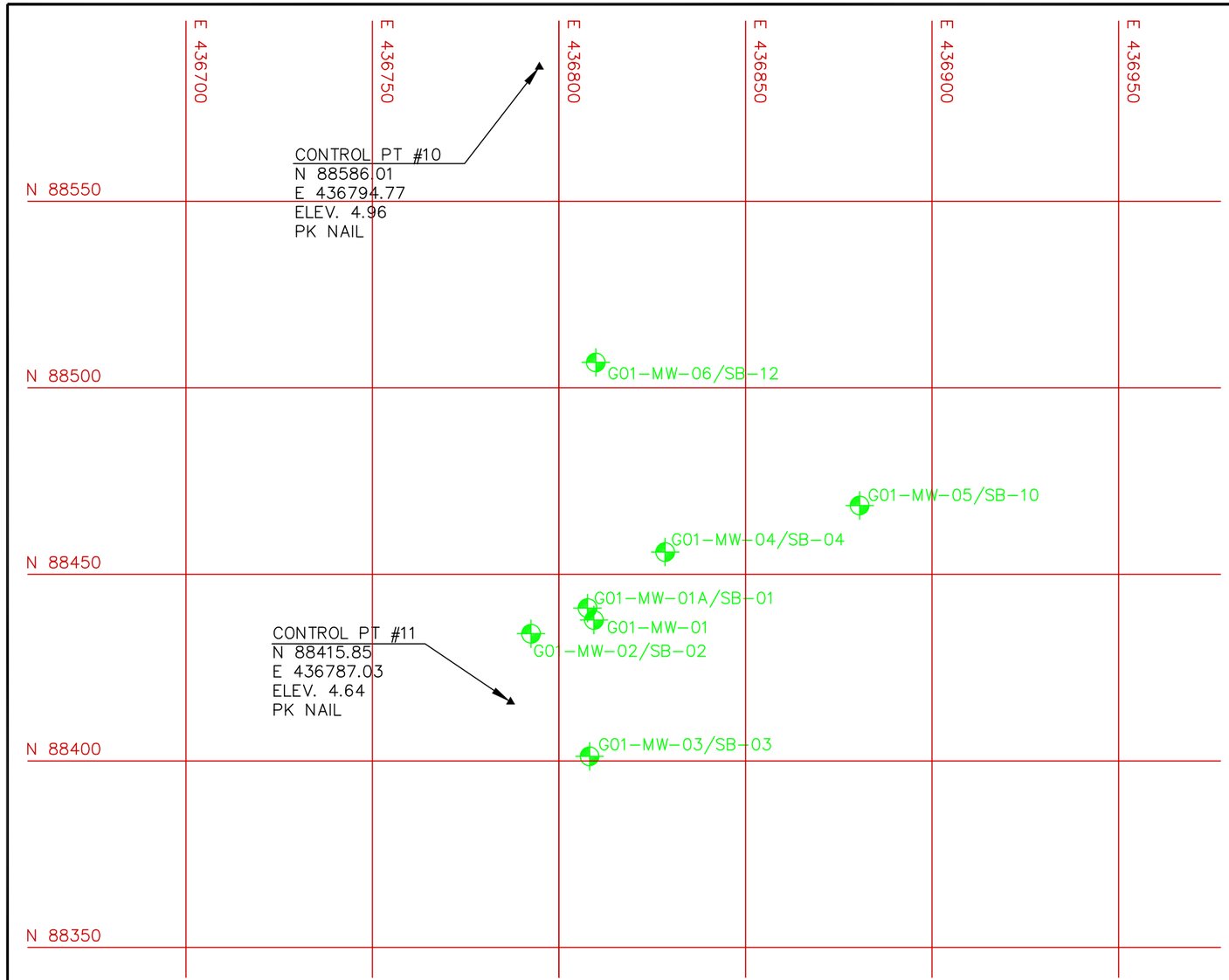
New semi-permanent control points were extended as necessary to the vicinity of the new monitoring wells. Locations were determined by direct observation from the semi-permanent control point. Elevations were determined by closed loop differential leveling. Error of closure was determined for the level loop and adjustment applied.

Results of this survey are presented herein in tabular and map form. No site features were surveyed other than the groundwater monitoring wells as a part of this work. Field Surveys were completed on August 23, 2003.

MONITORING WELL SURVEY DATA
NAVAL AIR STATION KEY WEST
GEIGER KEY HAWK MISSILE SITE
prepared for Tetra Tech, NUS, Inc.
prepared by Donaldson, Garrett & Associates, Inc. d/b/a/ Island Surveying & Mapping Co.
8/22/2003

DESCRIPTION	NORTH	EAST	ELEVATION	
			GROUND/ASPH	TOC
G01-MW-01	88,437.76	436,809.38	5.1	4.80
G01-MW-01A/SB-1	88,440.98	436,807.65	5.1	4.84
G01-MW-2/SB-2	88,434.08	436,792.51	4.6	4.22
G01-MW-03/SB-03	88,401.23	436,808.21	3.3	3.02
G01-MW-4/SB-4	88,455.98	436,828.47	4.9	4.81
G01-MW-05/SB-12	88,468.47	436,880.59	4.1	3.93
G01-MW-06/SB-12	88,506.80	436,809.87	5.4	4.99

SPECIFIC PURPOSE SURVEY



NAD 83

LEGEND

MONITORING WELL/ SOIL BORING

NOTES

1. THE PURPOSE OF THIS SURVEY IS TO SHOW THE LOCATIONS OF SELECTED GROUNDWATER MONITORING WELLS. ALL IMPROVEMENTS ARE NOT SHOWN.
2. THE COORDINATE GRID SHOWN IS BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83).
3. THIS SURVEY MAP IS ACCOMPANIED BY A SURVEY REPORT. THIS DOCUMENT IS NOT COMPLETE UNLESS ACCOMPANIED BY THIS REPORT.
4. DATE OF SURVEY: AUGUST 22, 2003.

CERTIFICATION
I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 61G17-6 FL. AD. CODE, SECTION 472.027, FL. STATUTES.

JAMES W. NEWBERRY, FL. PSM. #5788

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DATE: SEPT. 4, 2003	DWN.BY: DGB
SCALE: 1 = 30'	FIELDBOOK EDC/440
PROJECT NO. 03-308-08	PSM NO. 5788
DGA PROJ. NO. 2775-063-F1 DGA DWG. NO. 2449-03-B	LB NO. 5633

ISLAND SURVEYING & MAPPING CO.
A DONALDSON, GARRETT & ASSOCIATES, INC. COMPANY
MACON • CHARLOTTE • MERRITT ISLAND, FL
2555 N. COURTENAY PKWY., SUITE 31
MERRITT ISLAND, FL 32953
(321)452-1738 Fax: (321) 452-7256

WELL LOCATION SURVEY

NAVAL AIR ATATION KEY WEST
HAWK MISSLE SITE G-01

PREPARED FOR

TETRA TECH NUS, INC.

GEIGER KEY MONROE COUNTY FLORIDA

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ISLAND SURVEYING & MAPPING CO.

A Donaldson, Garrett & Associates, Inc. Company

SURVEY REPORT

GROUNDWATER MONITORING WELLS
BOCA CHICA KEY BLDG. 824 SITE
GEIGER KEY HAWK MISSLE SITE

NAVAL AIR STATION KEY WEST
KEY WEST, FLORIDA

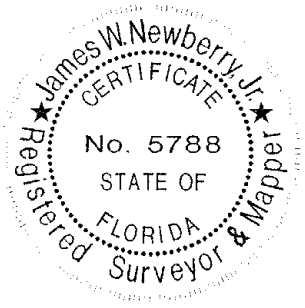
CTO 318

NAVAL FACILITIES ENGINEERING COMMAND

TTNus Prime Contract No. N62467-94-D-0888
Subcontract No. N4779-S4055 (SD)
ISM Project No. 03-338-08
DG&A Project No. 2775-063-D1

Prepared for:

TETRA TECH NUS, INC.



Submitted by:

ISLAND SURVEYING & MAPPING CO.
A DONALDSON, GARRETT & ASSOCIATES, INC. COMPANY

JUNE 23, 2004

2555 N. COURTENAY PKWY. #31
MERRITT ISLAND, FL. 32953
PHONE: 321-452-1738 FAX: 321-452-7256

PROJECT SUMMARY

Horizontal and Vertical Surveys were performed to determine the location and elevation of groundwater monitoring wells at Boca Chica Key Building 824 and Geiger Key Hawk Missle Sites at the U. S. Naval Air Station Key West, Florida.

Horizontal locations were referenced to the Florida State Plane Coordinate System, East Zone, North American Datum of 1983, 1990 adjustment (NAD 83/90) and elevations were referenced to Mean Sea Level, North American Vertical Datum, 1929 Adjustment (NGVD 29) by ties an existing U. S. Navy survey benchmarks at the site.

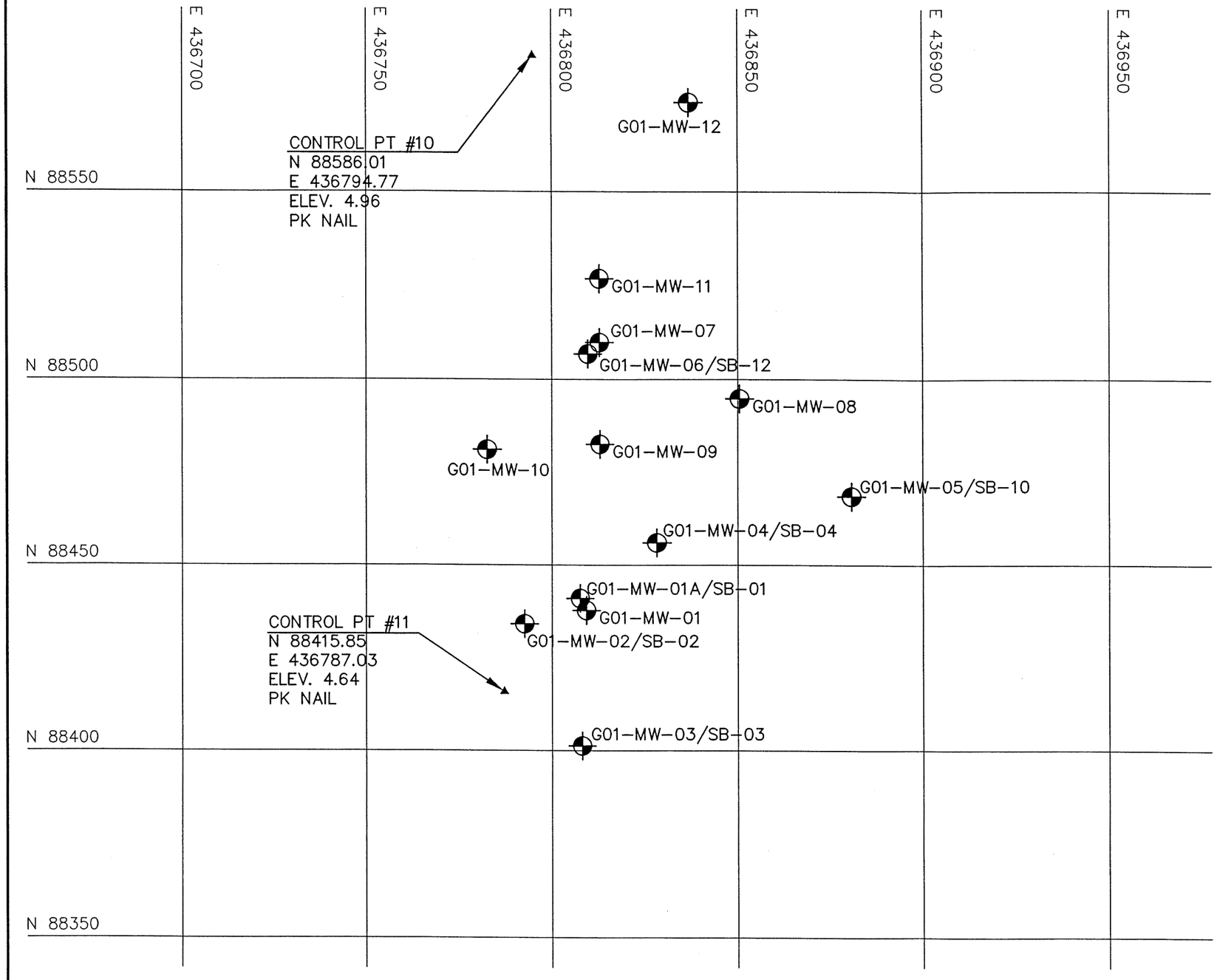
New semi-permanent control points were extended as necessary to the vicinity of the sites. Locations were determined by direct observation from the semi-permanent control point. Elevations were determined by closed loop differential leveling. Error of closure was determined for the level loop and adjustment applied.

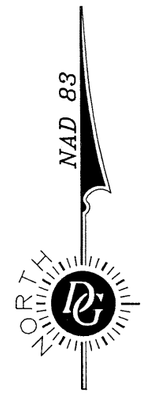
Results of this survey are presented herein in tabular and map form. Site features and improvements were not surveyed as part of this work. Field Surveys were completed on May 25, 2004.

MONITORING WELL SURVEY DATA
NAVAL AIR STATION KEY WEST
GEIGER KEY HAWK MISSILE SITE
prepared for Tetra Tech, NUS, Inc.
prepared by Donaldson, Garrett & Associates, Inc. d/b/a/ Island Surveying & Mapping Co.
May 25, 2004

DESCRIPTION	NORTH	EAST	ELEVATION	
			GROUND	TOC
G01-MW-07	88,509.87	436,813.02	4.63	4.89
G01-MW-08	88,494.76	436,850.48	5.15	5.57
G01-MW-09	88,482.48	436,813.15	5.53	5.22
G01-MW-10	88,481.02	436,782.51	4.93	4.58
G01-MW-11	88,526.90	436,812.97	5.44	5.20
G01-MW-12	88,573.53	436,836.95	4.78	4.47

SPECIFIC PURPOSE SURVEY





LEGEND

MONITORING WELL/ SOIL BORING

NOTES

1. THE PURPOSE OF THIS SURVEY IS TO SHOW THE LOCATIONS OF SELECTED GROUNDWATER MONITORING WELLS. ALL IMPROVEMENTS ARE NOT SHOWN.
2. THE COORDINATE GRID SHOWN IS BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83).
3. THIS SURVEY MAP IS ACCOMPANIED BY A SURVEY REPORT. THIS DOCUMENT IS NOT COMPLETE UNLESS ACCOMPANIED BY THIS REPORT.
4. DATE OF SURVEY: AUGUST 22, 2003.
   ADDITIONAL LOCATIONS: MAY 25, 2004

CERTIFICATION
I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 61G17-6 FL. AD. CODE, SECTION 472.027, FL. STATUTES.

JAMES W. NEWBERRY, FL. PSM. #5788

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30 0 30 60 90
GRAPHIC SCALE IN FEET

REVISED: JUNE 23, 2004 – ADDITIONAL WELL LOCATIONS

DATE: SEPT. 4, 2003	DWN.BY: DGB
SCALE: 1 = 30'	FIELDBOOK EDC/440
PROJECT NO. 03-308-08	PSM NO. 5788
DGA PROJ. NO. 2775-063-F1	LB NO. 5633
DGA DWG. NO. 2449-03-B	

ISLAND SURVEYING & MAPPING CO.
A DONALDSON, GARRETT & ASSOCIATES, INC. COMPANY
MACON • CHARLOTTE • MERRITT ISLAND, FL
2555 N. COURTENAY PKWY., SUITE 31
MERRITT ISLAND, FL 32953
(321)452-1738 Fax: (321) 452-7256

WELL LOCATION SURVEY

NAVAL AIR STATION KEY WEST

HAWK MISSLE SITE G-01

PREPARED FOR

TETRA TECH NUS, INC.

GEIGER KEY MONROE COUNTY FLORIDA

THESE DOCUMENTS, AS INSTRUMENTS OF SERVICE, REMAIN THE PROPERTY OF DONALDSON, GARRETT & ASSOCIATES, INC. AND NO PART THEROF MAY BE USED OR REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION.

APPENDIX E

TIDAL STUDY DATA

G01-MW-03

In-Situ Inc. MiniTroll Pro

Report generated: 11/11/2000 18:36:52
Report from file: C:\Win-Situ\Data\SN12270 1999-01-04 045620 Test #5.bin
DataMgr Version 3.71

Serial number: 12270
Firmware Version 3.07
Unit name:

Test name: Test #5

Test defined on: 1/4/1999 4:55:00
Test started on: 1/4/1999 4:56:20
Test stopped on: 1/6/1999 5:55:51
Test extracted on: N/A

Data gathered using Linear testing
Time between data points: 15.0000 Minutes.
Number of data samples: 196

TOTAL DATA SAMPLES 196

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [2]
Measurement type: Pressure
Channel name:
Sensor Range: 5 PSI.
Specific gravity: 1

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Meters H2O
5/19/2004	17:00:00	0	26.85	2.411
5/19/2004	17:15:00	15	26.66	2.395
5/19/2004	17:30:00	30	26.65	2.389
5/19/2004	17:45:00	45	26.64	2.383
5/19/2004	18:00:00	60	26.64	2.379
5/19/2004	18:15:00	75	26.63	2.377
5/19/2004	18:30:00	90	26.63	2.376
5/19/2004	18:45:00	105	26.61	2.378
5/19/2004	19:00:00	120	26.61	2.379
5/19/2004	19:15:00	135	26.61	2.383
5/19/2004	19:30:00	150	26.6	2.385
5/19/2004	19:45:00	165	26.6	2.389
5/19/2004	20:00:00	180	26.6	2.397
5/19/2004	20:15:00	195	26.6	2.407

5/19/2004	20:30:00	210	26.6	2.416
5/19/2004	20:45:00	225	26.6	2.424
5/19/2004	21:00:00	240	26.6	2.436
5/19/2004	21:15:00	255	26.6	2.444
5/19/2004	21:30:00	270	26.6	2.451
5/19/2004	21:45:00	285	26.6	2.458
5/19/2004	22:00:00	300	26.6	2.469
5/19/2004	22:15:00	315	26.6	2.478
5/19/2004	22:30:00	330	26.59	2.486
5/19/2004	22:45:00	345	26.59	2.49
5/19/2004	23:00:00	360	26.59	2.496
5/19/2004	23:15:00	375	26.59	2.501
5/19/2004	23:30:00	390	26.59	2.507
5/19/2004	23:45:00	405	26.59	2.507
5/20/2004	0:00:00	420	26.59	2.506
5/20/2004	0:15:00	435	26.59	2.506
5/20/2004	0:30:00	450	26.59	2.506
5/20/2004	0:45:00	465	26.59	2.506
5/20/2004	1:00:00	480	26.59	2.504
5/20/2004	1:15:00	495	26.59	2.5
5/20/2004	1:30:00	510	26.59	2.494
5/20/2004	1:45:00	525	26.59	2.489
5/20/2004	2:00:00	540	26.59	2.484
5/20/2004	2:15:00	555	26.59	2.479
5/20/2004	2:30:00	570	26.59	2.474
5/20/2004	2:45:00	585	26.58	2.469
5/20/2004	3:00:00	600	26.58	2.463
5/20/2004	3:15:00	615	26.58	2.458
5/20/2004	3:30:00	630	26.58	2.45
5/20/2004	3:45:00	645	26.58	2.447
5/20/2004	4:00:00	660	26.58	2.442
5/20/2004	4:15:00	675	26.58	2.438
5/20/2004	4:30:00	690	26.58	2.434
5/20/2004	4:45:00	705	26.58	2.431
5/20/2004	5:00:00	720	26.58	2.435
5/20/2004	5:15:00	735	26.58	2.441
5/20/2004	5:30:00	750	26.58	2.446
5/20/2004	5:45:00	765	26.58	2.449
5/20/2004	6:00:00	780	26.58	2.45
5/20/2004	6:15:00	795	26.58	2.457
5/20/2004	6:30:00	810	26.58	2.471
5/20/2004	6:45:00	825	26.58	2.479
5/20/2004	7:00:00	840	26.59	2.49
5/20/2004	7:15:00	855	26.58	2.502
5/20/2004	7:30:00	870	26.58	2.512
5/20/2004	7:45:00	885	26.58	2.523
5/20/2004	8:00:00	900	26.59	2.539
5/20/2004	8:15:00	915	26.59	2.552
5/20/2004	8:30:00	930	26.59	2.563
5/20/2004	8:45:00	945	26.59	2.573
5/20/2004	9:00:00	960	26.58	2.588
5/20/2004	9:15:00	975	26.59	2.598

5/20/2004	9:30:00	990	26.59	2.613
5/20/2004	9:45:00	1005	26.59	2.622
5/20/2004	10:00:00	1020	26.59	2.632
5/20/2004	10:15:00	1035	26.59	2.639
5/20/2004	10:30:00	1050	26.59	2.646
5/20/2004	10:45:00	1065	26.59	2.655
5/20/2004	11:00:00	1080	26.59	2.661
5/20/2004	11:15:00	1095	26.59	2.663
5/20/2004	11:30:00	1110	26.59	2.669
5/20/2004	11:45:00	1125	26.59	2.673
5/20/2004	12:00:00	1140	26.59	2.673
5/20/2004	12:15:00	1155	26.59	2.67
5/20/2004	12:30:00	1170	26.59	2.665
5/20/2004	12:45:00	1185	26.59	2.662
5/20/2004	13:00:00	1200	26.59	2.661
5/20/2004	13:15:00	1215	26.59	2.655
5/20/2004	13:30:00	1230	26.59	2.644
5/20/2004	13:45:00	1245	26.59	2.633
5/20/2004	14:00:00	1260	26.58	2.625
5/20/2004	14:15:00	1275	26.58	2.614
5/20/2004	14:30:00	1290	26.58	2.597
5/20/2004	14:45:00	1305	26.58	2.581
5/20/2004	15:00:00	1320	26.58	2.564
5/20/2004	15:15:00	1335	26.58	2.546
5/20/2004	15:30:00	1350	26.56	2.535
5/20/2004	15:45:00	1365	26.56	2.518
5/20/2004	16:00:00	1380	26.56	2.498
5/20/2004	16:15:00	1395	26.56	2.48
5/20/2004	16:30:00	1410	26.56	2.462
5/20/2004	16:45:00	1425	26.55	2.442
5/20/2004	17:00:00	1440	26.55	2.426
5/20/2004	17:15:00	1455	26.55	2.412
5/20/2004	17:30:00	1470	26.55	2.405
5/20/2004	17:45:00	1485	26.55	2.398
5/20/2004	18:00:00	1500	26.55	2.386
5/20/2004	18:15:00	1515	26.55	2.375
5/20/2004	18:30:00	1530	26.55	2.37
5/20/2004	18:45:00	1545	26.55	2.372
5/20/2004	19:00:00	1560	26.55	2.371
5/20/2004	19:15:00	1575	26.56	2.373
5/20/2004	19:30:00	1590	26.56	2.374
5/20/2004	19:45:00	1605	26.56	2.375
5/20/2004	20:00:00	1620	26.56	2.382
5/20/2004	20:15:00	1635	26.56	2.391
5/20/2004	20:30:00	1650	26.56	2.398
5/20/2004	20:45:00	1665	26.56	2.404
5/20/2004	21:00:00	1680	26.56	2.408
5/20/2004	21:15:00	1695	26.56	2.42
5/20/2004	21:30:00	1710	26.58	2.429
5/20/2004	21:45:00	1725	26.56	2.438
5/20/2004	22:00:00	1740	26.56	2.448
5/20/2004	22:15:00	1755	26.58	2.457

5/20/2004	22:30:00	1770	26.58	2.466
5/20/2004	22:45:00	1785	26.58	2.473
5/20/2004	23:00:00	1800	26.58	2.485
5/20/2004	23:15:00	1815	26.58	2.493
5/20/2004	23:30:00	1830	26.58	2.498
5/20/2004	23:45:00	1845	26.58	2.503
5/21/2004	0:00:00	1860	26.58	2.504
5/21/2004	0:15:00	1875	26.58	2.507
5/21/2004	0:30:00	1890	26.58	2.509
5/21/2004	0:45:00	1905	26.58	2.513
5/21/2004	1:00:00	1920	26.58	2.516
5/21/2004	1:15:00	1935	26.58	2.517
5/21/2004	1:30:00	1950	26.58	2.514
5/21/2004	1:45:00	1965	26.58	2.511
5/21/2004	2:00:00	1980	26.58	2.507
5/21/2004	2:15:00	1995	26.58	2.505
5/21/2004	2:30:00	2010	26.58	2.502
5/21/2004	2:45:00	2025	26.58	2.496
5/21/2004	3:00:00	2040	26.58	2.49
5/21/2004	3:15:00	2055	26.58	2.486
5/21/2004	3:30:00	2070	26.58	2.486
5/21/2004	3:45:00	2085	26.58	2.483
5/21/2004	4:00:00	2100	26.58	2.48
5/21/2004	4:15:00	2115	26.58	2.476
5/21/2004	4:30:00	2130	26.58	2.476
5/21/2004	4:45:00	2145	26.58	2.475
5/21/2004	5:00:00	2160	26.58	2.475
5/21/2004	5:15:00	2175	26.58	2.472
5/21/2004	5:30:00	2190	26.58	2.475
5/21/2004	5:45:00	2205	26.58	2.482
5/21/2004	6:00:00	2220	26.58	2.486
5/21/2004	6:15:00	2235	26.58	2.494
5/21/2004	6:30:00	2250	26.58	2.499
5/21/2004	6:45:00	2265	26.58	2.506
5/21/2004	7:00:00	2280	26.58	2.517
5/21/2004	7:15:00	2295	26.58	2.527
5/21/2004	7:30:00	2310	26.58	2.536
5/21/2004	7:45:00	2325	26.58	2.546
5/21/2004	8:00:00	2340	26.58	2.557
5/21/2004	8:15:00	2355	26.58	2.567
5/21/2004	8:30:00	2370	26.58	2.581
5/21/2004	8:45:00	2385	26.58	2.592
5/21/2004	9:00:00	2400	26.58	2.602
5/21/2004	9:15:00	2415	26.58	2.614
5/21/2004	9:30:00	2430	26.59	2.626
5/21/2004	9:45:00	2445	26.59	2.639
5/21/2004	10:00:00	2460	26.58	2.652
5/21/2004	10:15:00	2475	26.59	2.661
5/21/2004	10:30:00	2490	26.59	2.67
5/21/2004	10:45:00	2505	26.59	2.679
5/21/2004	11:00:00	2520	26.59	2.687
5/21/2004	11:15:00	2535	26.58	2.693

5/21/2004	11:30:00	2550	26.58	2.699
5/21/2004	11:45:00	2565	26.59	2.702
5/21/2004	12:00:00	2580	26.59	2.705
5/21/2004	12:15:00	2595	26.58	2.707
5/21/2004	12:30:00	2610	26.59	2.71
5/21/2004	12:45:00	2625	26.59	2.712
5/21/2004	13:00:00	2640	26.58	2.713
5/21/2004	13:15:00	2655	26.59	2.708
5/21/2004	13:30:00	2670	26.58	2.703
5/21/2004	13:45:00	2685	26.59	2.699
5/21/2004	14:00:00	2700	26.58	2.694
5/21/2004	14:15:00	2715	26.59	2.684
5/21/2004	14:30:00	2730	26.58	2.67
5/21/2004	14:45:00	2745	26.59	2.657
5/21/2004	15:00:00	2760	26.58	2.645
5/21/2004	15:15:00	2775	26.58	2.631
5/21/2004	15:30:00	2790	26.58	2.616
5/21/2004	15:45:00	2805	26.58	2.598
5/21/2004	16:00:00	2820	26.58	2.579
5/21/2004	16:15:00	2835	26.56	2.565
5/21/2004	16:30:00	2850	26.56	2.552
5/21/2004	16:45:00	2865	26.56	2.534
5/21/2004	17:00:00	2880	26.56	2.519
5/21/2004	17:15:00	2895	26.56	2.506
5/21/2004	17:30:00	2910	26.56	2.486
5/21/2004	17:45:00	2925	26.55	2.47

G01-MW-10

In-Situ Inc. MiniTroll Pro

Report generated: 11/11/2000 18:30:12
Report from file: C:\Win-Situ\Data\SN11960 2004-05-19 220508 Test #1.bin
DataMgr Version 3.71

Serial number: 11960
Firmware Version 3.07
Unit name:

Test name: Test #1

Test defined on: 5/19/2004 22:04:59
Test started on: 5/19/2004 22:05:08
Test stopped on: 5/21/2004 23:46:30
Test extracted on: N/A

Data gathered using Linear testing
Time between data points: 15.0000 Minutes.
Number of data samples: 199

TOTAL DATA SAMPLES 199

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [2]
Measurement type: Pressure
Channel name:
Sensor Range: 5 PSI.
Specific gravity: 1

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Meters H2O
5/19/2004	17:00:00	0	27.58	2.162
5/19/2004	17:15:00	15	27.54	2.157
5/19/2004	17:30:00	30	27.53	2.151
5/19/2004	17:45:00	45	27.51	2.147
5/19/2004	18:00:00	60	27.49	2.142
5/19/2004	18:15:00	75	27.48	2.139
5/19/2004	18:30:00	90	27.49	2.134
5/19/2004	18:45:00	105	27.49	2.131
5/19/2004	19:00:00	120	27.5	2.129
5/19/2004	19:15:00	135	27.5	2.126
5/19/2004	19:30:00	150	27.51	2.124
5/19/2004	19:45:00	165	27.51	2.123
5/19/2004	20:00:00	180	27.51	2.122
5/19/2004	20:15:00	195	27.51	2.121

5/19/2004	20:30:00	210	27.51	2.121
5/19/2004	20:45:00	225	27.51	2.122
5/19/2004	21:00:00	240	27.5	2.123
5/19/2004	21:15:00	255	27.5	2.124
5/19/2004	21:30:00	270	27.5	2.125
5/19/2004	21:45:00	285	27.49	2.127
5/19/2004	22:00:00	300	27.49	2.128
5/19/2004	22:15:00	315	27.48	2.129
5/19/2004	22:30:00	330	27.49	2.132
5/19/2004	22:45:00	345	27.48	2.133
5/19/2004	23:00:00	360	27.48	2.135
5/19/2004	23:15:00	375	27.46	2.135
5/19/2004	23:30:00	390	27.46	2.137
5/19/2004	23:45:00	405	27.46	2.138
5/20/2004	0:00:00	420	27.46	2.14
5/20/2004	0:15:00	435	27.46	2.141
5/20/2004	0:30:00	450	27.46	2.141
5/20/2004	0:45:00	465	27.46	2.142
5/20/2004	1:00:00	480	27.46	2.143
5/20/2004	1:15:00	495	27.46	2.142
5/20/2004	1:30:00	510	27.46	2.143
5/20/2004	1:45:00	525	27.46	2.142
5/20/2004	2:00:00	540	27.45	2.141
5/20/2004	2:15:00	555	27.45	2.14
5/20/2004	2:30:00	570	27.45	2.139
5/20/2004	2:45:00	585	27.46	2.139
5/20/2004	3:00:00	600	27.45	2.137
5/20/2004	3:15:00	615	27.45	2.136
5/20/2004	3:30:00	630	27.45	2.134
5/20/2004	3:45:00	645	27.45	2.133
5/20/2004	4:00:00	660	27.45	2.131
5/20/2004	4:15:00	675	27.45	2.129
5/20/2004	4:30:00	690	27.45	2.127
5/20/2004	4:45:00	705	27.45	2.125
5/20/2004	5:00:00	720	27.45	2.123
5/20/2004	5:15:00	735	27.45	2.121
5/20/2004	5:30:00	750	27.45	2.121
5/20/2004	5:45:00	765	27.45	2.121
5/20/2004	6:00:00	780	27.45	2.122
5/20/2004	6:15:00	795	27.45	2.122
5/20/2004	6:30:00	810	27.45	2.122
5/20/2004	6:45:00	825	27.45	2.122
5/20/2004	7:00:00	840	27.45	2.124
5/20/2004	7:15:00	855	27.45	2.126
5/20/2004	7:30:00	870	27.45	2.128
5/20/2004	7:45:00	885	27.45	2.131
5/20/2004	8:00:00	900	27.45	2.134
5/20/2004	8:15:00	915	27.45	2.137
5/20/2004	8:30:00	930	27.45	2.141
5/20/2004	8:45:00	945	27.45	2.145
5/20/2004	9:00:00	960	27.46	2.15
5/20/2004	9:15:00	975	27.45	2.154

5/20/2004	9:30:00	990	27.45	2.158
5/20/2004	9:45:00	1005	27.45	2.163
5/20/2004	10:00:00	1020	27.45	2.169
5/20/2004	10:15:00	1035	27.45	2.174
5/20/2004	10:30:00	1050	27.45	2.178
5/20/2004	10:45:00	1065	27.45	2.182
5/20/2004	11:00:00	1080	27.45	2.186
5/20/2004	11:15:00	1095	27.45	2.189
5/20/2004	11:30:00	1110	27.46	2.193
5/20/2004	11:45:00	1125	27.45	2.197
5/20/2004	12:00:00	1140	27.45	2.2
5/20/2004	12:15:00	1155	27.45	2.203
5/20/2004	12:30:00	1170	27.45	2.206
5/20/2004	12:45:00	1185	27.45	2.207
5/20/2004	13:00:00	1200	27.45	2.207
5/20/2004	13:15:00	1215	27.45	2.208
5/20/2004	13:30:00	1230	27.45	2.209
5/20/2004	13:45:00	1245	27.45	2.209
5/20/2004	14:00:00	1260	27.45	2.208
5/20/2004	14:15:00	1275	27.45	2.206
5/20/2004	14:30:00	1290	27.45	2.205
5/20/2004	14:45:00	1305	27.45	2.203
5/20/2004	15:00:00	1320	27.45	2.199
5/20/2004	15:15:00	1335	27.45	2.195
5/20/2004	15:30:00	1350	27.45	2.191
5/20/2004	15:45:00	1365	27.45	2.186
5/20/2004	16:00:00	1380	27.45	2.183
5/20/2004	16:15:00	1395	27.45	2.178
5/20/2004	16:30:00	1410	27.45	2.173
5/20/2004	16:45:00	1425	27.45	2.167
5/20/2004	17:00:00	1440	27.45	2.161
5/20/2004	17:15:00	1455	27.45	2.156
5/20/2004	17:30:00	1470	27.45	2.149
5/20/2004	17:45:00	1485	27.45	2.143
5/20/2004	18:00:00	1500	27.45	2.138
5/20/2004	18:15:00	1515	27.45	2.134
5/20/2004	18:30:00	1530	27.45	2.129
5/20/2004	18:45:00	1545	27.46	2.124
5/20/2004	19:00:00	1560	27.46	2.12
5/20/2004	19:15:00	1575	27.48	2.117
5/20/2004	19:30:00	1590	27.49	2.115
5/20/2004	19:45:00	1605	27.5	2.114
5/20/2004	20:00:00	1620	27.5	2.112
5/20/2004	20:15:00	1635	27.5	2.11
5/20/2004	20:30:00	1650	27.51	2.108
5/20/2004	20:45:00	1665	27.51	2.108
5/20/2004	21:00:00	1680	27.51	2.108
5/20/2004	21:15:00	1695	27.51	2.108
5/20/2004	21:30:00	1710	27.51	2.108
5/20/2004	21:45:00	1725	27.5	2.109
5/20/2004	22:00:00	1740	27.5	2.112
5/20/2004	22:15:00	1755	27.5	2.113

5/20/2004	22:30:00	1770	27.49	2.115
5/20/2004	22:45:00	1785	27.49	2.117
5/20/2004	23:00:00	1800	27.48	2.119
5/20/2004	23:15:00	1815	27.48	2.12
5/20/2004	23:30:00	1830	27.48	2.122
5/20/2004	23:45:00	1845	27.48	2.125
5/21/2004	0:00:00	1860	27.48	2.127
5/21/2004	0:15:00	1875	27.46	2.129
5/21/2004	0:30:00	1890	27.46	2.129
5/21/2004	0:45:00	1905	27.48	2.13
5/21/2004	1:00:00	1920	27.46	2.133
5/21/2004	1:15:00	1935	27.46	2.134
5/21/2004	1:30:00	1950	27.46	2.136
5/21/2004	1:45:00	1965	27.46	2.138
5/21/2004	2:00:00	1980	27.46	2.137
5/21/2004	2:15:00	1995	27.46	2.137
5/21/2004	2:30:00	2010	27.46	2.137
5/21/2004	2:45:00	2025	27.46	2.137
5/21/2004	3:00:00	2040	27.46	2.137
5/21/2004	3:15:00	2055	27.46	2.136
5/21/2004	3:30:00	2070	27.46	2.135
5/21/2004	3:45:00	2085	27.46	2.133
5/21/2004	4:00:00	2100	27.46	2.132
5/21/2004	4:15:00	2115	27.46	2.132
5/21/2004	4:30:00	2130	27.46	2.131
5/21/2004	4:45:00	2145	27.46	2.129
5/21/2004	5:00:00	2160	27.46	2.128
5/21/2004	5:15:00	2175	27.46	2.127
5/21/2004	5:30:00	2190	27.46	2.127
5/21/2004	5:45:00	2205	27.46	2.126
5/21/2004	6:00:00	2220	27.46	2.126
5/21/2004	6:15:00	2235	27.46	2.126
5/21/2004	6:30:00	2250	27.46	2.127
5/21/2004	6:45:00	2265	27.46	2.127
5/21/2004	7:00:00	2280	27.46	2.129
5/21/2004	7:15:00	2295	27.46	2.13
5/21/2004	7:30:00	2310	27.46	2.132
5/21/2004	7:45:00	2325	27.46	2.135
5/21/2004	8:00:00	2340	27.46	2.138
5/21/2004	8:15:00	2355	27.46	2.141
5/21/2004	8:30:00	2370	27.46	2.145
5/21/2004	8:45:00	2385	27.46	2.149
5/21/2004	9:00:00	2400	27.46	2.153
5/21/2004	9:15:00	2415	27.46	2.158
5/21/2004	9:30:00	2430	27.46	2.161
5/21/2004	9:45:00	2445	27.46	2.166
5/21/2004	10:00:00	2460	27.46	2.17
5/21/2004	10:15:00	2475	27.46	2.176
5/21/2004	10:30:00	2490	27.46	2.181
5/21/2004	10:45:00	2505	27.46	2.186
5/21/2004	11:00:00	2520	27.46	2.191
5/21/2004	11:15:00	2535	27.46	2.195

5/21/2004	11:30:00	2550	27.46	2.199
5/21/2004	11:45:00	2565	27.46	2.203
5/21/2004	12:00:00	2580	27.46	2.207
5/21/2004	12:15:00	2595	27.46	2.21
5/21/2004	12:30:00	2610	27.46	2.213
5/21/2004	12:45:00	2625	27.46	2.215
5/21/2004	13:00:00	2640	27.46	2.218
5/21/2004	13:15:00	2655	27.46	2.22
5/21/2004	13:30:00	2670	27.46	2.223
5/21/2004	13:45:00	2685	27.46	2.224
5/21/2004	14:00:00	2700	27.46	2.224
5/21/2004	14:15:00	2715	27.46	2.225
5/21/2004	14:30:00	2730	27.46	2.226
5/21/2004	14:45:00	2745	27.46	2.225
5/21/2004	15:00:00	2760	27.46	2.223
5/21/2004	15:15:00	2775	27.46	2.22
5/21/2004	15:30:00	2790	27.46	2.218
5/21/2004	15:45:00	2805	27.46	2.215
5/21/2004	16:00:00	2820	27.46	2.212
5/21/2004	16:15:00	2835	27.46	2.208
5/21/2004	16:30:00	2850	27.46	2.203
5/21/2004	16:45:00	2865	27.46	2.199
5/21/2004	17:00:00	2880	27.46	2.195
5/21/2004	17:15:00	2895	27.45	2.19
5/21/2004	17:30:00	2910	27.46	2.185
5/21/2004	17:45:00	2925	27.46	2.181
5/21/2004	18:00:00	2940	27.46	2.174
5/21/2004	18:15:00	2955	27.46	2.169
5/21/2004	18:30:00	2970	27.46	2.164

G01-MW-12

In-Situ Inc. MiniTroll Pro

Report generated: 11/11/2000 18:19:26
Report from file: C:\Win-Situ\Data\SN12142 1999-01-07 023104 Test #3.bin
DataMgr Version 3.71

Serial number: 12142
Firmware Version 3.07
Unit name:

Test name: Test #3

Test defined on: 1/7/1999 2:30:57
Test started on: 1/7/1999 2:31:04
Test stopped on: 1/9/1999 3:37:14
Test extracted on: N/A

Data gathered using Linear testing
Time between data points: 15.0000 Minutes.
Number of data samples: 197

TOTAL DATA SAMPLES 197

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [2]
Measurement type: Pressure
Channel name:
Sensor Range: 5 PSI.
Specific gravity: 1

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Meters H2O
5/19/2004	17:00:00	0	27.6	1.91
5/19/2004	17:15:00	15	26.85	1.906
5/19/2004	17:30:00	30	26.81	1.901
5/19/2004	17:45:00	45	26.8	1.896
5/19/2004	18:00:00	60	26.8	1.891
5/19/2004	18:15:00	75	26.78	1.889
5/19/2004	18:30:00	90	26.77	1.886
5/19/2004	18:45:00	105	26.76	1.885
5/19/2004	19:00:00	120	26.76	1.885
5/19/2004	19:15:00	135	26.75	1.884
5/19/2004	19:30:00	150	26.73	1.884
5/19/2004	19:45:00	165	26.73	1.886
5/19/2004	20:00:00	180	26.72	1.889
5/19/2004	20:15:00	195	26.71	1.893

5/19/2004	20:30:00	210	26.71	1.898
5/19/2004	20:45:00	225	26.68	1.902
5/19/2004	21:00:00	240	26.68	1.908
5/19/2004	21:15:00	255	26.67	1.912
5/19/2004	21:30:00	270	26.66	1.915
5/19/2004	21:45:00	285	26.66	1.921
5/19/2004	22:00:00	300	26.65	1.927
5/19/2004	22:15:00	315	26.65	1.932
5/19/2004	22:30:00	330	26.63	1.936
5/19/2004	22:45:00	345	26.63	1.94
5/19/2004	23:00:00	360	26.63	1.943
5/19/2004	23:15:00	375	26.62	1.947
5/19/2004	23:30:00	390	26.62	1.951
5/19/2004	23:45:00	405	26.63	1.951
5/20/2004	0:00:00	420	26.63	1.952
5/20/2004	0:15:00	435	26.63	1.953
5/20/2004	0:30:00	450	26.63	1.953
5/20/2004	0:45:00	465	26.63	1.954
5/20/2004	1:00:00	480	26.63	1.952
5/20/2004	1:15:00	495	26.63	1.95
5/20/2004	1:30:00	510	26.63	1.948
5/20/2004	1:45:00	525	26.62	1.945
5/20/2004	2:00:00	540	26.62	1.942
5/20/2004	2:15:00	555	26.62	1.94
5/20/2004	2:30:00	570	26.62	1.937
5/20/2004	2:45:00	585	26.62	1.933
5/20/2004	3:00:00	600	26.62	1.929
5/20/2004	3:15:00	615	26.61	1.926
5/20/2004	3:30:00	630	26.61	1.922
5/20/2004	3:45:00	645	26.61	1.918
5/20/2004	4:00:00	660	26.61	1.916
5/20/2004	4:15:00	675	26.61	1.911
5/20/2004	4:30:00	690	26.61	1.908
5/20/2004	4:45:00	705	26.61	1.907
5/20/2004	5:00:00	720	26.61	1.909
5/20/2004	5:15:00	735	26.61	1.911
5/20/2004	5:30:00	750	26.61	1.913
5/20/2004	5:45:00	765	26.61	1.914
5/20/2004	6:00:00	780	26.61	1.915
5/20/2004	6:15:00	795	26.61	1.921
5/20/2004	6:30:00	810	26.61	1.927
5/20/2004	6:45:00	825	26.61	1.932
5/20/2004	7:00:00	840	26.6	1.939
5/20/2004	7:15:00	855	26.6	1.947
5/20/2004	7:30:00	870	26.6	1.954
5/20/2004	7:45:00	885	26.6	1.961
5/20/2004	8:00:00	900	26.61	1.971
5/20/2004	8:15:00	915	26.62	1.98
5/20/2004	8:30:00	930	26.62	1.988
5/20/2004	8:45:00	945	26.62	1.996
5/20/2004	9:00:00	960	26.62	2.004
5/20/2004	9:15:00	975	26.62	2.014

5/20/2004	9:30:00	990	26.62	2.023
5/20/2004	9:45:00	1005	26.62	2.031
5/20/2004	10:00:00	1020	26.62	2.038
5/20/2004	10:15:00	1035	26.62	2.043
5/20/2004	10:30:00	1050	26.61	2.05
5/20/2004	10:45:00	1065	26.61	2.056
5/20/2004	11:00:00	1080	26.61	2.062
5/20/2004	11:15:00	1095	26.61	2.066
5/20/2004	11:30:00	1110	26.61	2.07
5/20/2004	11:45:00	1125	26.61	2.074
5/20/2004	12:00:00	1140	26.61	2.075
5/20/2004	12:15:00	1155	26.61	2.075
5/20/2004	12:30:00	1170	26.61	2.074
5/20/2004	12:45:00	1185	26.61	2.074
5/20/2004	13:00:00	1200	26.61	2.073
5/20/2004	13:15:00	1215	26.61	2.07
5/20/2004	13:30:00	1230	26.61	2.065
5/20/2004	13:45:00	1245	26.61	2.06
5/20/2004	14:00:00	1260	26.61	2.056
5/20/2004	14:15:00	1275	26.61	2.047
5/20/2004	14:30:00	1290	26.61	2.038
5/20/2004	14:45:00	1305	26.61	2.028
5/20/2004	15:00:00	1320	26.61	2.018
5/20/2004	15:15:00	1335	26.6	2.009
5/20/2004	15:30:00	1350	26.6	2
5/20/2004	15:45:00	1365	26.6	1.988
5/20/2004	16:00:00	1380	26.6	1.975
5/20/2004	16:15:00	1395	26.6	1.962
5/20/2004	16:30:00	1410	26.6	1.951
5/20/2004	16:45:00	1425	26.6	1.937
5/20/2004	17:00:00	1440	26.6	1.926
5/20/2004	17:15:00	1455	26.62	1.916
5/20/2004	17:30:00	1470	26.65	1.91
5/20/2004	17:45:00	1485	26.67	1.902
5/20/2004	18:00:00	1500	26.7	1.892
5/20/2004	18:15:00	1515	26.71	1.886
5/20/2004	18:30:00	1530	26.73	1.88
5/20/2004	18:45:00	1545	26.73	1.879
5/20/2004	19:00:00	1560	26.73	1.878
5/20/2004	19:15:00	1575	26.73	1.876
5/20/2004	19:30:00	1590	26.73	1.875
5/20/2004	19:45:00	1605	26.73	1.874
5/20/2004	20:00:00	1620	26.73	1.876
5/20/2004	20:15:00	1635	26.72	1.88
5/20/2004	20:30:00	1650	26.71	1.882
5/20/2004	20:45:00	1665	26.71	1.884
5/20/2004	21:00:00	1680	26.7	1.887
5/20/2004	21:15:00	1695	26.68	1.893
5/20/2004	21:30:00	1710	26.67	1.898
5/20/2004	21:45:00	1725	26.67	1.903
5/20/2004	22:00:00	1740	26.66	1.909
5/20/2004	22:15:00	1755	26.66	1.914

5/20/2004	22:30:00	1770	26.65	1.919
5/20/2004	22:45:00	1785	26.63	1.924
5/20/2004	23:00:00	1800	26.63	1.931
5/20/2004	23:15:00	1815	26.62	1.937
5/20/2004	23:30:00	1830	26.62	1.94
5/20/2004	23:45:00	1845	26.62	1.943
5/21/2004	0:00:00	1860	26.62	1.945
5/21/2004	0:15:00	1875	26.62	1.948
5/21/2004	0:30:00	1890	26.63	1.951
5/21/2004	0:45:00	1905	26.63	1.954
5/21/2004	1:00:00	1920	26.63	1.957
5/21/2004	1:15:00	1935	26.63	1.957
5/21/2004	1:30:00	1950	26.63	1.956
5/21/2004	1:45:00	1965	26.63	1.955
5/21/2004	2:00:00	1980	26.63	1.955
5/21/2004	2:15:00	1995	26.63	1.954
5/21/2004	2:30:00	2010	26.62	1.952
5/21/2004	2:45:00	2025	26.62	1.949
5/21/2004	3:00:00	2040	26.62	1.946
5/21/2004	3:15:00	2055	26.62	1.944
5/21/2004	3:30:00	2070	26.62	1.943
5/21/2004	3:45:00	2085	26.62	1.94
5/21/2004	4:00:00	2100	26.62	1.938
5/21/2004	4:15:00	2115	26.62	1.936
5/21/2004	4:30:00	2130	26.62	1.936
5/21/2004	4:45:00	2145	26.61	1.936
5/21/2004	5:00:00	2160	26.61	1.935
5/21/2004	5:15:00	2175	26.61	1.934
5/21/2004	5:30:00	2190	26.61	1.935
5/21/2004	5:45:00	2205	26.61	1.939
5/21/2004	6:00:00	2220	26.61	1.941
5/21/2004	6:15:00	2235	26.61	1.946
5/21/2004	6:30:00	2250	26.61	1.948
5/21/2004	6:45:00	2265	26.61	1.954
5/21/2004	7:00:00	2280	26.61	1.961
5/21/2004	7:15:00	2295	26.62	1.966
5/21/2004	7:30:00	2310	26.62	1.973
5/21/2004	7:45:00	2325	26.62	1.98
5/21/2004	8:00:00	2340	26.63	1.986
5/21/2004	8:15:00	2355	26.62	1.994
5/21/2004	8:30:00	2370	26.63	2.003
5/21/2004	8:45:00	2385	26.63	2.01
5/21/2004	9:00:00	2400	26.62	2.019
5/21/2004	9:15:00	2415	26.62	2.026
5/21/2004	9:30:00	2430	26.62	2.035
5/21/2004	9:45:00	2445	26.62	2.045
5/21/2004	10:00:00	2460	26.62	2.053
5/21/2004	10:15:00	2475	26.62	2.061
5/21/2004	10:30:00	2490	26.62	2.068
5/21/2004	10:45:00	2505	26.61	2.075
5/21/2004	11:00:00	2520	26.62	2.081
5/21/2004	11:15:00	2535	26.61	2.087

5/21/2004	11:30:00	2550	26.62	2.092
5/21/2004	11:45:00	2565	26.61	2.096
5/21/2004	12:00:00	2580	26.61	2.099
5/21/2004	12:15:00	2595	26.61	2.103
5/21/2004	12:30:00	2610	26.61	2.106
5/21/2004	12:45:00	2625	26.61	2.11
5/21/2004	13:00:00	2640	26.61	2.11
5/21/2004	13:15:00	2655	26.61	2.108
5/21/2004	13:30:00	2670	26.61	2.108
5/21/2004	13:45:00	2685	26.61	2.106
5/21/2004	14:00:00	2700	26.61	2.104
5/21/2004	14:15:00	2715	26.61	2.098
5/21/2004	14:30:00	2730	26.61	2.091
5/21/2004	14:45:00	2745	26.61	2.085
5/21/2004	15:00:00	2760	26.61	2.077
5/21/2004	15:15:00	2775	26.61	2.069
5/21/2004	15:30:00	2790	26.61	2.06
5/21/2004	15:45:00	2805	26.61	2.048
5/21/2004	16:00:00	2820	26.61	2.038
5/21/2004	16:15:00	2835	26.6	2.029
5/21/2004	16:30:00	2850	26.6	2.02
5/21/2004	16:45:00	2865	26.6	2.009
5/21/2004	17:00:00	2880	26.61	1.999
5/21/2004	17:15:00	2895	26.6	1.988
5/21/2004	17:30:00	2910	26.6	1.975
5/21/2004	17:45:00	2925	26.61	1.965
5/21/2004	18:00:00	2940	26.61	1.957

Key West Tide Data

Verified Hourly Water Level Data (W2)

```
Station    --   Unique seven character identifier for the station
Date Time  --   Date and time the data were collected by the DCP
WL_Value   --   Water level height
Sigma      --   Standard deviation of 1 second samples used to
                compute the water level height
I          --   A flag that indicates that the water level value
                has been inferred.
L          --   A flag that when set to 1 indicates that either the
                maximum or minimum expected water level height limit
                was exceeded.
```

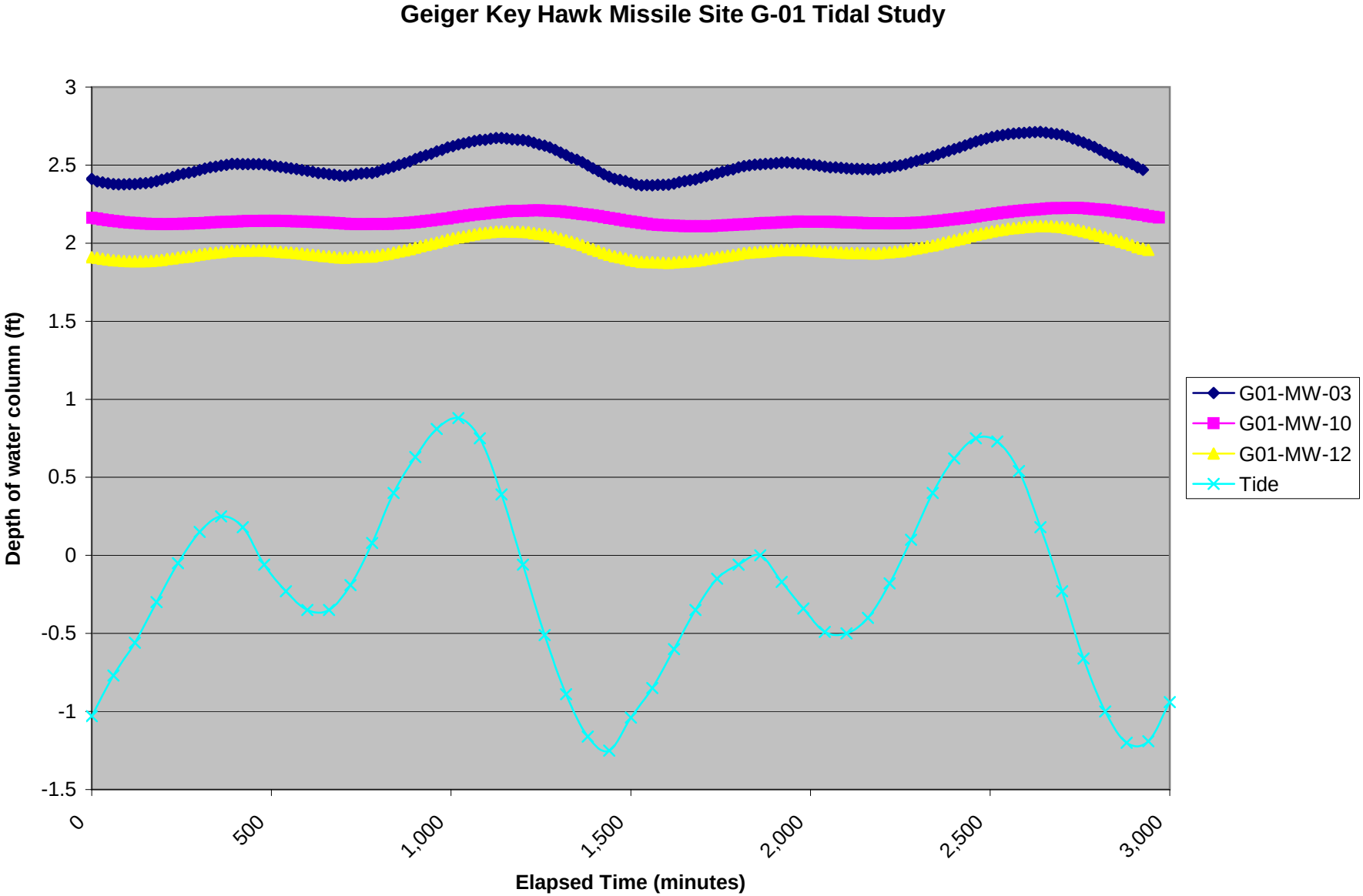
Data are in Feet above MSL
Times are on Local Standard Time (LST)

8724580 KEY WEST , FL from 20040519 to 20040521
Click HERE for further station information.

Station	Date	Time		WL	Sigma	I	L
8724580	5/19/2004	0:00		0.05	0.07	0	0
8724580	5/19/2004	1:00		-0.15	0.04	0	0
8724580	5/19/2004	2:00		-0.32	0.04	0	0
8724580	5/19/2004	3:00		-0.33	0.03	0	0
8724580	5/19/2004	4:00		-0.24	0 0		
8724580	5/19/2004	5:00		-0.02	0 0		
8724580	5/19/2004	6:00		0.27	0.05	0	0
8724580	5/19/2004	7:00		0.54	0.05	0	0
8724580	5/19/2004	8:00		0.76	0.06	0	0
8724580	5/19/2004	9:00		0.96	0	1	0
8724580	5/19/2004	10:00		0.94	0.06	0	0
8724580	5/19/2004	11:00		0.71	0.08	0	0
8724580	5/19/2004	12:00		0.29	0.05	0	0
8724580	5/19/2004	13:00		-0.2	0.04	0	0
8724580	5/19/2004	14:00		-0.64	0.08	0	0
8724580	5/19/2004	15:00		-0.96	0.05	0	0
8724580	5/19/2004	16:00		-1.11	0.05	0	0
8724580	5/19/2004	17:00	0	-1.03	0.04	0	0
8724580	5/19/2004	18:00	60	-0.77	0.06	0	0
8724580	5/19/2004	19:00	120	-0.56	0.04	0	0
8724580	5/19/2004	20:00	180	-0.3	0.06	0	0
8724580	5/19/2004	21:00	240	-0.05	0.07	0	0
8724580	5/19/2004	22:00	300	0.15	0.05	0	0
8724580	5/19/2004	23:00	360	0.25	0.04	0	0
8724580	5/20/2004	0:00	420	0.18	0.03	0	0
8724580	5/20/2004	1:00	480	-0.06	0.03	0	0
8724580	5/20/2004	2:00	540	-0.23	0.03	0	0
8724580	5/20/2004	3:00	600	-0.35	0.03	0	0
8724580	5/20/2004	4:00	660	-0.35	0.02	0	0
8724580	5/20/2004	5:00	720	-0.19	0.02	0	0

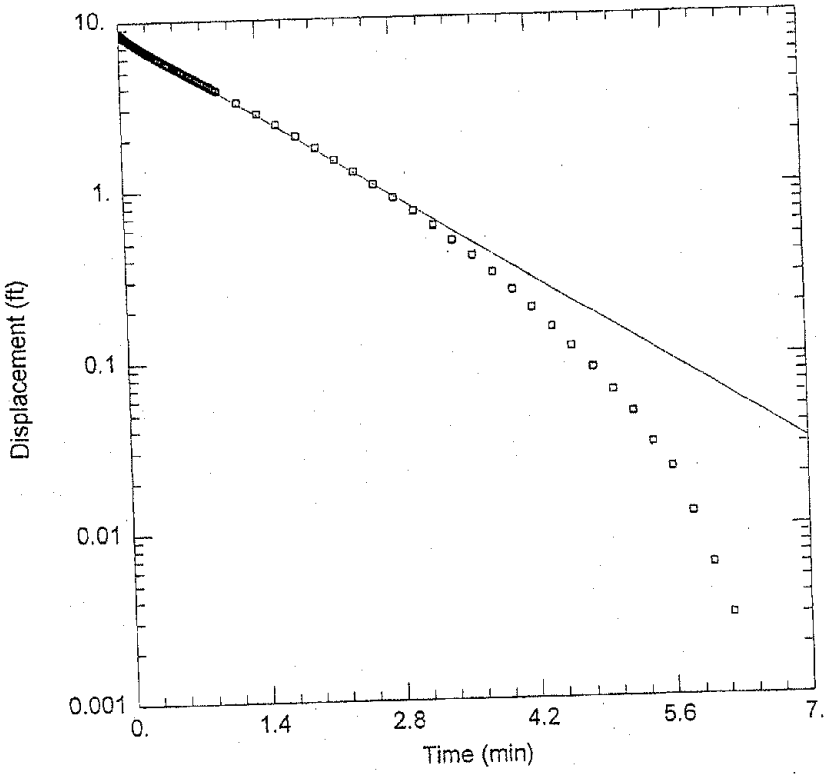
Key West Tide Data

8724580	5/20/2004	6:00	780	0.08	0.02	0	0
8724580	5/20/2004	7:00	840	0.4	0.06	0	0
8724580	5/20/2004	8:00	900	0.63	0.03	0	0
8724580	5/20/2004	9:00	960	0.81	0.02	0	0
8724580	5/20/2004	10:00	1020	0.88	0.02	0	0
8724580	5/20/2004	11:00	1080	0.75	0.04	0	0
8724580	5/20/2004	12:00	1140	0.39	0.02	0	0
8724580	5/20/2004	13:00	1200	-0.06	0.04	0	0
8724580	5/20/2004	14:00	1260	-0.51	0.03	0	0
8724580	5/20/2004	15:00	1320	-0.89	0.02	0	0
8724580	5/20/2004	16:00	1380	-1.16	0.02	0	0
8724580	5/20/2004	17:00	1440	-1.25	0.01	0	0
8724580	5/20/2004	18:00	1500	-1.04	0.03	0	0
8724580	5/20/2004	19:00	1560	-0.85	0.02	0	0
8724580	5/20/2004	20:00	1620	-0.6	0.04	0	0
8724580	5/20/2004	21:00	1680	-0.35	0.04	0	0
8724580	5/20/2004	22:00	1740	-0.15	0.05	0	0
8724580	5/20/2004	23:00	1800	-0.06	0.04	0	0
8724580	5/21/2004	0:00	1860	0	0.02	0	0
8724580	5/21/2004	1:00	1920	-0.17	0.03	0	0
8724580	5/21/2004	2:00	1980	-0.34	0.03	0	0
8724580	5/21/2004	3:00	2040	-0.49	0.03	0	0
8724580	5/21/2004	4:00	2100	-0.5	0.02	0	0
8724580	5/21/2004	5:00	2160	-0.4	0.02	0	0
8724580	5/21/2004	6:00	2220	-0.18	0.03	0	0
8724580	5/21/2004	7:00	2280	0.1	0.07	0	0
8724580	5/21/2004	8:00	2340	0.4	0.06	0	0
8724580	5/21/2004	9:00	2400	0.62	0.05	0	0
8724580	5/21/2004	10:00	2460	0.75	0.06	0	0
8724580	5/21/2004	11:00	2520	0.73	0.09	0	0
8724580	5/21/2004	12:00	2580	0.54	0	0	
8724580	5/21/2004	13:00	2640	0.18	0	0	
8724580	5/21/2004	14:00	2700	-0.23	0.06	0	0
8724580	5/21/2004	15:00	2760	-0.66	0.08	0	0
8724580	5/21/2004	16:00	2820	-1	0.07	0	0
8724580	5/21/2004	17:00	2880	-1.2	0	0	
8724580	5/21/2004	18:00	2940	-1.19	0.04	0	0
8724580	5/21/2004	19:00	3000	-0.94	0.05	0	0
8724580	5/21/2004	20:00	3060	-0.73	0.04	0	0
8724580	5/21/2004	21:00	3120	-0.48	0.06	0	0
8724580	5/21/2004	22:00	3180	-0.25	0.05	0	0
8724580	5/21/2004	23:00	3240	-0.11	0.04	0	0


Geiger Key Hawk Missile Site G-01 Tidal Study
Depth of water column (ft)
3
2.5
2
1.5
1
0.5
0
-0.5
-1
-1.5
0
500
1,000
1,500
2,000
2,500
3,000
Elapsed Time (minutes)
G01-MW-03
G01-MW-10
G01-MW-12
Tide

APPENDIX F

SLUG TEST DATA



SLUG TEST RESULTS FOR G01-MW-1A

Data Set: M:\Navy\G01-MW-1A.aqt
Date: 01/08/02
Time: 15:42:26

PROJECT INFORMATION

Company: BBL
Client: Hawk Sites
Project: 880.26.03
Test Location: Key West NAS
Test Well: G01-MW-1A
Test Date: 11/14/01

AQUIFER DATA

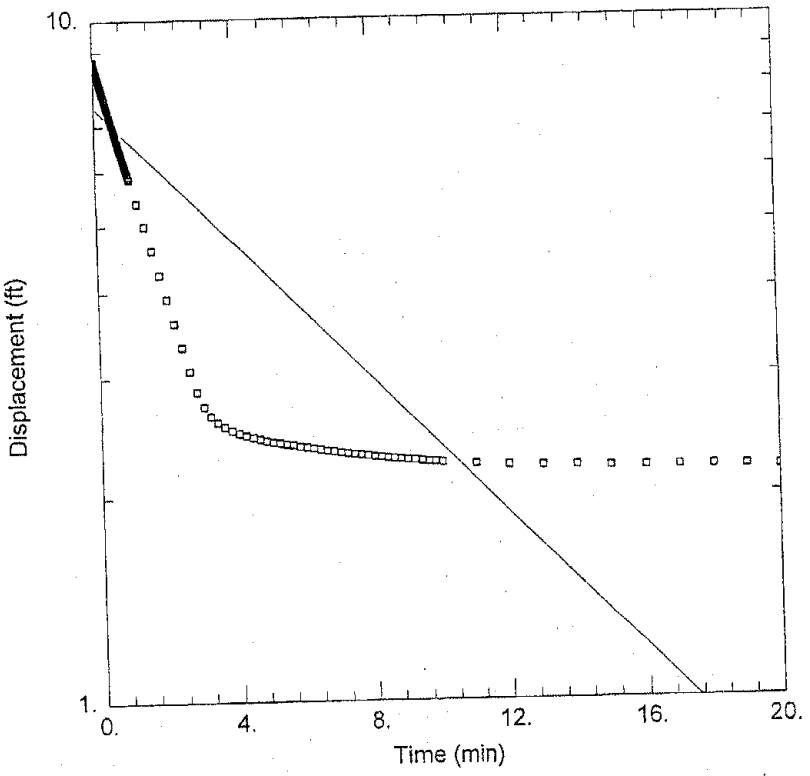
Saturated Thickness: 36.25 ft
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (G01-MW-1A)

Initial Displacement: 8.599 ft
Wellbore Radius: 0.33 ft
Screen Length: 5. ft
Gravel Pack Porosity: 0.2
Casing Radius: 0.083 ft
Well Skin Radius: 0.33 ft
Total Well Penetration Depth: 21.96 ft

SOLUTION

Aquifer Model: Unconfined
K = 8.879 ft/day
Solution Method: Bouwer-Rice
y0 = 8.332 ft



SLUG TEST RESULTS FOR G01-MW-2

Data Set: M:\Navy\G01-MW-2.aqt
Date: 01/08/02
Time: 17:00:20

PROJECT INFORMATION

Company: BBL
Client: Hawk Sites
Project: 880.26.03
Test Location: Key West NAS
Test Well: G01-MW-2
Test Date: 11/14/01

AQUIFER DATA

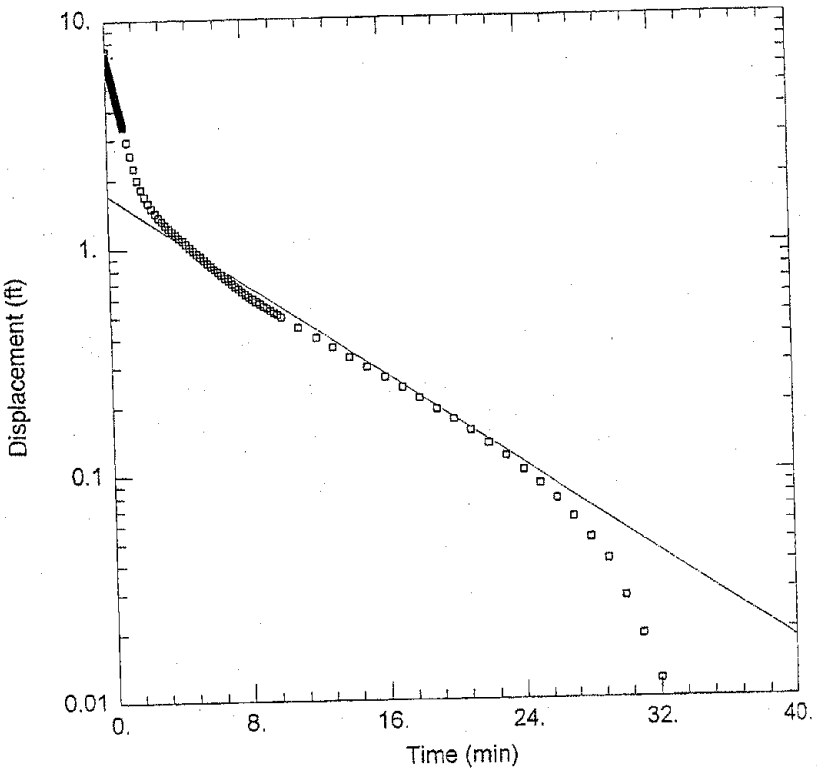
Saturated Thickness: 36.95 ft
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (G01-MW-2)

Initial Displacement: 8.707 ft
Wellbore Radius: 0.33 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.2
Casing Radius: 0.083 ft
Well Skin Radius: 0.33 ft
Total Well Penetration Depth: 7.97 ft

SOLUTION

Aquifer Model: Unconfined
K = 0.6036 ft/day
Solution Method: Bouwer-Rice
y0 = 7.451 ft



SLUG TEST RESULTS FOR G01-MW-3

Data Set: M:\Navy\G01-MW-3.aqt
Date: 01/08/02
Time: 17:03:17

PROJECT INFORMATION

Company: BBL
Client: Hawk Sites
Project: 880.26.03
Test Location: Key West NAS
Test Well: G01-MW-3
Test Date: 11/14/01

AQUIFER DATA

Saturated Thickness: 37.82 ft
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (G01-MW-3)

Initial Displacement: 7.16 ft
Wellbore Radius: 0.33 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.25
Casing Radius: 0.083 ft
Well Skin Radius: 0.33 ft
Total Well Penetration Depth: 9.82 ft

SOLUTION

Aquifer Model: Unconfined
K = 0.7384 ft/day
Solution Method: Bouwer-Rice
y0 = 1.711 ft